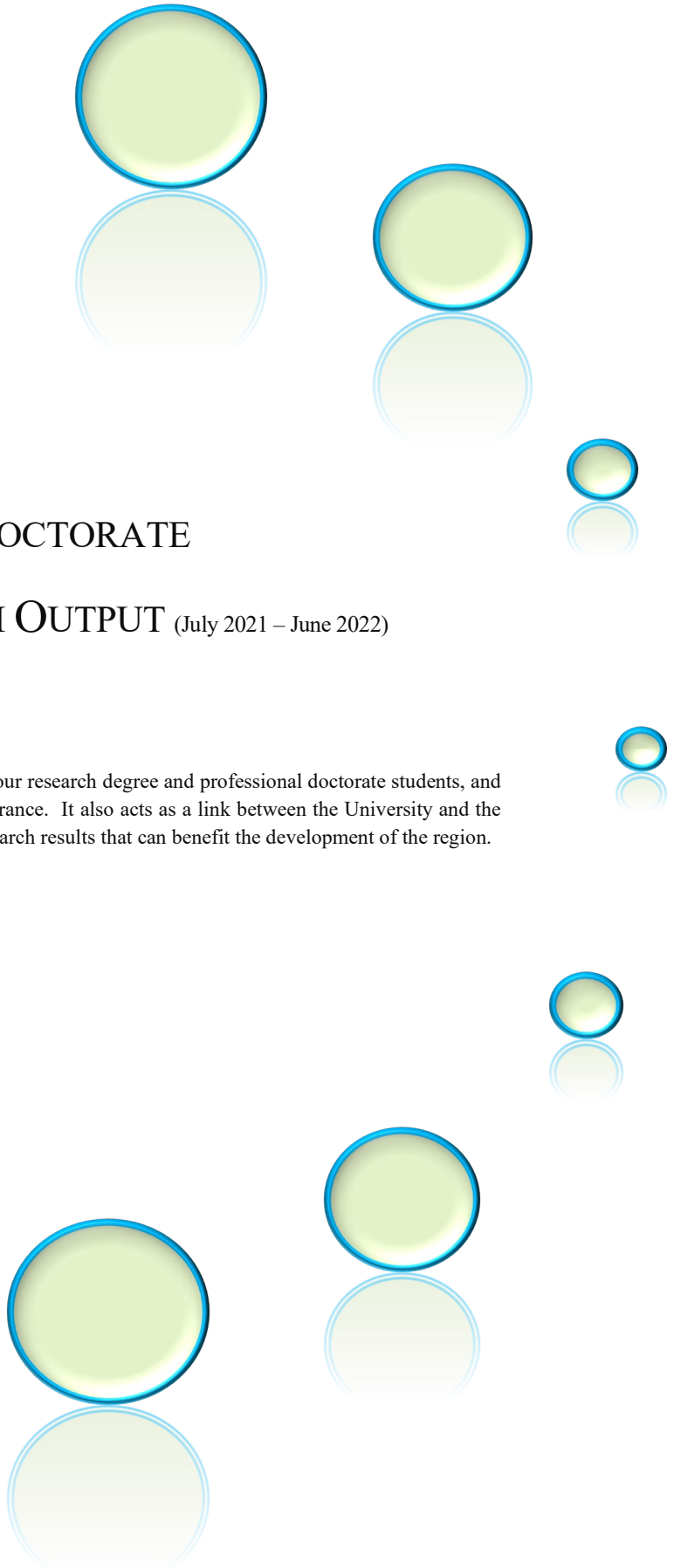




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# RESEARCH DEGREE AND PROFESSIONAL DOCTORATE STUDENTS' RESEARCH OUTPUT (July 2021 – June 2022)

This report summarizes the research outputs of our research degree and professional doctorate students, and serves to recognize their hard work and perseverance. It also acts as a link between the University and the community, as it demonstrates the excellent research results that can benefit the development of the region.



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## Summary of Research Output Produced by PhD Students in 2021-2022

| Departments   | Number of students who have produced publications | Category of Publications                 |                      |                   |  |  |                   | Total No of Publications |
|---|---|--|----------------------|-------------------|--|--|-------------------|--------------------------|
|   |   | Scholarly books, monographs and chapters | Journal publications | Conference papers | Creative and literary works, consulting reports and case studies | Patents, agreements, assignments and companies | All other outputs |                          |
| <b>PhD</b>  |   |  |                      |                   |  |  |                   |                          |
| <b>College of Business</b>                            |   |  |                      |                   |  |  |                   |                          |
| Department of Accountancy                             | 14  | -  | 12                   | 11                | -  | -  | 4                 | 27                       |
| Department of Economics and Finance                   | 19  | -  | 6                    | 4                 | -  | -  | 11                | 21                       |
| Department of Information Systems                     | 38  | -  | 23                   | 11                | -  | -  | 14                | 48                       |
| Department of Management                              | 2   | -  | 1                    | 2                 | -  | -  | -                 | 3                        |
| Department of Management Sciences                     | 10  | -  | 5                    | 1                 | -  | -  | 7                 | 13                       |
| Department of Marketing                               | 8   | 5  | 8                    | 2                 | -  | -  | 1                 | 16                       |
| <b>College of Engineering</b>                         |   |  |                      |                   |  |  |                   |                          |
| Department of Advanced Design and Systems Engineering | 43  | -  | 60                   | 12                | -  | -  | 13                | 85                       |
| Department of Architecture and Civil Engineering      | 126   | 7  | 244                  | 18                | -  | 1  | 44                | 314                      |
| Department of Biomedical Engineering                  | 117   | -  | 111                  | 17                | -  | 5  | 35                | 168                      |
| Department of Computer Science                        | 186   | -  | 195                  | 99                | -  | 2  | 43                | 339                      |
| Department of Electrical Engineering                  | 130   | 2  | 137                  | 67                | -  | 9  | 38                | 253                      |
| Department of Materials Science and Engineering       | 131   | 2  | 225                  | -                 | -  | 8  | 31                | 266                      |
| Department of Mechanical Engineering                  | 123   | -  | 190                  | 5                 | -  | 5  | 47                | 247                      |
| <b>College of Liberal Arts and Social Sciences</b>    |   |  |                      |                   |  |  |                   |                          |
| Department of Asian and International Studies         | 6   | 3  | 1                    | 2                 | -  | -  | 3                 | 9                        |
| Department of Chinese and History                     | 9   | 1  | 10                   | 5                 | -  | -  | 7                 | 23                       |
| Department of English                                 | 8   | 2  | 3                    | 5                 | -  | -  | 4                 | 14                       |
| Department of Linguistics and Translation             | 36  | -  | 18                   | 26                | 1  | -  | 13                | 58                       |

| Departments   | Number of students who have produced publications | Category of Publications                 |                      |                   |  |  |                   | Total No of Publications |
|---|---|--|----------------------|-------------------|--|--|-------------------|--------------------------|
|   |   | Scholarly books, monographs and chapters | Journal publications | Conference papers | Creative and literary works, consulting reports and case studies | Patents, agreements, assignments and companies | All other outputs |                          |
| Department of Media and Communication                               | 34  | -  | 37                   | 49                | -  | -  | 10                | 96                       |
| Department of Public Policy   | 39  | 1  | 42                   | 11                | 3  | -  | 6                 | 63                       |
| Department of Social and Behavioural Sciences                       | 33  | 3  | 61                   | 4                 | -  | -  | 8                 | 76                       |
| <b>College of Science</b>   |   |  |                      |                   |  |  |                   |                          |
| Department of Chemistry   | 155   | -  | 210                  | 13                | 1  | -  | 28                | 252                      |
| Department of Mathematics   | 17  | -  | 22                   | 2                 | -  | 1  | 4                 | 29                       |
| Department of Physics   | 61  | -  | 92                   | 1                 | -  | 1  | 16                | 110                      |
| <b>College, Schools and Academic Departments</b>                    |   |  |                      |                   |  |  |                   |                          |
| School of Creative Media  | 60  | 7  | 19                   | 39                | 37   | 3  | 26                | 131                      |
| School of Data Science  | 45  | -  | 74                   | 10                | -  | 3  | 13                | 100                      |
| School of Energy and Environment                                    | 89  | 4  | 189                  | 3                 | -  | 4  | 35                | 235                      |
| School of Law   | 8   | -  | 5                    | 1                 | 1  | -  | 5                 | 12                       |
| <b>Jockey Club College of Veterinary Medicine and Life Sciences</b> |   |  |                      |                   |  |  |                   |                          |
| Department of Biomedical Sciences                                   | 82  | -  | 87                   | -                 | -  | 4  | 21                | 112                      |
| Department of Infectious Diseases and Public Health                 | 29  | -  | 64                   | 3                 | -  | -  | -                 | 67                       |
| Department of Neuroscience  | 11  | -  | 11                   | 1                 | -  | -  | 1                 | 13                       |
| Department of Veterinary Clinical Sciences                          | 1   | -  | 1                    | 2                 | -  | -  | -                 | 3                        |
| Jockey Club College of Veterinary Medicine and Life Sciences        | 27  | 2  | 43                   | 2                 | -  | -  | 8                 | 55                       |
| <b>Sub-total</b>  | 1697  | 39                                       | 2206                 | 428               | 43   | 46   | 496               | 3258                     |
| <b>Grand Total</b>  | 1697  | 39                                       | 2206                 | 428               | 43   | 46   | 496               | 3258                     |

## Summary of Research Output Produced by MPhil Students in 2021-2022

| Departments  | Number of students who have produced publications | Category of Publications                 |                      |                   |  |  |                   | Total No of Publications |
|--|---|--|----------------------|-------------------|--|--|-------------------|--------------------------|
|  |   | Scholarly books, monographs and chapters | Journal publications | Conference papers | Creative and literary works, consulting reports and case studies | Patents, agreements, assignments and companies | All other outputs |                          |
| <b>MPhil</b>                                       |   |  |                      |                   |  |  |                   |                          |
| <b>College of Business</b>                         |   |  |                      |                   |  |  |                   |                          |
| Department of Economics and Finance                | 2   | -  | -                    | -                 | -  | -  | 2                 | 2                        |
| Department of Management Sciences                  | 1   | -  | -                    | -                 | -  | -  | 1                 | 1                        |
| <b>College of Engineering</b>                      |   |  |                      |                   |  |  |                   |                          |
| Department of Biomedical Engineering               | 2   | -  | 15                   | -                 | -  | -  | 1                 | 16                       |
| Department of Computer Science                     | 5   | -  | 3                    | 3                 | -  | -  | 2                 | 8                        |
| Department of Electrical Engineering               | 4   | -  | 2                    | -                 | -  | 2  | 2                 | 6                        |
| Department of Materials Science and Engineering    | 1   | -  | 4                    | -                 | -  | -  | -                 | 4                        |
| <b>College of Liberal Arts and Social Sciences</b> |   |  |                      |                   |  |  |                   |                          |
| Department of Social and Behavioural Sciences      | 1   | -  | -                    | -                 | -  | -  | 1                 | 1                        |
| <b>College, Schools and Academic Departments</b>   |   |  |                      |                   |  |  |                   |                          |
| School of Data Science                             | 1   | 1  | -                    | -                 | -  | -  | 1                 | 2                        |
| School of Energy and Environment                   | 1   | -  | 2                    | -                 | -  | 4  | -                 | 6                        |
| <b>Sub-total</b>                                   | <b>18</b>   | <b>1</b>                                 | <b>26</b>            | <b>3</b>          | <b>0</b>   | <b>6</b>                                       | <b>10</b>         | <b>46</b>                |
| <b>Grand Total</b>                                 | <b>18</b>   | <b>1</b>                                 | <b>26</b>            | <b>3</b>          | <b>0</b>   | <b>6</b>                                       | <b>10</b>         | <b>46</b>                |

## Summary of Research Output Produced by Professional Doctorate Students in 2021-2022

| Departments   | Number of students who have produced publications | Category of Publications                 |                      |                   |  |  |                   | Total No of Publications |
|---|---|--|----------------------|-------------------|--|--|-------------------|--------------------------|
|   |   | Scholarly books, monographs and chapters | Journal publications | Conference papers | Creative and literary works, consulting reports and case studies | Patents, agreements, assignments and companies | All other outputs |                          |
| <b>Professional Doctorate</b>                         |   |  |                      |                   |  |  |                   |                          |
| <b>College of Business</b>                            |   |  |                      |                   |  |  |                   |                          |
| College of Business                                   | 29  | -  | 1                    | -                 | -  | -  | 28                | 29                       |
| <b>College of Engineering</b>                         |   |  |                      |                   |  |  |                   |                          |
| Department of Advanced Design and Systems Engineering | 5   | -  | 2                    | -                 | -  | -  | 3                 | 5                        |
| <b>College, Schools and Academic Departments</b>      |   |  |                      |                   |  |  |                   |                          |
| School of Law   | 10  | -  | 1                    | -                 | -  | -  | 9                 | 10                       |
| <b>Sub-total</b>                                      | 44  | 0  | 4                    | 0                 | 0  | 0  | 40                | 44                       |
| <b>Grand Total</b>                                    | 44  | 0  | 4                    | 0                 | 0  | 0  | 40                | 44                       |

## Section A: Publications of PhD Students

| College of Business                  |   |
|--------------------------------------|---|
| DEPARTMENT OF ACCOUNTANCY            |   |
| Journal publications                 |   |
| <b>CHEN Xin</b>                      | # <u>CHEN Xin</u> , "Lunar eclipses, analyst sentiment, and earnings forecasts: Evidence from China", <i>International Review of Economics and Finance</i> , 76, 15 August 2021, pp 1007-1024, doi: <a href="https://doi.org/10.1016/j.iref.2021.08.009">https://doi.org/10.1016/j.iref.2021.08.009</a> .   |
| <b>DAK-ADZAKLO Cephassimon Peter</b> | <u>ASAMOAH Joseph Maxwell</u> , # <u>DAK-ADZAKLO Cephassimon Peter</u> , # <u>OFOSU Emmanuel</u> , "Institutional investors distraction and debt choice", <i>Managerial Finance</i> , 48(5), 18 February 2022, doi: <a href="https://doi.org/10.1108/MF-12-2021-0601">https://doi.org/10.1108/MF-12-2021-0601</a> .   |
| <b>HE Chang</b>                      | <u>TIAN Gaoliang</u> , <u>BEI Chengcheng</u> , # <u>HE Chang</u> , <u>SI Yi</u> , "投资者情绪与公司避税行为", <i>系统工程理论与实践</i> , 41(11), November 2021, pp 2806-2821, doi: <a href="https://doi.org/10.12011/SETP2020-2650">https://doi.org/10.12011/SETP2020-2650</a> .  |
| <b>HUANG Li</b>                      | # <u>HUANG Li</u> , <u>LI Oliver Zhen</u> , <u>YI Yang</u> , "Government disclosure in influencing people's behaviors during a public health emergency", <i>Humanities and Social Sciences Communications</i> , 8, 01 December 2021, doi: <a href="https://doi.org/10.1057/s41599-021-00986-5">https://doi.org/10.1057/s41599-021-00986-5</a> .<br># <u>HUANG Li</u> , <u>LI Oliver Zhen</u> , <u>WANG Baiqiang</u> , <u>ZHANG Zilong</u> , "Individualism and the fight against COVID-19", <i>Humanities and Social Sciences Communications</i> , 9, 06 April 2022, doi: <a href="https://doi.org/10.1057/s41599-022-01124-5">https://doi.org/10.1057/s41599-022-01124-5</a> .   |
| <b>LIU Yiye</b>                      | <u>HU Gang</u> , # <u>LIU Yiye</u> , <u>WANG Jacqueline Wenjie</u> , <u>ZHOU Gaoguang</u> , <u>ZHU Xindong</u> , "Insider ownership and stock price crash risk around the globe", <i>Pacific-Basin Finance Journal</i> , 72, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.pacfin.2022.101714">https://doi.org/10.1016/j.pacfin.2022.101714</a> .<br><u>KIM Jeong Bon</u> , # <u>LIU Yiye</u> , <u>SHI Haina</u> , <u>ZHU Xindong</u> , "The dark side of mandatory IFRS adoption: Does IFRS adoption deteriorate accrual reliability?", <i>International Journal of Accounting</i> , 56(4), 30 August 2021, doi: <a href="https://doi.org/10.1142/S1094406021500165">https://doi.org/10.1142/S1094406021500165</a> .  |
| <b>OFOSU Emmanuel</b>                | <u>ASAMOAH Joseph Maxwell</u> , # <u>DAK-ADZAKLO Cephassimon Peter</u> , # <u>OFOSU Emmanuel</u> , "Institutional investors distraction and debt choice", <i>Managerial Finance</i> , 48(5), 18 February 2022, doi: <a href="https://doi.org/10.1108/MF-12-2021-0601">https://doi.org/10.1108/MF-12-2021-0601</a> .   |
| <b>TIAN Haowen</b>                   | <u>WAN Zhao</u> , # <u>TIAN Haowen</u> , "The effect of the COVID-19 pandemic on information disclosure: Evidence from China", <i>Economics Letters</i> , 20 June 2022, doi: <a href="https://doi.org/10.1016/j.econlet.2022.110678">https://doi.org/10.1016/j.econlet.2022.110678</a> .<br># <u>TIAN Haowen</u> , <u>CHEN Wen</u> , <u>KIM Jeong Bon</u> , <u>WU Haibin</u> , "The spillover effect of shareholder activism: Evidence on firm reporting", <i>Journal of Accounting and Public Policy</i> , 09 April 2022, doi: <a href="https://doi.org/10.1016/j.jaccpubpol.2022.106980">https://doi.org/10.1016/j.jaccpubpol.2022.106980</a> .<br># <u>TIAN Haowen</u> , <u>TIAN Gaoliang</u> , "Corporate sustainability and trade credit financing: Evidence from environmental, social, and governance ratings", <i>Corporate Social Responsibility and Environmental Management</i> , 28 June 2022, doi: <a href="https://doi.org/10.1002/csr.2335">https://doi.org/10.1002/csr.2335</a> . |
| <b>ZHANG Ting</b>                    | # <u>ZHANG Ting</u> , <u>TIAN Gaoliang</u> , <u>FENG Hua</u> , "Role of stock price informativeness in shaping non-GAAP earnings disclosures", <i>Asia-Pacific Journal of Accounting and Economics</i> , 06 January 2022, doi: <a href="https://doi.org/10.1080/16081625.2021.2020665">https://doi.org/10.1080/16081625.2021.2020665</a> .  |
| <b>ZHAO Lei</b>                      | <u>LIU Qiliang</u> , # <u>ZHAO Lei</u> , <u>TIAN Li</u> , <u>XIE Jian</u> , "Close auditor-client relationships: adverse effects and the potential mitigating role of partner rotation", <i>Managerial Auditing Journal</i> , 36(6), 17 August 2021, pp 889-919, doi: <a href="https://doi.org/10.1108/MAJ-07-2020-2770">https://doi.org/10.1108/MAJ-07-2020-2770</a> .   |
| Conference papers                    |   |
| <b>DAK-ADZAKLO Cephassimon Peter</b> | <u>XEDE James</u> , # <u>DAK-ADZAKLO Cephassimon Peter</u> , # <u>OFOSU Emmanuel</u> , <u>ADZA Solomon</u> , "The Real Effect of Competition Laws: International Evidence", <i>2022 American Economic Association Annual Meeting</i> , Virtual, Boston, United States, 07-09 January 2022.  |



Section A: Publications of PhD Students

|  |   |
|--|---|
|  | # <a href="#">DAK-ADZAKLO Cephass Simon Peter</a> , <a href="#">WONG Man Kong</a> , # <a href="#">OFOSU Emmanuel</a> , "Product Market Threats and Auditor Choice", <i>The Canadian Academic Accounting Association (CAAA) Annual Conference 2022</i> , Virtual, Saskatoon, Canada, 09-11 June 2022.  |
|  | # <a href="#">DAK-ADZAKLO Cephass Simon Peter</a> , <a href="#">WONG Man Kong</a> , "Corporate governance reforms, societal trust and corporate financial policies", <i>2021 Accounting and Finance Association of Australia and New Zealand Annual Conference (AFAANZ 2021)</i> , Virtual, 05-07 July 2021.  |
|  | # <a href="#">DAK-ADZAKLO Cephass Simon Peter</a> , <a href="#">WONG Man Kong</a> , "Corporate governance reforms, societal trust and corporate financial policies", <i>105th Annual Meeting of the American Accounting Association (AAA 2021)</i> , Virtual, United States, 02-05 August 2021.   |
| <b>LAU Sze Man</b>                         | # <a href="#">LAU Sze Man</a> , "The effect of labor market immobility on syndicated-loan structures", <i>44th Annual Congress of the European Accounting Association (EAA 2022)</i> , Bergen, Bergen, Norway, 11-13 May 2022.  |
|  | # <a href="#">LAU Sze Man</a> , "The effect of labor market immobility on syndicated-loan structures", <i>Canadian Academic Accounting Association Annual Conference 2022</i> , 10-11 June 2022.  |
|  | # <a href="#">LAU Sze Man</a> , "The effect of labor market immobility on syndicated-loan structures", <i>Guangdong-Hong Kong-Macao University Alliance for Accounting (GHM-UAA) The 2nd Accounting Summit Forum &amp; 2021 Annual Research Conference</i> , 10-10 December 2021.   |
|  | # <a href="#">LAU Sze Man</a> , "The effect of labor market immobility on syndicated-loan structures", <i>2022 Asian Finance (AsianFA) Annual Conference</i> , 27 June 2022.  |
| <b>OFOSU Emmanuel</b>                      | <a href="#">XEDE James</a> , # <a href="#">DAK-ADZAKLO Cephass Simon Peter</a> , # <a href="#">OFOSU Emmanuel</a> , <a href="#">ADZA Solomon</a> , "The Real Effect of Competition Laws: International Evidence", <i>2022 American Economic Association Annual Meeting</i> , Virtual, Boston, United States, 07-09 January 2022.  |
|  | # <a href="#">DAK-ADZAKLO Cephass Simon Peter</a> , <a href="#">WONG Man Kong</a> , # <a href="#">OFOSU Emmanuel</a> , "Product Market Threats and Auditor Choice", <i>The Canadian Academic Accounting Association (CAAA) Annual Conference 2022</i> , Virtual, Saskatoon, Canada, 09-11 June 2022.  |
| <b>YEUNG Hau Yi</b>                        | <a href="#">WONG Man Kong</a> , # <a href="#">YEUNG Hau Yi</a> , "Does Relative Societal Trust Influence Audit Quality? Evidence from Multinational Group Audits", <i>The Canadian Academic Accounting Association (CAAA) Annual Conference 2022</i> , Virtual, Saskatoon, Canada, 09-11 June 2022.   |
|  | <a href="#">WONG Man Kong</a> , # <a href="#">YEUNG Hau Yi</a> , "Relative Societal Trust and Multinational Group Audits", <i>12th International Conference of the Japanese Accounting Review (TJAR)</i> , Online, Kobe, Japan, 06-06 November 2021.  |
|  | <a href="#">WONG Man Kong</a> , # <a href="#">YEUNG Hau Yi</a> , "Relative Societal Trust and Multinational Group Audits", <i>China Accounting and Finance Review (CAFR) 2021 Virtual Annual Conference</i> , Virtual, Hong Kong, 17-18 September 2021.   |
| <b>All other outputs</b>                   |   |
| <b>TANG Yuyan</b>                          | # <a href="#">TANG Yuyan</a> , <i>Two Essays on Short Selling and Private Information Flow</i> , PhD Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 28 July 2021.   |
| <b>XU Dongling</b>                         | # <a href="#">XU Dongling</a> , <i>Two Essays about Contracts with Suppliers: Evidence from Purchase Obligations</i> , PhD Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 11 May 2022.  |
| <b>XU Yunqi</b>                            | # <a href="#">XU Yunqi</a> , <i>Shareholder-lender Mergers and Capital Expenditure Forecasts</i> , PhD Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 27 April 2022.  |
| <b>ZHANG Ting</b>                          | # <a href="#">ZHANG Ting</a> , <i>Research on the Role of Supplier Dependence upon Major Customers in Shaping Non-GAAP Earnings Disclosure</i> , PhD Thesis, Department of Accountancy, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.   |
| <b>DEPARTMENT OF ECONOMICS AND FINANCE</b> |   |
| <b>Journal publications</b>                |   |
| <b>ADASI MANU Sylvester</b>                | <a href="#">OPOKU Eric Evans Osei</a> , <a href="#">KUFUOR Nana Kwabena</a> , # <a href="#">ADASI MANU Sylvester</a> , "Gender, electricity access, renewable energy consumption and energy efficiency", <i>Technological Forecasting and Social Change</i> , 173, 24 August 2021, doi: <a href="https://doi.org/10.1016/j.techfore.2021.121121">https://doi.org/10.1016/j.techfore.2021.121121</a> . |

## Section A: Publications of PhD Students

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| <b>BEI Zeyun</b>                   | ZHOU Yinggang, #BEI Zeyun, "中国国债期货与现货市场间的动态价格发现与不对称波动性溢出", <i>计量经济学报</i> , 1(4), 27 October 2021, pp 814-837.  |
| <b>CHEN Xi</b>                     | #CHEN Xi, WANG Junbo, WU Chunchi, "Jump and volatility risk in the cross-section of corporate bond returns", <i>Journal of Financial Markets</i> , 14 April 2022, doi: <a href="https://doi.org/10.1016/j.finmar.2022.100733">https://doi.org/10.1016/j.finmar.2022.100733</a> .                           |
| <b>ONWACHUKWU Chinedu Increase</b> | #ONWACHUKWU Chinedu Increase, YAN Kit Ming Isabel, #TU Kerui, "The causal effect of trade liberalization on the environment", <i>Journal of Cleaner Production</i> , 318, 11 August 2021, doi: <a href="https://doi.org/10.1016/j.jclepro.2021.128615">https://doi.org/10.1016/j.jclepro.2021.128615</a> . |
| <b>TU Kerui</b>                    | #ONWACHUKWU Chinedu Increase, YAN Kit Ming Isabel, #TU Kerui, "The causal effect of trade liberalization on the environment", <i>Journal of Cleaner Production</i> , 318, 11 August 2021, doi: <a href="https://doi.org/10.1016/j.jclepro.2021.128615">https://doi.org/10.1016/j.jclepro.2021.128615</a> . |
| <b>YAN Han</b>                     | QIANG Haofan, #YAN Han, ZHANG Wencheng, XIAO Kangkang, "国有风险资本与企业融资约束: 如愿以偿还是事与愿违?", <i>财经研究</i> , 47(11), November 2021, pp 154-169, doi: <a href="https://doi.org/10.16538/j.cnki.jfe.20210813.303">https://doi.org/10.16538/j.cnki.jfe.20210813.303</a> .   |
| <b>YANG Lihai</b>                  | 郑振龙, #YANG Lihai, 陈蓉, "方差风险、偏度风险与市场收益率的可预测性", <i>经济学(季刊)</i> , 22(3 (总第 88)), May 2022, pp 795-818, doi: <a href="https://doi.org/10.13821/j.cnki.ceq.2022.03.04">https://doi.org/10.13821/j.cnki.ceq.2022.03.04</a> .   |
| <b>Conference papers</b>           |  |
| <b>FAN Yueqi</b>                   | ZHANG Jing, #FAN Yueqi, LIU Ye, "Did Government Venture Capital Fund Innovative but Less Profitable companies? Evidence from China", <i>Academy of Management Annual Meeting Proceedings 2021</i> , Virtual, 29 July - 04 August 2021.   |
| <b>ZHOU Xunan</b>                  | HUANG Qianqian, #ZHOU Xunan, JIANG Feng, XUAN Yuhai, "Directors' Disaster Experience and Corporate Environmental Performance", <i>2022 Asian Finance (AsianFA) Annual Conference</i> , 27 June 2022.   |
|                                    | HUANG Qianqian, #ZHOU Xunan, JIANG Feng, XUAN Yuhai, "Directors' Disaster Experience and Corporate Environmental Performance", <i>The 4th Shanghai Financial Forefront Symposium</i> , 27 May 2022.  |
|                                    | HUANG Qianqian, JIANG Feng, XUAN Yuhai, #ZHOU Xunan, "Directors' Disaster Experience and Corporate Environmental Performance", <i>MFA 2022 Conference</i> , 10-12 March 2022.  |
| <b>All other outputs</b>           |  |
| <b>ADASI MANU Sylvester</b>        | #ADASI MANU Sylvester, <i>Essays on Social Networks and Bank Systemic Risk</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.  |
| <b>CHEN Zhenzhen</b>               | #CHEN Zhenzhen, <i>A Study on the Policy Effects of China's High-tech Enterprises Certification</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 29 September 2021.  |
| <b>CHENG Shuyi</b>                 | #CHENG Shuyi, <i>The Multiple Roles of Banks in Corporate Finance</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>CHENG Xu</b>                    | #CHENG Xu, <i>Two Essays on Chinese Stock Market</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 20 April 2022.   |
| <b>DU Bowen</b>                    | #DU Bowen, <i>Two Essays on Asset Return Predictability</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.   |
| <b>GUO Fei</b>                     | #GUO Fei, <i>A Study on the Efficacy of Fiscal Spending: Analyzing from Perspectives of Fiscal Decentralization, Hand-to-Mouth Consumers and Interregional Expenditure</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 06 July 2021.                  |
| <b>LIAN Ziyang</b>                 | #LIAN Ziyang, <i>Essays on Tail Risks and Volatility Timing</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 09 July 2021.   |
| <b>LIU Xiaotian</b>                | #LIU Xiaotian, <i>Two Essays on Institutional Ownership and Product Market Competition</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 06 May 2022.   |

Section A: Publications of PhD Students

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| <b>SHI Chang</b>                         | # <u>SHI Chang</u> , <i>Two Essays on Corporate Finance and Labor Markets</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 20 May 2022.  |
| <b>XU Jianfeng</b>                       | # <u>XU Jianfeng</u> , <i>State Dependence and the Term Structures of Risk Premia</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 22 June 2022.   |
| <b>ZHANG Weikang</b>                     | # <u>ZHANG Weikang</u> , <i>Three Essays on International Economics</i> , PhD Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 05 May 2022.  |
| <b>DEPARTMENT OF INFORMATION SYSTEMS</b> |  |
| <b>Journal publications</b>              |  |
| <b>CAO Fang</b>                          | # <u>CAO Fang</u> , <u>WANG Weiquan</u> , LIM Eric, LIU Xinmei, TAN Chee-Wee, "Do Social Dominance-Based Faultlines Help or Hurt Team Performance in Crowdsourcing Tournaments?", <i>Journal of Management Information Systems</i> , 39(1), 11 April 2022, pp 247-275, doi: <a href="https://doi.org/10.1080/07421222.2021.2023403">https://doi.org/10.1080/07421222.2021.2023403</a> .  |
| <b>CAO Qiang</b>                         | # <u>CAO Qiang</u> , CHENG Xian, <u>LIAO Shaoyi Stephen</u> , "A comparison study of topic modeling based literature analysis by using full texts and abstracts of scientific articles: a case of COVID-19 research", <i>Library Hi Tech</i> , 10 May 2022, doi: <a href="https://doi.org/10.1108/LHT-03-2022-0144">https://doi.org/10.1108/LHT-03-2022-0144</a> .   |
| <b>DONG Wei</b>                          | # <u>DONG Wei</u> , LEI Xiangxi, LIU Yongmei, "The Mediating Role of Patients' Trust Between Web-Based Health Information Seeking and Patients' Uncertainty in China: Cross-sectional Web-Based Survey", <i>Journal of Medical Internet Research</i> , 24(3), 11 March 2022, doi: <a href="https://doi.org/10.2196/25275">https://doi.org/10.2196/25275</a> .<br>ZHU Zhangxiang, LIU Jiawei, # <u>DONG Wei</u> , "Factors correlated with the perceived usefulness of online reviews for consumers: a meta-analysis of the moderating effects of product type", <i>Aslib Journal of Information Management</i> , 74(2), 23 November 2021, pp 265-288, doi: <a href="https://doi.org/10.1108/AJIM-02-2021-0054">https://doi.org/10.1108/AJIM-02-2021-0054</a> . |
| <b>GAN Qingqiu</b>                       | # <u>GAN Qingqiu</u> , <u>LAU Yiu Keung Raymond</u> , HONG Jin, "A critical review of blockchain applications to banking and finance: a qualitative thematic analysis approach", <i>Technology Analysis and Strategic Management</i> , 20 September 2021, doi: <a href="https://doi.org/10.1080/09537325.2021.1979509">https://doi.org/10.1080/09537325.2021.1979509</a> .   |
| <b>LI Jingwei</b>                        | # <u>LI Jingwei</u> , HUANG Wei, <u>SIA Choon Ling</u> , CHEN Zhuo, WU Tailai, WANG Qingnan, "Enhancing COVID-19 Epidemic Forecasting Accuracy by Combining Real-time and Historical Data from Multiple Internet-Based Sources: Analysis of Social Media Data, Online News Articles, and Search Queries", <i>JMIR Public Health and Surveillance</i> , 8(6), 01 June 2022, doi: <a href="https://doi.org/10.2196/35266">https://doi.org/10.2196/35266</a> .  |
| <b>LI Weixun</b>                         | # <u>LI Weixun</u> , <u>LEUNG Chung Man Alvin</u> , <u>YUE Wei Thoo</u> , "The grey areas of Internet use: secret affairs in cyberspace and religiosity", <i>Internet Research</i> , 32(1), 20 September 2021, pp 1-23, doi: <a href="https://doi.org/10.1108/INTR-04-2020-0218">https://doi.org/10.1108/INTR-04-2020-0218</a> .   |
| <b>LI Xiang</b>                          | WANG Yue, # <u>LI Xiang</u> , ZHANG Linda L., MO Daniel, "Configuring products with natural language: a simple yet effective approach based on text embeddings and multilayer perceptron", <i>International Journal of Production Research</i> , 31 July 2021, doi: <a href="https://doi.org/10.1080/00207543.2021.1957508">https://doi.org/10.1080/00207543.2021.1957508</a> .  |
| <b>LI Yangjun</b>                        | # <u>LI Yangjun</u> , CHEUNG Mei Kwan Christy, SHEN Xiaoliang, <u>LEE Kwok On Matthew</u> , "When Socialization Goes Wrong: Understanding the We-Intention to Participate in Collective Trolling in Virtual Communities", <i>Journal of the Association of Information Systems</i> , 23(3), 03 May 2022, pp 678-706, doi: <a href="https://doi.org/10.17705/1jais.00737">https://doi.org/10.17705/1jais.00737</a> .  |
| <b>LIU Yan</b>                           | LI Shaochi, # <u>LIU Yan</u> , ZHOU Guangquan, ZHANG Wenjuan, WEI Shengmei, HE Jiajia, <u>LIAO Shaoyi Stephen</u> , WEI Hang, "Pre-collapse femoral head necrosis treated by hip abduction: a computational biomechanical analysis", <i>Health Information Science and Systems</i> , 10, 14 May 2022, doi: <a href="https://doi.org/10.1007/s13755-022-00175-x">https://doi.org/10.1007/s13755-022-00175-x</a> .   |
| <b>LUO Bei</b>                           | LUO Xiao-Qin, YAN Ping, ZHANG Ning-Ya, # <u>LUO Bei</u> , WANG Mei, DENG Ying-Hao, WU Ting, WU Xi, LIU Qian, WANG Hong-Shen, WANG Lin, KANG Yi-Xin, DUAN Shao-Bin, "Machine learning for early discrimination between transient and persistent acute kidney injury in critically ill patients with sepsis", <i>Scientific Reports</i> , 11, 12 October 2021, doi: <a href="https://doi.org/10.1038/s41598-021-99840-6">https://doi.org/10.1038/s41598-021-99840-6</a> .  |

Section A: Publications of PhD Students

|                          |   |
|--------------------------|---|
|                          | # <a href="#">LUO Bei</a> , <a href="#">LAU Yiu Keung Raymond</a> , LI Chunping, SI Yain-Whar, "A critical review of state-of-the-art chatbot designs and applications", <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 12(1), 25 October 2021, doi: <a href="https://doi.org/10.1002/widm.1434">https://doi.org/10.1002/widm.1434</a> .   |
| <b>WANG Tianteng</b>     | # <a href="#">WANG Tianteng</a> , WANG Xuping, JIANG Yiping, SUN Zilai, LIANG Yuhu, HU Xiangpei, LI Hao, SHI Yan, <a href="#">XU Jingjun David</a> , RUAN Junhu, "Hybrid Machine Learning Approach for Evapotranspiration Estimation of Fruit Tree in Agricultural Cyber-Physical Systems", <i>IEEE Transactions on Cybernetics</i> , 04 May 2022, doi: <a href="https://doi.org/10.1109/TCYB.2022.3164542">https://doi.org/10.1109/TCYB.2022.3164542</a> . |
| <b>XU Ting</b>           | # <a href="#">XU Ting</a> , YANG Jianjun, ZHANG Feng, GUO Wenyu, "Interfirm cooperation, interfirm knowledge creation, and collaborative innovation performance: The moderating roles of environmental competitiveness and dysfunctional competition", <i>Industrial Marketing Management</i> , 99, 28 October 2021, pp 123-135, doi: <a href="https://doi.org/10.1016/j.indmarman.2021.10.003">https://doi.org/10.1016/j.indmarman.2021.10.003</a> .       |
| <b>YANG Guorui</b>       | # <a href="#">YANG Guorui</a> , WANG Xueqing, DING Ruxi, <a href="#">XU Jingjun David</a> , LI Mengnan, "Managing public opinion in consensus-reaching processes for large-scale group decision-making problems", <i>Journal of the Operational Research Society</i> , 13 January 2022, doi: <a href="https://doi.org/10.1080/01605682.2021.1993760">https://doi.org/10.1080/01605682.2021.1993760</a> .  |
| <b>YAO Zhizhen</b>       | NI Zhenni, QIAN Yuxing, # <a href="#">YAO Zhizhen</a> , ZHANG Shuai, "Understanding the Adoption of Dietary Interventions Within a Chinese Autism Online Community: A Diffusion of Innovations Perspective", <i>Health Communication</i> , 08 March 2022, doi: <a href="https://doi.org/10.1080/10410236.2022.2048469">https://doi.org/10.1080/10410236.2022.2048469</a> .  |
|                          | # <a href="#">YAO Zhizhen</a> , NI Zhenni, ZHANG Bin, DU Jian, "Do Informational and Emotional Elements Differ between Online Psychological and Physiological Disease Communities in China? A Comparative Study of Depression and Diabetes", <i>International Journal of Environmental Research and Public Health</i> , 19(4), 15 February 2022, doi: <a href="https://doi.org/10.3390/ijerph19042167">https://doi.org/10.3390/ijerph19042167</a> .         |
|                          | # <a href="#">YAO Zhizhen</a> , ZHANG Bin, NI Zhenni, MA Feicheng, "What users seek and share in online diabetes communities: examining similarities and differences in expressions and themes", <i>Aslib Journal of Information Management</i> , 74(2), 06 December 2021, pp 311-331, doi: <a href="https://doi.org/10.1108/AJIM-08-2021-0214">https://doi.org/10.1108/AJIM-08-2021-0214</a> .   |
| <b>ZENG Yi</b>           | CHAI Miaoling, ZOU Yixing, TANG Rongzhi, # <a href="#">ZENG Yi</a> , REN Yunyue, "面向农业产业知识服务的科学数据与科技文献关联研究与实践", <i>农业图书情报学报</i> , 34(3 (总第 309)), 05 March 2022, pp 37-50, doi: <a href="https://doi.org/10.13998/j.cnki.issn1002-1248.21-0574">https://doi.org/10.13998/j.cnki.issn1002-1248.21-0574</a> .   |
| <b>ZHANG Qiang</b>       | # <a href="#">ZHANG Qiang</a> , ZHU Xinyu, ZHAO J Leon, LIANG Liang, "Discovering signals of platform failure risks from customer sentiment: the case of online P2P lending", <i>Industrial Management and Data Systems</i> , 122(3), 01 March 2022, doi: <a href="https://doi.org/10.1108/IMDS-05-2021-0308">https://doi.org/10.1108/IMDS-05-2021-0308</a> .   |
| <b>ZHANG Xin</b>         | ZHANG Xiong, # <a href="#">ZHANG Xin</a> , LUO Xuechen, <a href="#">YUE Wei Thoo</a> , "The Impact of Revenue Models on Anti-Counterfeiting Measures for Online Intermediaries", <i>Information Systems Frontiers</i> , 19 October 2021, doi: <a href="https://doi.org/10.1007/s10796-021-10189-7">https://doi.org/10.1007/s10796-021-10189-7</a> .   |
| <b>ZHENG Ruoshu</b>      | WU Philip Fei, # <a href="#">ZHENG Ruoshu</a> , ZHAO Ying, LI Yixi, "Happy riders are all alike? Ambivalent subjective experience and mental well-being of food-delivery platform workers in China", <i>New Technology, Work and Employment</i> , 09 May 2022, doi: <a href="https://doi.org/10.1111/ntwe.12243">https://doi.org/10.1111/ntwe.12243</a> .   |
| <b>ZHOU Sijia</b>        | HAN Wenting, HAN Xi, # <a href="#">ZHOU Sijia</a> , ZHU Qinghua, "The Development History and Research Tendency of Medical Informatics: Topic Evolution Analysis", <i>JMIR Medical Informatics</i> , 10(1), 27 January 2022, doi: <a href="https://doi.org/10.2196/31918">https://doi.org/10.2196/31918</a> .   |
| <b>Conference papers</b> |   |
| <b>FU Mengyao</b>        | # <a href="#">FU Mengyao</a> , # <a href="#">XIONG Bingqing</a> , LIM Eric T.K., TAN Chee Wee, <a href="#">WANG Weiquan</a> , "Catching Audiences' Attention through Narrative Sensory Cues on Digital Distribution Platforms", <i>PACIS 2021 Proceedings</i> , Virtual, Dubai, United Arab Emirates, 12-14 July 2021, (ISBN: 978-1-7336325-7-7).   |

Section A: Publications of PhD Students

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| <b>HUANG Wenjie</b>      | <u>LI Xin</u> , # <u>HUANG Wenjie</u> , ZHANG Michael Xiaoquan, "More than Marketing: Management Signals in P2P Firms' Social Media Postings", <i>Annual Conference of the Decision Sciences Institute</i> , 13 November 2021.   |
| <b>JIA Feiyan</b>        | # <u>JIA Feiyan</u> , SHI Yani, SIA Choon Ling, TAN Chuan Hoo, NAH Fui Hoon, SIAU Keng Leng, "Users' Reception of Product Recommendations: Analyses Based on Eye Tracking Data", <i>HCI in Business, Government and Organizations - 8th International Conference, HCIBGO 2021, Held as Part of the 23rd HCI International Conference, HCII 2021, Virtual Event, July 24-29, 2021, Proceedings</i> , Virtual, Washington, United States, 24-29 July 2021, pp 90-104, (ISBN: 9783030777494,9783030777500). |
| <b>LIN Qingyuan</b>      | # <u>LIN Qingyuan</u> , <u>LU Angela</u> , "Why People Participate in Sending Danmuku? A Perspective from Herding Effect", <i>ICIS 2021 Proceedings - Building Sustainability and Resilience with IS: A Call for Action</i> , Austin, United States, 12-15 December 2021, (ISBN: 978-1-7336325-9-1).   |
| <b>SHI Rui</b>           | HUI Kai-Lung, # <u>SHI Rui</u> , <u>YUE Wei Thoo</u> , <u>ZHAO J Leon</u> , "Permissioned blockchains, transaction fee, and strategic orderers: An economic analysis", <i>The Workshop on Information Technologies and Systems (WITS 2021)</i> , Austin, United States, 15-17 December 2021.   |
| <b>WANG Yunhui</b>       | # <u>WANG Yunhui</u> , <u>LIU Junming</u> , <u>FANG Yulin</u> , "Storytelling in E-marketplace Live Streaming: The Effects of Narrative Content and Delivery on Sales Performance", <i>PACIS 2021 Proceedings</i> , Virtual, Dubai, United Arab Emirates, 12-14 July 2021.   |
| <b>XIONG Bingqing</b>    | # <u>FU Mengyao</u> , # <u>XIONG Bingqing</u> , LIM Eric T.K., TAN Chee Wee, <u>WANG Weiquan</u> , "Catching Audiences' Attention through Narrative Sensory Cues on Digital Distribution Platforms", <i>PACIS 2021 Proceedings</i> , Virtual, Dubai, United Arab Emirates, 12-14 July 2021, (ISBN: 978-1-7336325-7-7).   |
|                          | GUO Yanping, # <u>XIONG Bingqing</u> , LIM Eric T.K., SUN Yongqiang, TAN Chee Wee, "Exploring the Role of Referral Programs on the Crowdsourcing Platform: A Preliminary Analysis", <i>PACIS 2021 Proceedings</i> , Virtual, Dubai, United Arab Emirates, 12-14 July 2021, (ISBN: 978-1-7336325-7-7).  |
|                          | YANG Chaofan, # <u>XIONG Bingqing</u> , LIM Eric TK, SUN Yongqiang, TAN Chee Wee, "Disentangling the Effects of Client-vs. Rival-oriented Strategies on Bidding Performance: Evidence from a Crowdsourcing Platform", <i>PACIS 2021 Proceedings</i> , Virtual, Dubai, United Arab Emirates, 12-14 July 2021, (ISBN: 978-1-7336325-7-7).  |
| <b>XUAN Mengfan</b>      | # <u>XUAN Mengfan</u> , <u>LI Xin</u> , "Market-Driven Development Activities in Cryptocurrency OSS: Insiders vs. Outsiders", <i>Workshop on E-Business</i> , 12 December 2021.  |
| <b>ZENG Jicheng</b>      | # <u>ZENG Jicheng</u> , <u>FANG Yulin</u> , "Strategic Role of Alliance Portfolio and Application Programming Interfaces Economy: Empirical Evidence from Mashup Applications Context", <i>PACIS 2021 Proceedings</i> , Virtual, Dubai, United Arab Emirates, 12-14 July 2021.   |
| <b>ZHOU Sijia</b>        | # <u>ZHOU Sijia</u> , <u>LI Xin</u> , <u>YAN Jiaqi</u> , <u>SHI Yani</u> , WANG zhongming, "Online Activities and Offline Demand in Healthcare Platforms", <i>Workshop on E-Business</i> , 12 December 2021.   |
| <b>All other outputs</b> |  |
| <b>FANG Jie</b>          | # <u>FANG Jie</u> , <i>Understanding the Impact of Cross-Channel Integration on Consumer Purchase: Empirical Examination Based on Three Omni-Channel Contexts</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 09 July 2021.   |
| <b>FU Yan</b>            | # <u>FU Yan</u> , <i>Essays on the Mechanisms in Online Labor Markets</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 03 January 2022.  |
| <b>GONG Mingchuan</b>    | # <u>GONG Mingchuan</u> , <i>How to Improve Player Commitment: An Empirical Investigation on Mobile Massively Multiplayer Online Games</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 28 June 2022.  |
| <b>HUANG Wenjie</b>      | # <u>HUANG Wenjie</u> , <i>Management Signals in Social Media on P2P Firms' Operation Health</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 17 January 2022.   |
| <b>LI Weixun</b>         | # <u>LI Weixun</u> , <i>Where Is IT in Security - IT Investment, IS Governance and Information Security</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 06 October 2021.  |

Section A: Publications of PhD Students

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| <b>PAN Ran</b>                           | # <b>PAN Ran</b> , <i>Three Essays on Direct Marketing: Live-stream Selling, Advertising Signaling Paradoxes, and Platform Selling Partnership</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 11 May 2022.  |
| <b>WANG Panpan</b>                       | # <b>WANG Panpan</b> , <i>Unravelling Consumer's Purchase Decision in Social Commerce: Social Network Lens and Social Power Theory</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.   |
| <b>XU Ting</b>                           | # <b>XU Ting</b> , <i>How Firms Can Acquire Competitive Advantages through Ability and Willingness in Different External Environments: The Mediating Roles of Supply Chain Collaboration and Interfirm Coopetition</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 05 January 2022.  |
| <b>YAN Zhenbin</b>                       | # <b>YAN Zhenbin</b> , <i>Research on The Impact of Visual Elements on Sales in E-commerce Context: Empirical Evidence of Pictures and Virtual Reality</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 07 September 2021.  |
| <b>YANG Zekun</b>                        | # <b>YANG Zekun</b> , <i>Explainable Machine Learning Frameworks for Recommendation and Prediction Based on User-generated Content</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 17 August 2021.   |
| <b>YU Jianhua</b>                        | # <b>YU Jianhua</b> , <i>The Diabetes Management App for Diabetic Mellitus' Wellbeing: A Perspective on Optimal Matching of Social Support</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 26 April 2022.  |
| <b>YUAN Ziqing</b>                       | # <b>YUAN Ziqing</b> , <i>Essays on the Business Value of Investments in Mobile Apps and Mobile Websites</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.   |
| <b>ZHAO Hongying</b>                     | # <b>ZHAO Hongying</b> , <i>Building Sustainable Online Communities: Investigating Changes in User Behavioral Intention as an Online Community Develops</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 05 January 2022.   |
| <b>ZHOU Sijia</b>                        | # <b>ZHOU Sijia</b> , <i>Balance, Interference, and Complementation: Three Essays on Online Healthcare Platforms</i> , PhD Thesis, Department of Information Systems, City University of Hong Kong, Hong Kong, PRC, 17 December 2021.   |
| <b>DEPARTMENT OF MANAGEMENT</b>          |   |
| <b>Journal publications</b>              |   |
| <b>DU Qiyang</b>                         | WU Wen, ZHANG Yihua, NI Dan, LI Shuang, WU Shaoxue, YU Zhuyan, # <b>DU Qiyang</b> , ZHANG Xiaoyan, "The relationship between idiosyncratic deals and employee workplace deviance: The moderating role of exchange ideology", <i>Journal of Vocational Behavior</i> , 135, 02 May 2022, doi: <a href="https://doi.org/10.1016/j.jvb.2022.103726">https://doi.org/10.1016/j.jvb.2022.103726</a> .   |
| <b>Conference papers</b>                 |   |
| <b>UGWUANYI Ijeoma Priscilla</b>         | # <b>UGWUANYI Ijeoma Priscilla</b> , KIM Kyoung Yong, "Board Gender Diversity and Innovation: The Role of Board Size and Firm Slack Resources", <i>41st Annual Conference of the Strategic Management Society (SMS 2021)</i> , Virtual, Toronto, Canada, 18-21 September 2021.<br>KIM Kyoungyong, # <b>UGWUANYI Ijeoma Priscilla</b> , MATTHEW Charles, "Social distancing reduces negative affective relationships", <i>2022 Society for Industrial and Organizational Psychology (SIOP) Annual Conference</i> , Hybrid, Seattle, United States, 27-30 April 2022. |
| <b>DEPARTMENT OF MANAGEMENT SCIENCES</b> |   |
| <b>Journal publications</b>              |   |
| <b>LAI Qidong</b>                        | # <b>LAI Qidong</b> , ZHANG Zizhen, YU Mingzhu, WANG Jiahai, "Split-Delivery Capacitated Arc-Routing Problem With Time Windows", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 23(3), March 2022, pp 2882-2887, doi: <a href="https://doi.org/10.1109/TITS.2020.3029055">https://doi.org/10.1109/TITS.2020.3029055</a> .   |
| <b>LI Wenhao</b>                         | # <b>LI Wenhao</b> , <b>SUN Zhankun</b> , HONG L. Jeff, "Who Is Next: Patient Prioritization under Emergency Department Blocking", <i>Operations Research</i> , 08 December 2021, doi: <a href="https://doi.org/10.1287/opre.2021.2187">https://doi.org/10.1287/opre.2021.2187</a> .  |
| <b>WANG Junyan</b>                       | OUYANG Huiyin, # <b>WANG Junyan</b> , <b>SUN Zhankun</b> , LANG Eddy, "The impact of emergency department crowding on admission decisions and patient outcomes", <i>American Journal of Emergency Medicine</i> , 51, 30 October 2021, pp 163-168, doi: <a href="https://doi.org/10.1016/j.ajem.2021.10.049">https://doi.org/10.1016/j.ajem.2021.10.049</a> .  |

Section A: Publications of PhD Students

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|---|--|
| <b>ZHENG Siming</b>                             | #ZHENG Siming, WAN Tze-Kin Alan, ZHOU Yong, "Missing data analysis with sufficient dimension reduction", <i>Canadian Journal of Statistics</i> , 11 May 2022, doi: <a href="https://doi.org/10.1002/cjs.11700">https://doi.org/10.1002/cjs.11700</a> .   |
|   | #ZHENG Siming, ZHANG Juan, ZHOU Yong, "Likelihood identifiability and parameter estimation with nonignorable missing data", <i>Canadian Journal of Statistics</i> , 27 May 2022, doi: <a href="https://doi.org/10.1002/cjs.11704">https://doi.org/10.1002/cjs.11704</a> .  |
| <b>Conference papers</b>                        |  |
| <b>WU Tongwen</b>                               | #WU Tongwen, YANG Yu, LI Yanzhi David, MAO Huiqiang, LI Liming, WANG Xiaoqing, DENG Yuming, "Representation Learning for Predicting Customer Orders", <i>KDD '21 - Proceedings of the 27th ACM SIGKDD Conference on Knowledge Discovery and Data Mining</i> , Virtual, Singapore, 14-18 August 2021, pp 3735–3744, (ISBN: 9781450383325).  |
| <b>All other outputs</b>                        |  |
| <b>CHEN Chi Ming</b>                            | #CHEN Chi Ming, <i>Cost-Based High-Dimensional Feature Selection and Credit Scoring Models</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.   |
| <b>LI Wenhao</b>                                | #LI Wenhao, <i>Two Essays on Data-driven Decision Making: Healthcare Analytics and Contextual Online Learning</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.   |
| <b>LIANG Qi</b>                                 | #LIANG Qi, <i>Upper Confidence Bound: Methods for Order Statistics with Applications to Risk Measurement</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 30 March 2022.   |
| <b>SU Xinxin</b>                                | #SU Xinxin, <i>The Research on Vehicle Routing Problem with Time Windows and Staff Resource Assignment</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| <b>WANG Xiuxian</b>                             | #WANG Xiuxian, <i>Essays in Healthcare Services Management and Simulation Optimization</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 28 July 2021.  |
| <b>ZHAO Huan</b>                                | #ZHAO Huan, <i>Fairness and Efficiency Issues on Liver Allocation and Transplantation Issue in the United States</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.  |
| <b>ZHENG Siming</b>                             | #ZHENG Siming, <i>The Identification and Dimension Reduction Problem in Missing Data Analysis</i> , PhD Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 14 July 2021.   |
| <b>DEPARTMENT OF MARKETING</b>                  |  |
| <b>Scholarly books, monographs and chapters</b> |  |
| <b>ALAUDDIN Md</b>                              | #ALAUDDIN Md, HOSSAIN Syed Far Abid, MOWLA Mohammad Masrurul, "Mobile Technology and Applications in the Tourism and Hospitality Industry of Hong Kong", <i>Technology Application in Tourism in Asia - Innovations, Theories and Practices</i> , Hassan Azizul (ed), Springer, ISBN: 978-981-16-5460-2, 978-981-16-5461-9, 978-981-16-5463-3, Singapore, 01 January 2022, pp 255-266. |
|   | ASAD IQBAL CHOWDHURY Md, #ALAUDDIN Md, UDDIN Mohammad Rahim, "Sustainable Tourism in Bangladesh - The Demand for Investment and Development", <i>Tourism in Bangladesh - Investment and Development Perspectives</i> , Hassan Azizul (ed), Springer, ISBN: 978-981-16-1857-4, 978-981-16-1858-1, 978-981-16-1860-4, Singapore, 2021, pp 363-381.                                       |
|   | #ALAUDDIN Md, ATIQRU RAHMAN C.M, HASSAN Azizul, "Investment and Development for Agri-tourism in Bangladesh", <i>Tourism in Bangladesh - Investment and Development Perspectives</i> , Hassan Azizul (ed), Springer, ISBN: 978-981-16-1857-4, 978-981-16-1858-1, 978-981-16-1860-4, Singapore, 2021, pp 209-222.  |
|   | #ALAUDDIN Md, HASSAN Azizul, "Technology Application for Visa and Immigration for Tourists in Bangladesh", <i>Technology Application in the Tourism and Hospitality Industry of Bangladesh</i> , Hassan Azizul (ed), Springer, ISBN: 978-981-16-2433-9, 978-981-16-2434-6, 978-981-16-2436-0, Singapore, 07 October 2021, pp 199-211.  |
|   | #ALAUDDIN Md, KAMAL Md Aktar, ASAD IQBAL CHOWDHURY Md, "Ecotourism in Bangladesh - Investment and Development Contexts", <i>Tourism in Bangladesh -</i>  |

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|--|---|
|  | <i>Investment and Development Perspectives</i> , Hassan Azizul (ed), Springer, ISBN: 978-981-16-1857-4,978-981-16-1858-1,978-981-16-1860-4, Singapore, 2021, pp 259-275.  |
| <b>Journal publications</b>                                  |   |
| <b>ALAUDDIN Md</b>   | AHSAN Syed Md. Hasib, #ALAUDDIN Md, ALAM Mohammad Manjur , NAZIA Adiba, ISLAM Tasnim, "The Impact of Loyalty Program on Customer Retention: Empirical Evidence from Bangladesh", <i>Journal of Asian Finance, Economics and Business</i> , 9(6), 30 June 2022, pp 195-206, doi: <a href="https://doi.org/10.13106/jafeb.2022.vol9.no6.0195">https://doi.org/10.13106/jafeb.2022.vol9.no6.0195</a> .   |
|  | ALAM Mohammad Manjur , #ALAUDDIN Md, SHARIF Mohd Yasin , DOOTY Evana Nusrat , AHSAN Syed Md. Hasib, CHOWDHURY Mustafa Manir , "Students' Satisfaction and University Reputation through Service Quality in Private Higher Educational Institutions in Bangladesh", <i>Journal of Asian Finance, Economics and Business</i> , 8(9), 30 September 2021, pp 91-100, doi: <a href="https://doi.org/10.13106/jafeb.2021.vol8.no9.0091">https://doi.org/10.13106/jafeb.2021.vol8.no9.0091</a> . |
| <b>HOU Tianyu</b>  | #HOU Tianyu, LI Juan Julie, LIN Jun, "Recombination of Knowledge Components and Knowledge Impact: Neighboring Components Versus Distant Components", <i>IEEE Transactions on Engineering Management</i> , 13 November 2021, doi: <a href="https://doi.org/10.1109/TEM.2021.3119437">https://doi.org/10.1109/TEM.2021.3119437</a> .  |
| <b>MA Yongchao</b>   | CAI Shaohan, WANG Xiaoyan, #MA Yongchao, ZHOU Xinyue, YANG Zhilin, "Boundary spanner closeness to partner firm as relational governance in turbulent versus stable environments", <i>European Journal of Marketing</i> , 56(1), 10 December 2021, pp 252-282, doi: <a href="https://doi.org/10.1108/EJM-05-2020-0356">https://doi.org/10.1108/EJM-05-2020-0356</a> .  |
| <b>REN Yeyao</b>   | ZHANG Liang, #REN Yeyao, WU Jianzu, "Communist Ideological Imprinting and the Transformation of State-owned Enterprises", <i>British Journal of Management</i> , 26 June 2022, doi: <a href="https://doi.org/10.1111/1467-8551.12632">https://doi.org/10.1111/1467-8551.12632</a> .   |
| <b>SHAN Shuo</b>   | #SHAN Shuo, SHOU Yongyi , KANG Mingu, PARK Youngwon, "The effects of socio-technical integration on sustainability practices: a supply chain perspective", <i>Industrial Management and Data Systems</i> , 122(2), 06 December 2021, pp 419-441, doi: <a href="https://doi.org/10.1108/IMDS-05-2021-0295">https://doi.org/10.1108/IMDS-05-2021-0295</a> .   |
|  | LIU Lingjia, #SHAN Shuo, SHOU Yongyi , KANG Mingu, PARK Young Won, "Sustainable sourcing and agility performance: The moderating effects of organizational ambidexterity and supply chain disruption", <i>Australian Journal of Management</i> , 19 January 2022, doi: <a href="https://doi.org/10.1177/03128962211071128">https://doi.org/10.1177/03128962211071128</a> .  |
| <b>YU Jinjun</b>   | CHI Yunjia, QING Ping, JIN Yong Jimmy, #YU Jinjun, DONG Chuoyan Maggie, HUANG Li, "Competition or spillover? Effects of platform-owner entry on provider commitment", <i>Journal of Business Research</i> , 144, 17 February 2022, pp 627-636, doi: <a href="https://doi.org/10.1016/j.jbusres.2021.12.073">https://doi.org/10.1016/j.jbusres.2021.12.073</a> .   |
| <b>Conference papers</b>                                     |   |
| <b>HOU Tianyu</b>  | #HOU Tianyu, LI Juan Julie, "The Impact of Intra-Organizational Knowledge configuration on the Termination of Patented Inventions", <i>Academy of Management Annual Meeting Proceedings 2021</i> , Virtual, 29 July - 04 August 2021.   |
| <b>RUIZ SERRANO Andres</b>                                   | #RUIZ SERRANO Andres, RUIZ SERRANO Mauricio, SERRANO BARQUIN Carolina, "The unexpected detrimental effect of organizational size on survival rates among restaurants under public health crisis", <i>SIBR 2021 CONFERENCE ON INTERDISCIPLINARY BUSINESS &amp; ECONOMICS RESEARCH</i> , Ark Hotel and Online, Osaka, Japan, 01-02 July 2021.   |
| <b>All other outputs</b>                                     |   |
| <b>PAN Haibo</b>   | #PAN Haibo, <i>Franchisee Configuration and Its Implications on Franchise System Performance</i> , PhD Thesis, Department of Marketing, City University of Hong Kong, Hong Kong, PRC, 13 December 2021.   |
| <b>College of Engineering</b>                                |   |
| <b>DEPARTMENT OF ADVANCED DESIGN AND SYSTEMS ENGINEERING</b> |   |
| <b>Journal publications</b>                                  |   |
| <b>AHMED Ahmed Maged Mohamed</b>                             | AHMED Abdullah, #MAGED Ahmed, SOLIMAN Aref, EL-HUSSINIENY Haitham, MAGDY Mahmoud, "Space deformation based path planning for Mobile Robots", <i>ISA Transactions</i> , 126, 16 August 2021, pp 666-678, doi: <a href="https://doi.org/10.1016/j.isatra.2021.08.019">https://doi.org/10.1016/j.isatra.2021.08.019</a> .  |



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|                       | <p>#<u>MAGED Ahmed</u>, AHMED Abdullah, HARIDY Salah, BAKER Arthur W., <u>XIE Min</u>, "SEIR Model to address the impact of face masks amid COVID-19 pandemic", <i>Risk Analysis</i>, 15 June 2022, doi: <a href="https://doi.org/10.1111/risa.13958">https://doi.org/10.1111/risa.13958</a>.</p> <p>#<u>LI Peng</u>, #<u>MAGED Ahmed</u>, <u>ZHANG Aibo</u>, <u>XIE Min</u>, DANG Wei, LYU Congmin, "An adaptive prognostics method based on a new health index via data fusion and diffusion process", <i>Measurement</i>, 193, 07 March 2022, doi: <a href="https://doi.org/10.1016/j.measurement.2022.110968">https://doi.org/10.1016/j.measurement.2022.110968</a>.</p> <p>#<u>MAGED Ahmed</u>, HARIDY Salah, CHONG Michael K., SHAMSUZZAMAN Mohammad, "Time Between Events Monitoring for Imperfect Maintained Systems with Application to a Robotic System", <i>Journal of Statistical Computation and Simulation</i>, 92(7), 27 October 2021, pp 1347–1372, doi: <a href="https://doi.org/10.1080/00949655.2021.1993224">https://doi.org/10.1080/00949655.2021.1993224</a>.</p> <p>#<u>MAGED Ahmed</u>, <u>XIE Min</u>, "Recognition of abnormal patterns in industrial processes with variable window size via convolutional neural networks and AdaBoost", <i>Journal of Intelligent Manufacturing</i>, 20 January 2022, doi: <a href="https://doi.org/10.1007/s10845-021-01907-8">https://doi.org/10.1007/s10845-021-01907-8</a>.</p> <p>SHAMSUZZAMAN Mohammad, SHAMSUZZOHA Ahm, #<u>MAGED Ahmed</u>, HARIDY Salah, BASHIR Hamdi, KARIM Azharul, "Effective monitoring of carbon emissions from industrial sector using statistical process control", <i>Applied Energy</i>, 300, 12 July 2021, doi: <a href="https://doi.org/10.1016/j.apenergy.2021.117352">https://doi.org/10.1016/j.apenergy.2021.117352</a>.</p> |
| <b>CAO Yiyin</b>      | <p>#<u>CAO Yiyin</u>, <u>DANG Chuangyin</u>, SUN Yabin, "Complementarity Enhanced Nash's Mappings and Differentiable Homotopy Methods to Select Perfect Equilibria", <i>Journal of Optimization Theory and Applications</i>, 192(2), 23 November 2021, pp 533–563, doi: <a href="https://doi.org/10.1007/s10957-021-01977-x">https://doi.org/10.1007/s10957-021-01977-x</a>.</p> <p>#<u>CAO Yiyin</u>, <u>DANG Chuangyin</u>, XIAO Zhongdong, "A differentiable path-following method to compute subgame perfect equilibria in stationary strategies in robust stochastic games and its applications", <i>European Journal of Operational Research</i>, 298(3), 09 July 2021, pp 1032-1050, doi: <a href="https://doi.org/10.1016/j.ejor.2021.06.059">https://doi.org/10.1016/j.ejor.2021.06.059</a>.</p> <p>#<u>CAO Yiyin</u>, <u>DANG Chuangyin</u>, "A variant of Harsanyi's tracing procedures to select a perfect equilibrium in normal form games", <i>Games and Economic Behavior</i>, 134, 25 April 2022, pp 127-150, doi: <a href="https://doi.org/10.1016/j.geb.2022.04.004">https://doi.org/10.1016/j.geb.2022.04.004</a>.</p>  |
| <b>CHANG Fangrong</b> | <p>#<u>CHANG Fangrong</u>, HAQUE Md.Mazharul, YASMIN Shamsunnahar, HUANG Helai, "Crash injury severity analysis of E-Bike Riders: A random parameters generalized ordered probit model with heterogeneity in means", <i>Safety Science</i>, 146, 27 October 2021, doi: <a href="https://doi.org/10.1016/j.ssci.2021.105545">https://doi.org/10.1016/j.ssci.2021.105545</a>.</p> <p>#<u>CHANG Fangrong</u>, HUANG Helai, <u>CHAN Hoi Shou Alan</u>, <u>MAN Siu Shing</u>, GONG Yaobang, #<u>ZHOU Hanchu</u>, "Capturing long-memory properties in road fatality rate series by an autoregressive fractionally integrated moving average model with generalized autoregressive conditional heteroscedasticity: A case study of Florida, the United States, 1975–2018", <i>Journal of Safety Research</i>, 81, 03 March 2022, pp 216-224, doi: <a href="https://doi.org/10.1016/j.jsr.2022.02.013">https://doi.org/10.1016/j.jsr.2022.02.013</a>.</p>   |
| <b>CHANG Haoliang</b> | <p>HUANG Jianxiang, CUI Yuming, #<u>CHANG Haoliang</u>, OBRACHT-PRONDZYNSKA Hanna, KAMROWSKA-ZALUSKA Dorota, <u>LI Lishuai</u>, "A city is not a tree: a multi-city study on street network and urban life", <i>Landscape and Urban Planning</i>, 226, 17 May 2022, doi: <a href="https://doi.org/10.1016/j.landurbplan.2022.104469">https://doi.org/10.1016/j.landurbplan.2022.104469</a>.</p> <p>#<u>CHANG Haoliang</u>, <u>LI Lishuai</u>, HUANG Jianxiang, <u>ZHANG Qingpeng</u>, <u>CHIN Kwai Sang</u>, "Tracking traffic congestion and accidents using social media data: A case study of Shanghai", <i>Accident Analysis and Prevention</i>, 169, 26 February 2022, doi: <a href="https://doi.org/10.1016/j.aap.2022.106618">https://doi.org/10.1016/j.aap.2022.106618</a>.</p> <p>#<u>CHANG Haoliang</u>, HUANG Jianxiang, YAO Weiran, #<u>ZHAO Weizun</u>, <u>LI Lishuai</u>, "How do new transit stations affect people's sentiment and activity? A case study based on social media data in Hong Kong", <i>Transport Policy</i>, 120, 21 March 2022, pp 139-155, doi: <a href="https://doi.org/10.1016/j.tranpol.2022.03.011">https://doi.org/10.1016/j.tranpol.2022.03.011</a>.</p>   |
| <b>GHAFOOR Imran</b>  | <p>#<u>GHAFOOR Imran</u>, <u>TSE Wai Tat Peter</u>, MUNIR Nauman, TRAPPEY Amy J. C., "Non-contact detection of railhead defects and their classification by using convolutional neural network", <i>Optik</i>, 253, 17 January 2022, doi: <a href="https://doi.org/10.1016/j.ijleo.2022.168607">https://doi.org/10.1016/j.ijleo.2022.168607</a>.</p>   |

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|-----------------------------|--|
|                             | #NG Kim Ming, #GHAFOOR Imran, TSE Wai Tat Peter, "A novel laser-based duffing oscillator system to identify weak ultrasonic guided wave signals related to rail defects", <i>Optics and Lasers in Engineering</i> , 157, 24 May 2022, doi: <a href="https://doi.org/10.1016/j.optlaseng.2022.107111">https://doi.org/10.1016/j.optlaseng.2022.107111</a> .   |
| <b>HE Kangzhe</b>           | #HE Kangzhe, LIU Bin, XIE Min, DO Phuc, IUNG Benoit, KUO Way, "Reliability analysis of systems with discrete event data using association rules", <i>Quality and Reliability Engineering International</i> , 37(8), 10 July 2021, pp 3693-3712, doi: <a href="https://doi.org/10.1002/qre.2942">https://doi.org/10.1002/qre.2942</a> .   |
| <b>HOU Zeyu</b>             | #HOU Zeyu, ROSTAMI Javad, LI Gordon G. D., HUANG Jinhui, "Performance investigation on the balance of static and dynamic magnetic field strength of magnetostrictive patch transducer with different permanent magnets", <i>Journal of Instrumentation</i> , 17(5), 04 May 2022, doi: <a href="https://doi.org/10.1088/1748-0221/17/05/p05007">https://doi.org/10.1088/1748-0221/17/05/p05007</a> .<br>#HOU Zeyu, ROSTAMI Javad, "Novel design of an effective pneumatic magnetostrictive patch transducer based on the ultrasonic guided wave for application of fast pipe health inspection", <i>Measurement Science and Technology</i> , 32(10), 08 July 2021, doi: <a href="https://doi.org/10.1088/1361-6501/ac0a0d">https://doi.org/10.1088/1361-6501/ac0a0d</a> .<br>#HOU Zeyu, "Performance Optimization of Harmonized Flexible Printed Coils of Axial Magnetized Magnetostrictive Patch Transducers for Pipeline Inspection", <i>Measurement</i> , 199, 21 June 2022, doi: <a href="https://doi.org/10.1016/j.measurement.2022.111478">https://doi.org/10.1016/j.measurement.2022.111478</a> .  |
| <b>KHAN Muhammad Mohsin</b> | #KHAN Muhammad Mohsin, TSE Wai Tat Peter, TRAPPEY Amy J. C., "Development of a novel methodology for remaining useful life prediction of industrial slurry pumps in the absence of run to failure data", <i>Sensors</i> , 21(24), 16 December 2021, doi: <a href="https://doi.org/10.3390/s21248420">https://doi.org/10.3390/s21248420</a> .<br>#KHAN Muhammad Mohsin, TSE Wai Tat Peter, #YANG Jinzhao, "A Novel Framework for Online Remaining Useful Life Prediction of an Industrial Slurry Pump", <i>Applied Sciences-Basel</i> , 12(10), 10 May 2022, doi: <a href="https://doi.org/10.3390/app12104839">https://doi.org/10.3390/app12104839</a> .   |
| <b>LEI Jingzhe</b>          | LING Chunyan, WANG LU, #LEI Jingzhe, "Importance analysis of different components in a multicomponent system under fuzzy inputs", <i>Structural and Multidisciplinary Optimization</i> , 65(3), 18 February 2022, doi: <a href="https://doi.org/10.1007/s00158-022-03189-x">https://doi.org/10.1007/s00158-022-03189-x</a> .   |
| <b>LEI Lei</b>              | #LEI Lei, GANG Yang, JING Guo, CHEN Liqun, "Gliding hydrodynamic modeling and identification of underwater glider based on differential evolution algorithm", <i>Ocean Engineering</i> , 244, 21 December 2021, doi: <a href="https://doi.org/10.1016/j.oceaneng.2021.110250">https://doi.org/10.1016/j.oceaneng.2021.110250</a> .<br>#LEI Lei, GANG Yang, JING Guo, "Physics-guided neural network for underwater glider flight modeling", <i>Applied Ocean Research</i> , 121, 28 February 2022, doi: <a href="https://doi.org/10.1016/j.apor.2022.103082">https://doi.org/10.1016/j.apor.2022.103082</a> .<br>JING Guo, #LEI Lei, GANG Yang, "Dynamic modeling and experimental analysis of an underwater glider in the ocean", <i>Applied Mathematical Modelling</i> , 108, 03 April 2022, pp 392-407, doi: <a href="https://doi.org/10.1016/j.apm.2022.03.034">https://doi.org/10.1016/j.apm.2022.03.034</a> .<br>GUO Jing, YANG Shuai, YANG Zhile, #LEI Lei, #ZHANG Xu, "Energy-balanced path optimization of UAV-assisted wireless power and information system", <i>Wireless Networks</i> , 28(5), 09 April 2022, pp 2047–2059, doi: <a href="https://doi.org/10.1007/s11276-022-02955-5">https://doi.org/10.1007/s11276-022-02955-5</a> . |
| <b>LI Peixuan</b>           | DANG Chuangyin, HERINGS P. Jean-Jacques, #LI Peixuan, "An Interior-Point Differentiable Path-Following Method to Compute Stationary Equilibria in Stochastic Games", <i>INFORMS Journal on Computing</i> , 25 January 2022, doi: <a href="https://doi.org/10.1287/ijoc.2021.1139">https://doi.org/10.1287/ijoc.2021.1139</a> .   |
| <b>LI Peng</b>              | ZHANG Aibo, HAO Songhua, #LI Peng, XIE Min, LIU Yiliu, "Performance modeling for condition-based activation of the redundant safety system subject to harmful tests", <i>Reliability Engineering and System Safety</i> , 226, 17 June 2022, doi: <a href="https://doi.org/10.1016/j.ress.2022.108649">https://doi.org/10.1016/j.ress.2022.108649</a> .<br>#LI Peng, #MAGED Ahmed, ZHANG Aibo, XIE Min, DANG Wei, LYU Congmin, "An adaptive prognostics method based on a new health index via data fusion and diffusion process", <i>Measurement</i> , 193, 07 March 2022, doi: <a href="https://doi.org/10.1016/j.measurement.2022.110968">https://doi.org/10.1016/j.measurement.2022.110968</a> .  |

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|----------------------------|--|
| <b>LIANG Pei</b>           | #LIANG Pei, HU Junhua, CHIN Kwai Sang, "Managing consistency and consensus measures and adjustment strategies in group decision making with probabilistic linguistic preference relations", <i>Journal of Intelligent and Fuzzy Systems</i> , 41(6), 16 December 2021, pp 7421-7445, doi: <a href="https://doi.org/10.3233/JIFS-211371">https://doi.org/10.3233/JIFS-211371</a> .  |
| <b>LIU Yunhao</b>          | #LIU Yunhao, FENG Gengzhong, TSUI Kwok Leung, SUN Shaolong, "Forecasting influenza epidemics in Hong Kong using Google search queries data: A new integrated approach", <i>Expert Systems with Applications</i> , 185, 17 July 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.115604">https://doi.org/10.1016/j.eswa.2021.115604</a> .<br>#LIU Yunhao, FENG Gengzhong, CHIN Kwai Sang, SUN Shaolong, WANG Shouyang, "Daily tourism demand forecasting: the impact of complex seasonal patterns and holiday effects", <i>Current Issues in Tourism</i> , 14 April 2022, doi: <a href="https://doi.org/10.1080/13683500.2022.2060067">https://doi.org/10.1080/13683500.2022.2060067</a> .   |
| <b>LU Zhongyang</b>        | #LU Zhongyang, CHOW Andy, LEUNG Jacky, KWOK Haydn, CHEUNG Sammy, "Empirical Assessment and Modeling of Traffic-induced Air Pollution", <i>Transportation Research Record: Journal of the Transportation Research Board</i> , 2675(11), 22 July 2021, pp 1043-1053, doi: <a href="https://doi.org/10.1177/03611981211023769">https://doi.org/10.1177/03611981211023769</a> .  |
| <b>LUI Chun Fai</b>        | #LUI Chun Fai, LIU Yiqi, XIE Min, "A Supervised Bidirectional Long Short-Term Memory Network for Data-driven Dynamic Soft Sensor Modeling", <i>IEEE Transactions on Instrumentation and Measurement</i> , 71, 22 February 2022, doi: <a href="https://doi.org/10.1109/TIM.2022.3152856">https://doi.org/10.1109/TIM.2022.3152856</a> .   |
| <b>NG Kim Ming</b>         | #NG Kim Ming, #GHAFOOR Imran, TSE Wai Tat Peter, "A novel laser-based duffing oscillator system to identify weak ultrasonic guided wave signals related to rail defects", <i>Optics and Lasers in Engineering</i> , 157, 24 May 2022, doi: <a href="https://doi.org/10.1016/j.optlaseng.2022.107111">https://doi.org/10.1016/j.optlaseng.2022.107111</a> .   |
| <b>NGUYEN Thi Minh Hoa</b> | #NGUYEN Thi Minh Hoa, CHOW Andy, #YING Chengshuo, "Pareto routing and scheduling dynamic urban rail transit services with multi-objective cross entropy method", <i>Transportation Research Part E: Logistics and Transportation Review</i> , 156, 19 November 2021, doi: <a href="https://doi.org/10.1016/j.tre.2021.102544">https://doi.org/10.1016/j.tre.2021.102544</a> .<br>#YING Chengshuo, CHOW Andy, #NGUYEN Thi Minh Hoa, CHIN Kwai Sang, "Multi-agent deep reinforcement learning for adaptive coordinated metro service operations with flexible train composition", <i>Transportation Research Part B: Methodological</i> , 161, 17 May 2022, pp 36-59, doi: <a href="https://doi.org/10.1016/j.trb.2022.05.001">https://doi.org/10.1016/j.trb.2022.05.001</a> . |
| <b>NIE Ruxin</b>           | #NIE Ruxin, TIAN Zhang-peng, LONG Ru-yin, DONG Wei, "Forecasting household electricity demand with hybrid machine learning-based methods: Effects of residents' psychological preferences and calendar variables", <i>Expert Systems with Applications</i> , 206, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.eswa.2022.117854">https://doi.org/10.1016/j.eswa.2022.117854</a> .   |
| <b>SU Zicheng</b>          | HUANG Y.P., CHEN C., #SU Zicheng, CHEN T.S., SUMALEE A., PAN T. L., ZHONG R.X., "Bus arrival time prediction and reliability analysis: An experimental comparison of functional data analysis and Bayesian support vector regression", <i>Applied Soft Computing</i> , 111, 05 July 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.107663">https://doi.org/10.1016/j.asoc.2021.107663</a> .   |
| <b>SUN Yangyang</b>        | #SUN Yangyang, DANG Chuangyin, FENG Gengzhong, "SaaS or not: optimal versioning strategy of releasing enterprise software", <i>Industrial Management and Data Systems</i> , 122(3), 25 February 2022, pp 592-621, doi: <a href="https://doi.org/10.1108/IMDS-06-2021-0408">https://doi.org/10.1108/IMDS-06-2021-0408</a> .<br>WANG Zhu-Jun, #SUN Yangyang, CHEN Zhensong, FENG Geng-Zhong, SU Qin, "Optimal versioning strategy of enterprise software considering the customer cost-acceptance level", <i>Kybernetes</i> , 16 November 2021, doi: <a href="https://doi.org/10.1108/K-04-2021-0339">https://doi.org/10.1108/K-04-2021-0339</a> .   |
| <b>TAO Yidan</b>           | LIN Shifeng, WANG Zunran, LING Yonggen, #TAO Yidan, YANG Chenguang, "E2EK: End-to-End Regression Network Based on Keypoint for 6D Pose Estimation", <i>IEEE Robotics and Automation Letters</i> , 7(3), 11 May 2022, pp 6526-6533, doi: <a href="https://doi.org/10.1109/LRA.2022.3174261">https://doi.org/10.1109/LRA.2022.3174261</a> .<br>#TAO Yidan, LI Linlin, LI Hanxiong, ZHU Limin, "High-Bandwidth Tracking Control of Piezoactuated Nanopositioning Stages via Active Modal Control", <i>IEEE Transactions on Automation Science and Engineering</i> , 19 August 2021, doi: <a href="https://doi.org/10.1109/TASE.2021.3104478">https://doi.org/10.1109/TASE.2021.3104478</a> .  |
| <b>WANG Bi</b>             | #WANG Bi, SU Qin, CHIN Kwai Sang, "Vulnerability assessment of China–Europe Railway Express multimodal transport network under cascading failures", <i>Physica A: Statistical</i>  |

Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
|                       | <p><i>Mechanics and its Applications</i>, 584, 24 August 2021, doi: <a href="https://doi.org/10.1016/j.physa.2021.126359">https://doi.org/10.1016/j.physa.2021.126359</a>.</p>  |
|                       | <p>#WANG Bi, CHIN Kwai Sang, SU Qin, "Risk management and market structures in seaport–dry port systems", <i>Maritime Economics &amp; Logistics</i>, 24(1), 18 October 2021, pp 114–137, doi: <a href="https://doi.org/10.1057/s41278-021-00202-w">https://doi.org/10.1057/s41278-021-00202-w</a>.</p>  |
|                       | <p>#WANG Bi, CHIN Kwai Sang, SU Qin, "Prevention and adaptation to diversified risks in the seaport–dry port system under asymmetric risk behaviors: Invest earlier or wait?", <i>Transport Policy</i>, 125, 19 May 2022, pp 11-36, doi: <a href="https://doi.org/10.1016/j.tranpol.2022.05.006">https://doi.org/10.1016/j.tranpol.2022.05.006</a>.</p>   |
| <b>WANG Tianyue</b>   | <p>MA Ruize, JIANG Lin, #WANG Tianyue, WANG Xuping, RUAN Junhu, "How do manufacturing companies and service providers share knowledge in the context of servitization? An evolutionary-game model of complex networks", <i>International Journal of Production Research</i>, 31 May 2022, doi: <a href="https://doi.org/10.1080/00207543.2022.2079013">https://doi.org/10.1080/00207543.2022.2079013</a>.</p> |
| <b>WANG Zezhong</b>   | <p>#WANG Zezhong, #HO Tak Cho Eric, ZWETSLOOT Inez, "Accuracy and precision of the CSLT measurement system: An experiment to defect diagnoses in bored piles", <i>HKIE Transactions Hong Kong Institution of Engineers</i>, 28(4), 31 December 2021, pp 176-185, doi: <a href="https://doi.org/10.33430/V28N4THIE-2021-0011">https://doi.org/10.33430/V28N4THIE-2021-0011</a>.</p>                            |
| <b>WANG Zhonghao</b>  | <p>#WANG Zhonghao, XU Zhengguo, LIU Bin, ZHANG Yun, YANG Qinmin, "A Hybrid Cleaning Scheduling Framework for Operations and Maintenance of Photovoltaic Systems", <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i>, 08 December 2021, doi: <a href="https://doi.org/10.1109/TSMC.2021.3131031">https://doi.org/10.1109/TSMC.2021.3131031</a>.</p>   |
| <b>WEI Peng</b>       | <p>#WEI Peng, LI Hanxiong, XIE Shengli, "Spatial-Construction-Based Abnormality Detection and Localization for Distributed Parameter Systems", <i>IEEE Transactions on Industrial Informatics</i>, 18(7), 20 October 2021, pp 4707-4714, doi: <a href="https://doi.org/10.1109/TII.2021.3121509">https://doi.org/10.1109/TII.2021.3121509</a>.</p>  |
|                       | <p>#WEI Peng, LI Hanxiong, "Spatial Construction for Modeling of Unknown Distributed Parameter Systems", <i>Industrial and Engineering Chemistry Research</i>, 60(42), 14 October 2021, pp 15184–15193, doi: <a href="https://doi.org/10.1021/acs.iecr.1c02115">https://doi.org/10.1021/acs.iecr.1c02115</a>.</p>   |
|                       | <p>#WEI Peng, LI Hanxiong, "Two-Dimensional Spatial Construction for Online Modeling of Distributed Parameter Systems", <i>IEEE Transactions on Industrial Electronics</i>, 69(10), 15 February 2022, pp 10227-10235, doi: <a href="https://doi.org/10.1109/TIE.2022.3150099">https://doi.org/10.1109/TIE.2022.3150099</a>.</p>   |
| <b>WEI Yingdong</b>   | <p>#WEI Yingdong, WEI Yiheng, WANG Yong, XIE Min, "Interval estimation for nabla fractional order linear time-invariant systems", <i>ISA Transactions</i>, 27 April 2022, doi: <a href="https://doi.org/10.1016/j.isatra.2022.04.031">https://doi.org/10.1016/j.isatra.2022.04.031</a>.</p>   |
| <b>WONG Ka Po</b>     | <p>#WONG Ka Po, CHAN Hoi Shou Alan, "Exploration of the socioecological determinants of Hong Kong workers' work-life balance: a grounded theory model", <i>International Journal of Environmental Research and Public Health</i>, 18(20), 13 October 2021, doi: <a href="https://doi.org/10.3390/ijerph182010732">https://doi.org/10.3390/ijerph182010732</a>.</p>  |
| <b>WU Zhiying</b>     | <p>#WU Zhiying, XIONG Junlin, XIE Min, "A Switching Method to Event-Triggered Output Feedback Control for Unmanned Aerial Vehicles over Cognitive Radio Networks", <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i>, 51(12), December 2021, pp 7530-7541, doi: <a href="https://doi.org/10.1109/TSMC.2020.2971726">https://doi.org/10.1109/TSMC.2020.2971726</a>.</p>                       |
| <b>YANG Jinzhao</b>   | <p>#KHAN Muhammad Mohsin, TSE Wai Tat Peter, #YANG Jinzhao, "A Novel Framework for Online Remaining Useful Life Prediction of an Industrial Slurry Pump", <i>Applied Sciences-Basel</i>, 12(10), 10 May 2022, doi: <a href="https://doi.org/10.3390/app12104839">https://doi.org/10.3390/app12104839</a>.</p>   |
| <b>YING Chengshuo</b> | <p>#NGUYEN Thi Minh Hoa, CHOW Andy, #YING Chengshuo, "Pareto routing and scheduling dynamic urban rail transit services with multi-objective cross entropy method", <i>Transportation Research Part E: Logistics and Transportation Review</i>, 156, 19 November 2021, doi: <a href="https://doi.org/10.1016/j.tre.2021.102544">https://doi.org/10.1016/j.tre.2021.102544</a>.</p>                            |
|                       | <p>#YING Chengshuo, CHOW Andy, #NGUYEN Thi Minh Hoa, CHIN Kwai Sang, "Multi-agent deep reinforcement learning for adaptive coordinated metro service operations with flexible train composition", <i>Transportation Research Part B: Methodological</i>, 161, 17 May 2022, pp 36-59, doi: <a href="https://doi.org/10.1016/j.trb.2022.05.001">https://doi.org/10.1016/j.trb.2022.05.001</a>.</p>              |

Section A: Publications of PhD Students

|                                  |  |
|----------------------------------|--|
| <b>ZHANG Ping</b>                | #ZHANG Ping, ZHU Xiaoyan, XIE Min, "A model-based reinforcement learning approach for maintenance optimization of degrading systems in a large state space", <i>Computers and Industrial Engineering</i> , 161, 17 August 2021, doi: <a href="https://doi.org/10.1016/j.cie.2021.107622">https://doi.org/10.1016/j.cie.2021.107622</a> .   |
| <b>ZHANG Yuqing</b>              | #ZHANG Yuqing, XIE Min, HE Yihai, DAI Wei, "Product quality monitoring approach considering non-geometric dimensioning data with rapid production process simulation", <i>International Journal of Production Research</i> , 30 August 2021, doi: <a href="https://doi.org/10.1080/00207543.2021.1966706">https://doi.org/10.1080/00207543.2021.1966706</a> .  |
| <b>ZHOU Yu</b>                   | #ZHOU Yu, DENG Hua, LI Hanxiong, "Optimal-Sensing-Based Recursive Estimation for Temperature Distribution of Pouch-Type Batteries", <i>IEEE Transactions on Transportation Electrification</i> , 02 May 2022, doi: <a href="https://doi.org/10.1109/TTE.2022.3171857">https://doi.org/10.1109/TTE.2022.3171857</a> .<br>#ZHOU Yu, LI Hanxiong, XIE Sheng-Li, "Space-decomposition-based Spectral Modeling for Distributed Battery Thermal Dynamics", <i>IEEE Transactions on Transportation Electrification</i> , 8(2), 02 November 2021, pp 1634-1641, doi: <a href="https://doi.org/10.1109/TTE.2021.3124894">https://doi.org/10.1109/TTE.2021.3124894</a> .   |
| <b>ZHU Feng</b>                  | FENG Jianshe, #ZHU Feng, LI Pin, DAVARI Hossein, LEE Jay, "Development of An Integrated Framework for Cyber-Physical System (CPS)-Enabled Rehabilitation System", <i>International Journal of Prognostics and Health Management</i> , 12(4), 24 August 2021, doi: <a href="https://doi.org/10.36001/IJPHM.2021.v12i4.2913">https://doi.org/10.36001/IJPHM.2021.v12i4.2913</a> .<br>FAN Wei, CHEN Zhenqiang, LI Yongxiang, #ZHU Feng, XIE Min, "A Reinforced Noise Resistant Correlation Method for Bearing Condition Monitoring", <i>IEEE Transactions on Automation Science and Engineering</i> , 26 May 2022, doi: <a href="https://doi.org/10.1109/TASE.2022.3177010">https://doi.org/10.1109/TASE.2022.3177010</a> . |
| <b>Conference papers</b>         |  |
| <b>AHMED Ahmed Maged Mohamed</b> | HARIDY Salah, ALKHATIB Fathy, SHAMSUZZAMAN Mohammad, AL OWAD Ali, #MAGED Ahmed, "Development of CUSUM Scheme for Monitoring Multiple Attributes", <i>2022 Advances in Science and Engineering Technology International Conferences (ASET)</i> , Dubai, United Arab Emirates, 21-24 February 2022, (ISBN: 9781665418010,9781665418027).   |
| <b>CUI Di</b>                    | ZHANG Dingcheng, #CUI Di, HAMADACHE Moussa, STEWART Edward, "Degradation Assessment of Train Axle Bearing based on A Deep Transfer Learning", <i>Proceedings of the 31st European Safety and Reliability Conference (ESREL 2021)</i> , Jean-Monnier Congress Centre (in-person & Virtual), Angers, France, 19-23 September 2021, pp 3179-3184, (ISBN: 978-981-18-2016-8).  |
| <b>DU Jianzhong</b>              | #DU Jianzhong, GAO Siyang, CHEN Chun-Hung, "A Simulation Optimization Approach for Precision Medicine", <i>AI and Analytics for Public Health - Proceedings of the 2020 INFORMS International Conference on Service Science</i> , Virtual, PA, United States, 19-21 December 2020, pp 281-289, (ISBN: 978-3-030-75166-1,978-3-030-75168-5,9783030751654).  |
| <b>LEI Jingzhe</b>               | LING Chunyan, #LEI Jingzhe, "Safety Evaluation of the Time-variant Structure under Epistemic Uncertainty", <i>2021 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)</i> , Virtual, Singapore, 13-16 December 2021, pp 1588-1592, (ISBN: 9781665437714,9781665437721).   |
| <b>LI Yanwen</b>                 | #LI Yanwen, GAO Siyang, "On the Convergence of Optimal Computing Budget Allocation Algorithms", <i>2021 Winter Simulation Conference (WSC)</i> , JW Marriott Desert Ridge (Face-to-face & Virtual), Phoenix, United States, 13-15 December 2021, (ISBN: 978-1-6654-3312-9,9781665433112).  |
| <b>NGUYEN Thi Minh Hoa</b>       | #NGUYEN Thi Minh Hoa, CHOW Andy, "Multi-objective transit network design and scheduling", <i>25th International Conference of Hong Kong Society for Transportation Studies (HKSTS 2021)</i> , Hong Kong Society for Transportation Studies (HKSTS) and Department of Civil Engineering, Department of Urban Planning and Design, The University of Hong Kong, Hong Kong, 09-10 December 2021.  |
| <b>WONG Ka Po</b>                | #WONG Ka Po, TEH Pei-Lee, AU Tsz Wang, "Work-Life Imbalance, Health and Wellbeing of Older Workers: A Meta-analysis", <i>Cross-Cultural Design. Applications in Arts, Learning, Well-being, and Social Development - 13th International Conference, CCD 2021, Held as Part of the 23rd HCI International Conference, HCII 2021, Virtual Event, July 24–29, 2021</i> ,  |

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|                          |  |
|--------------------------|--|
|                          | <i>Proceedings, Part II</i> , Virtual, 24-29 July 2021, pp 230-240, (ISBN: 9783030770761,9783030770778).   |
| <b>WU Xinyue</b>         | <u>ZHUANG Li</u> , <u>CHOW Andy</u> , # <u>WU Xinyue</u> , LAM W.H.K., MA W., CHUNG E., WONG S.C., "Interval prediction of urban journey times with deep learning", <i>2021 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2021)</i> , Virtual, Singapore, 13-16 December 2021, pp 52.  |
|                          | # <u>WU Xinyue</u> , WONG S.C., <u>CHOW Andy</u> , <u>ZHUANG Li</u> , LAM W.H.K., MA W., CHUNG E., "Integration of heterogeneous traffic data for urban journey time estimation", <i>2021 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM2021)</i> , Virtual, Singapore, 13-16 December 2021, pp 51.  |
| <b>YU Wing Lam</b>       | # <u>YU Wing Lam</u> , <u>CHAN Hoi Shou Alan</u> , # <u>KO Tsun Hon</u> , "Age and Gender Differences in Mobile Game Acceptance Amongst Older Adults", <i>Human Aspects of IT for the Aged Population. Design, Interaction and Technology Acceptance - 8th International Conference, ITAP 2022, Held as Part of the 24th HCI International Conference, HCII 2022, Virtual Event, June 26 – July 1, 2022, Proceedings, Part I</i> , Virtual, 26 June - 01 July 2022, pp 641-657, (ISBN: 978-3-031-05580-5,978-3-031-05581-2).       |
|                          | # <u>YU Wing Lam</u> , <u>HO Tsun Hang</u> , <u>CHAN Hoi Shou Alan</u> , "Factors Affecting Mobile Game Genre Preference for Chinese Older Adults in Hong Kong", <i>Advances in Human Factors and Ergonomics in Healthcare and Medical Devices - Proceedings of the AHFE 2021 Virtual Conference on Human Factors and Ergonomics in Healthcare and Medical Devices, July 25-29, 2021, USA</i> , Virtual, United States, 25-29 July 2021, pp 394-401, (ISBN: 9783030807436,9783030807443).  |
| <b>ZHU Feng</b>          | FENG Jianshe, # <u>ZHU Feng</u> , LIU Zongchang, ZHANG Jianyu, HUA Lin, WANG Shaojie, <u>XIE Min</u> , "Trace Abstraction: A Novel Method to Enhance Fault Detection in Semiconductor Manufacturing Processes with An Optimization Approach", <i>2021 Global Reliability and Prognostics and Health Management (PHM-Nanjing)</i> , Nanjing University of Aeronautics and Astronautics and China Instrument and Control Society, Nanjing, China, 15-17 October 2021, (ISBN: 978-1-6654-0130-2,978-1-6654-0131-9,978-1-6654-2979-5). |
| <b>All other outputs</b> |  |
| <b>CHANG Fangrong</b>    | # <u>CHANG Fangrong</u> , <i>The Heterogeneity and Endogeneity Issues in the Powered Two- and Three-Wheeled Vehicle (PTW) Crash-Related Injury Severity Analysis</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 08 December 2021.  |
| <b>CHANG Haoliang</b>    | # <u>CHANG Haoliang</u> , <i>People-centric Methods for Transportation Information Analysis and System Evaluation Using Social Media Data</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 05 May 2022.  |
| <b>CHEN Liqun</b>        | # <u>CHEN Liqun</u> , <i>Multi-Dimensional Spatiotemporal Modeling for Distributed Parameter Systems</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 04 August 2021.  |
| <b>DU Jianzhong</b>      | # <u>DU Jianzhong</u> , <i>Simulation-Based Decision Making with Covariates</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 27 July 2021.   |
| <b>MENG Xiangcheng</b>   | # <u>MENG Xiangcheng</u> , <i>Investigating the Safety Consciousness and Safety Citizenship Behaviour of Construction Workers in Mainland China and Hong Kong: The Individual and Organizational Channels for Improving Personnel Safety Management</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 03 August 2021.   |
|                          | # <u>MENG Xiangcheng</u> , OSH Best Project Scholarship, Dr Xiang-cheng MENG, supervised by Dr Alan CHAN, won the OSH Best Project Scholarship for his project entitled "Investigating the Safety Consciousness and Safety Citizenship Behaviour of Construction Workers in Mainland China and Hong Kong: The Individual and Organizational Channels for Improving Personnel Safety Management". The Occupational Safety & Health Council offers the scholarship to encourage students to appreciate the importance of             |

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|   |   |
|---|---|
|   | occupational safety and health in their studies., Occupational Safety & Health Council, 20 May 2022.  |
| <b>NG Kim Ming</b>                                      | # <u>NG Kim Ming</u> , <i>A New Optical Device Designed for a Non-contact and 3D Laser-generated Guided Wave System With Effective Signal Processing Algorithm to Inspect Rail Cracks</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 18 May 2022.   |
| <b>SU Zicheng</b>                                       | # <u>SU Zicheng</u> , HKSTS Outstanding Student Paper Award, Mr. Zicheng SU has received the HKSTS Outstanding Student Paper Award 2021 for his work on adaptive transit signal control for bus service reliability via reinforcement learning. The award was established by the Hong Kong Society for Transportation Studies (HKSTS) in 2003 to recognize and foster excellence in local and international transportation research. , 25th International Conference of Hong Kong Society for Transportation Studies (HKSTS 2021), Hong Kong Society for Transportation Studies (HKSTS), Hong Kong, 10 December 2021. |
| <b>WANG Zhonghao</b>                                    | # <u>WANG Zhonghao</u> , <i>Improved Monitoring of Dust Deposition and Optimal Cleaning Scheduling for PV Systems</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 15 February 2022.  |
| <b>WONG Ka Po</b>                                       | # <u>WONG Ka Po</u> , <i>Work-Life Balance: Socioecological Determinants and Outcomes among Workers in Hong Kong</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 19 July 2021.   |
| <b>WU Zhiying</b>                                       | # <u>WU Zhiying</u> , <i>Event-triggered Control for Networked Control Systems and Its Application</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 30 July 2021.   |
| <b>YING Chengshuo</b>                                   | # <u>YING Chengshuo</u> , <i>Metro Train Scheduling with Deep Reinforcement Learning Approaches</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 30 September 2021.   |
| <b>ZHANG Ping</b>                                       | # <u>ZHANG Ping</u> , <i>Data-driven Methods for System Reliability Analysis and Maintenance Optimization</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 03 August 2021.  |
| <b>DEPARTMENT OF ARCHITECTURE AND CIVIL ENGINEERING</b> |   |
| <b>Scholarly books, monographs and chapters</b>         |   |
| <b>ADHIKARI MUDIYANSELAGE Aravinda Shanaka Adhikari</b> | MEMON Shoeb Ahmed, SUMANARATHNA Nipuni, # <u>ADHIKARI MUDIYANSELAGE Aravinda Shanaka Adhikari</u> , "Improving Students' Learning Experience Using Simulated Environments in Applied Degree Education in Architecture, Engineering, and Construction", <i>Applied Degree Education and the Future of Learning</i> , Hong Christina and Ma Will W. K. (eds), Springer , ISBN: 9789811698118,9789811698125, Singapore, 04 June 2022, pp 235-252.  |
| <b>CAO Nan</b>  | # <u>CAO Nan</u> , <u>CHEUNG Sai On</u> , "The Paradox of Power Asymmetry and Voluntary Participation in Construction Dispute Mediation", <i>Construction Dispute Research Expanded</i> , Cheung Sai On (ed), Springer, Cham, ISBN: 978-3-030-80255-4,978-3-030-80256-1, 31 August 2021, pp 229-254.  |
| <b>CHEN Yingting</b>                                    | # <u>CHEN Yingting</u> , <u>XUE Qiuli Charlie</u> , <u>DING Guanghui</u> , # <u>GAO Yizhuo</u> , "Schooling for the Future—Aided Education Buildings", <i>Exporting Chinese Architecture - History, Issues and "One Belt One Road"</i> , Ding Guanghui and Xue Charlie Qiuli (eds), Springer, ISBN: 978-981-19-2785-0,978-981-19-2786-7, Singapore, 2022, pp 155-185.   |
| <b>GAO Yizhuo</b>                                       | # <u>CHEN Yingting</u> , <u>XUE Qiuli Charlie</u> , <u>DING Guanghui</u> , # <u>GAO Yizhuo</u> , "Schooling for the Future—Aided Education Buildings", <i>Exporting Chinese Architecture - History, Issues and "One Belt One Road"</i> , Ding Guanghui and Xue Charlie Qiuli (eds), Springer, ISBN: 978-981-19-2785-0,978-981-19-2786-7, Singapore, 2022, pp 155-185.   |
| <b>LIN Sen</b>  | # <u>LIN Sen</u> , <u>CHEUNG Sai On</u> , "A Note on Intention to Settle", <i>Construction Dispute Research Expanded</i> , Cheung Sai On (ed), Springer, Cham, ISBN: 978-3-030-80255-4,978-3-030-80256-1, 31 August 2021, pp 201-227.   |
| <b>SUN Cong</b>   | <u>XUE Qiuli Charlie</u> , # <u>SUN Cong</u> , "Land reclamation in the making of Hong Kong", <i>The Routledge Handbook of Infrastructure Design - Global Perspectives from Architectural</i>   |

Section A: Publications of PhD Students

|                                     |  |
|-------------------------------------|--|
|                                     | <i>History</i> , Heathcott Joseph (ed), Routledge, ISBN: 9780367554910,9781003093756,9781032188393, New York, 01 February 2022, pp 294-305.  |
| <b>YANG Wenjie</b>                  | #YANG Wenjie, WEI Chun-Xiang, LU Hong-Dian, YANG Wei, YUEN Kwok Kit Richard, "Flame Retardant Polyurethane Nanocomposites", <i>Materials and Chemistry of Flame-Retardant Polyurethanes</i> , Vol 1: A Fundamental Approach, Gupta Ram K. (ed), American Chemical Society, ISBN: 9780841298019,9780841298026, 15 November 2021, pp 221-238.  |
| <b>ZORDAN Mirna</b>                 | ZILIO Luca, #ZORDAN Mirna, "Spazio pubblico per/da rigenerare", <i>CITTA' E LAVORO - SPAZI, ATTORI E PRATICHE DELLA TRANSIZIONE TRA MESTRE E MARGHERA</i> , Faraone Claudia and Tosi Maria Chiara (eds), Quodlibet, ISBN: 9788822905819,9788822912503, Italy, July 2021, pp 164-169.   |
| <b>Journal publications</b>         |  |
| <b>ABDOH Daud Ali Ahmad</b>         | #ABDOH Daud Ali Ahmad, #YIN Binbin, LIEW Kim Meow, "A phase-field thermomechanical framework for modeling failure and crack evolution in glass panes under fire", <i>Computer Methods in Applied Mechanics and Engineering</i> , 385, 06 August 2021, doi: <a href="https://doi.org/10.1016/j.cma.2021.114068">https://doi.org/10.1016/j.cma.2021.114068</a> .   |
| <b>ADEAGBO Mujib Olamide</b>        | #ADEAGBO Mujib Olamide, LAM Heung Fai, #CHU Yung Jeh, "Bayesian System Identification of Rail-Sleeper-Ballast System in Time and Modal Domains: Comparative Study", <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 8(3), 22 April 2022, doi: <a href="https://doi.org/10.1061/AJRU6.0001242">https://doi.org/10.1061/AJRU6.0001242</a> .   |
|                                     | WU Qilun, CAO Weidong, LAM Heung Fai, #ADEAGBO Mujib Olamide, "A data-driven method for real-time compaction quality evaluation of a cement-stabilized base layer", <i>Advances in Structural Engineering</i> , 24 May 2022, doi: <a href="https://doi.org/10.1177/13694332221094633">https://doi.org/10.1177/13694332221094633</a> .  |
|                                     | FANG Chen, HONG-JUN Liu, LAM Heung Fai, #ADEAGBO Mujib Olamide, PENG Huayi, "Practical model updating of the Ting Kau Bridge through the MCMC-based Bayesian algorithm utilizing measured modal parameters", <i>Engineering Structures</i> , 254, 10 January 2022, doi: <a href="https://doi.org/10.1016/j.engstruct.2022.113839">https://doi.org/10.1016/j.engstruct.2022.113839</a> .  |
|                                     | LAM Heung Fai, #ADEAGBO Mujib Olamide, "An enhanced sequential sensor optimization scheme and its application in the system identification of a rail-sleeper-ballast system", <i>Mechanical Systems and Signal Processing</i> , 163, 03 July 2021, doi: <a href="https://doi.org/10.1016/j.ymsp.2021.108188">https://doi.org/10.1016/j.ymsp.2021.108188</a> .  |
|                                     | FANG C, LIU HJ, LAM Heung Fai, #ADEAGBO Mujib Olamide, PENG Huayi, "Practical model updating of the Ting Kau Bridge through the MCMC-based Bayesian algorithm utilizing measured modal parameters", <i>Engineering Structures</i> , 254(113839), 01 March 2022.  |
|                                     | #ADEAGBO Mujib Olamide, LAM Heung Fai, HU Qin, "On the selection of the most plausible non-linear axial stress-strain model for railway ballast under different impulse magnitudes", <i>Structural Health Monitoring</i> , 21(4), 29 July 2021, pp 1447-1473, doi: <a href="https://doi.org/10.1177/14759217211033968">https://doi.org/10.1177/14759217211033968</a> .   |
|                                     | HU Qin, SHEN Y.J., ZHU H. P., LAM Heung Fai, #ADEAGBO Mujib Olamide, "A feasibility study on void detection of cement-emulsified asphalt mortar for slab track system utilizing measured vibration data", <i>Engineering Structures</i> , 245, 16 July 2021, doi: <a href="https://doi.org/10.1016/j.engstruct.2021.112349">https://doi.org/10.1016/j.engstruct.2021.112349</a> .  |
|                                     |  |
| <b>AGHIMIEN Emmanuel Imuetinyan</b> | #AGHIMIEN Emmanuel Imuetinyan, LI Hin Wa, "Application of luminous efficacies for daylight illuminance data generation in subtropical Hong Kong", <i>Smart and Sustainable Built Environment</i> , 06 April 2022, doi: <a href="https://doi.org/10.1108/SASBE-08-2021-0146">https://doi.org/10.1108/SASBE-08-2021-0146</a> .   |
|                                     | ALABI Tobi Michael, #AGHIMIEN Emmanuel Imuetinyan, AGBAJOR Favour D., YANG Zaiyue, LU Lin, ADEOYE Adebusola R., GOPALUNI Bhushan, "A review on the integrated optimization techniques and machine learning approaches for modeling, prediction, and decision making on integrated energy systems", <i>Renewable Energy</i> , 194, 03 June 2022, pp 822-849, doi: <a href="https://doi.org/10.1016/j.renene.2022.05.123">https://doi.org/10.1016/j.renene.2022.05.123</a> . |
| <b>AHMED Khursheed</b>              | LEUNG Mei-yung, #AHMED Khursheed, FAMA KIN Ibukun Oluwadara, "Impact of Mindfulness-based Stress Reduction Intervention on the Performance of Construction Professionals", <i>Engineering, Construction and Architectural Management</i> , 2022.   |



Section A: Publications of PhD Students

|              |   |
|--------------|---|
|              | #AHMED Khursheed, LEUNG Mei-yung, #OJO Lekan Damilola, "An Exploratory Study to Identify Key Stressors of Ethnic Minority Workers in the Construction Industry", <i>Journal of Construction Engineering and Management - ASCE</i> , 148(5), 09 March 2022, doi: <a href="https://doi.org/10.1061/(ASCE)CO.1943-7862.0002261">https://doi.org/10.1061/(ASCE)CO.1943-7862.0002261</a> .                                 |
| AHMED Wisal  | GUL Akhtar, ALAM Bashir, IQBAL Muhammad Junaid, #AHMED Wisal, SHAHZADA Khan, JAVED Muhammad Haris, KHAN Ezaz Ali, "Impact of length and percent dosage of recycled steel fibers on the mechanical properties of concrete", <i>Civil Engineering Journal (Iran)</i> , 7(10), 01 October 2021, pp 1650-1666, doi: <a href="https://doi.org/10.28991/cej-2021-03091750">https://doi.org/10.28991/cej-2021-03091750</a> . |
|              | #AHMED Wisal, LIM C W, "Effective Recycling of Disposable Medical Face Masks for Sustainable Green Concrete via a New Fiber Hybridization Technique", <i>Construction and Building Materials</i> , 344, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2022.128245">https://doi.org/10.1016/j.conbuildmat.2022.128245</a> .  |
| AKBAR Arslan | IDREES Maria, #AKBAR Arslan, SAEED Farhan, SALEEM Huma, HUSSIAN Tousif, VATIN Nikolai Ivanovich, "Improvement in Durability and Mechanical Performance of Concrete Exposed to Aggressive Environments by Using Polymer", <i>Materials</i> , 15(11), 24 May 2022, doi: <a href="https://doi.org/10.3390/ma15113751">https://doi.org/10.3390/ma15113751</a> .   |
|              | IDREES Maria, #AKBAR Arslan, MOHAMED Abdeliazim Mustafa, FATHI Dina, SAEED Farhan, "Recycling of Waste Facial Masks as a Construction Material, a Step towards Sustainability", <i>Materials</i> , 15(5), 28 February 2022, doi: <a href="https://doi.org/10.3390/ma15051810">https://doi.org/10.3390/ma15051810</a> .  |
|              | IDREES Maria, CHAUDHARY Husnain Ahmad, #AKBAR Arslan, MOHAMED Abdeliazim Mustafa, FATHI Dina, "Effect of Silicon Carbide and Tungsten Carbide on Concrete Composite", <i>Materials</i> , 15(6), 10 March 2022, doi: <a href="https://doi.org/10.3390/ma15062061">https://doi.org/10.3390/ma15062061</a> .   |
|              | FAROOQ Furqan, #JIN Xin, FAISAL JAVED Muhammad, #AKBAR Arslan, IZHAR SHAH Muhammad, ASLAM Fahid, ALYOUSEF Rayed, "Geopolymer concrete as sustainable material: A state of the art review", <i>Construction and Building Materials</i> , 306, 13 September 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.124762">https://doi.org/10.1016/j.conbuildmat.2021.124762</a> .                              |
| BIE Zhiwu    | #ZHU Jiaqi, SUN Ligang, #BIE Zhiwu, TIAN Xiaobao, HE Xiaoqiao, "Tailored tensile properties of CoCrNi medium entropy alloy by tuning the elemental distribution", <i>Journal of Alloys and Compounds</i> , 897, 09 December 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.163171">https://doi.org/10.1016/j.jallcom.2021.163171</a> .  |
| CAO Nan      | #CAO Nan, CHEUNG Sai On, "THE VOLUNTARINESS OF DISPUTANTS IN CONSTRUCTION MEDIATION", <i>Proceedings of International Structural Engineering and Construction</i> , 9(1), 2022, pp LDR-02-1-LDR-02-6.   |
| CHAN Pak Wai | #CHAN Pak Wai, LAI K. K., LI Qiusheng, "High-resolution (40 m) simulation of a severe case of low-level windshear at the Hong Kong International Airport—Comparison with observations and skills in windshear alerting", <i>Meteorological Applications</i> , 28(4), 10 July 2021, doi: <a href="https://doi.org/10.1002/met.2020">https://doi.org/10.1002/met.2020</a> .   |
|              | #CHAN Pak Wai, LAI Kai Kwong, LI Qiusheng, "High-resolution simulation of a severe case of low-level windshear at the Hong Kong International Airport: Turbulence intensity and sensitivity to turbulence parameterization scheme", <i>Atmospheric Science Letters</i> , 13 March 2022, doi: <a href="https://doi.org/10.1002/asl.1090">https://doi.org/10.1002/asl.1090</a> .  |
|              | #HE Junyi, #CHAN Pak Wai, LI Qiusheng, LI L., ZHANG L., YANG H. L., "Observation of vertical eddy diffusivity and mixing length during landfalling Super Typhoons", <i>Journal of Wind Engineering &amp; Industrial Aerodynamics</i> , 219, 23 October 2021, doi: <a href="https://doi.org/10.1016/j.jweia.2021.104816">https://doi.org/10.1016/j.jweia.2021.104816</a> .   |
|              | #HE Junyi, #CHAN Pak Wai, LI Qiusheng, LI L., ZHANG L., YANG H. L., "Observations of wind and turbulence structures of Super Typhoons Hato and Mangkhut over land from a 356 m high meteorological tower", <i>Atmospheric Research</i> , 265, 03 November 2021, doi: <a href="https://doi.org/10.1016/j.atmosres.2021.105910">https://doi.org/10.1016/j.atmosres.2021.105910</a> .                                    |
|              | #CHAN Pak Wai, LI Qiusheng, "Observation and numerical simulation of a dust devil at the Hong Kong International Airport", <i>Meteorologische Zeitschrift</i> , 30(6), 06 September 2021, pp 533-543, doi: <a href="https://doi.org/10.1127/metz/2021/1095">https://doi.org/10.1127/metz/2021/1095</a> .  |

Section A: Publications of PhD Students

|                        |  |
|------------------------|--|
| <b>CHEN Guangchong</b> | #CHEN Guangchong, CHEN Jiayu, TANG Yuchun, LI Qiming, LUO Xiaowei, "Identifying Effective Collaborative Behaviors in Building Information Modeling-Enabled Construction Projects", <i>Journal of Construction Engineering and Management</i> , 148(6), 18 March 2022, doi: <a href="https://doi.org/10.1061/(ASCE)CO.1943-7862.0002270">https://doi.org/10.1061/(ASCE)CO.1943-7862.0002270</a> .                                   |
| <b>CHEN Huaguo</b>     | #CHEN Huaguo, YANG Jianjun, #CHEN Xinhong, "A convolution-based deep learning approach for estimating compressive strength of fiber reinforced concrete at elevated temperatures", <i>Construction and Building Materials</i> , 313, 10 November 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.125437">https://doi.org/10.1016/j.conbuildmat.2021.125437</a> .  |
|                        | #CHEN Huaguo, CHOW Cheuk Lun, LAU Denvid, "Deterioration Mechanisms and Advanced Inspection Technologies of Aluminum Windows", <i>Materials</i> , 15(1), 04 January 2022, doi: <a href="https://doi.org/10.3390/ma15010354">https://doi.org/10.3390/ma15010354</a> .   |
|                        | #CHEN Huaguo, QIN Renyuan, LAU Denvid, "Recycling used engine oil in concrete design mix: An ecofriendly and feasible solution", <i>Journal of Cleaner Production</i> , 329, 05 November 2021, doi: <a href="https://doi.org/10.1016/j.jclepro.2021.129555">https://doi.org/10.1016/j.jclepro.2021.129555</a> .  |
| <b>CHEN Long</b>       | #CHEN Long, LU Yi, LIU Yanfang, YANG Linchuan, PENG Mingjun, LIU Yaolin, "Association between built environment characteristics and metro usage at station level with a big data approach", <i>Travel Behaviour and Society</i> , 28, 01 March 2022, pp 38-49, doi: <a href="https://doi.org/10.1016/j.tbs.2022.02.007">https://doi.org/10.1016/j.tbs.2022.02.007</a> .  |
|                        | #CHEN Long, ZHAO Lingyu, XIAO Yang, LU Yi, "Investigating the spatiotemporal pattern between the built environment and urban vibrancy using big data in Shenzhen, China", <i>Computers, Environment and Urban Systems</i> , 95, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.compenvurbsys.2022.101827">https://doi.org/10.1016/j.compenvurbsys.2022.101827</a> .  |
|                        | YANG Haoran, ZHANG Qinran, HELBICH Marco, LU Yi, HE Dongsheng, ETTEMA Dick, #CHEN Long, "Examining non-linear associations between built environments around workplace and adults' walking behaviour in Shanghai, China", <i>Transportation Research Part A: Policy and Practice</i> , 155, 29 November 2021, pp 234-246, doi: <a href="https://doi.org/10.1016/j.tra.2021.11.017">https://doi.org/10.1016/j.tra.2021.11.017</a> . |
|                        | HUA Junyi, CAI Meng, SHI Yuan, REN Chao, XIE Jing, CHUNG Lamuel Chi Hay, LU Yi, #CHEN Long, YU Zhaowu, WEBSTER Chris, "Investigating pedestrian-level greenery in urban forms in a high-density city for urban planning", <i>Sustainable Cities and Society</i> , 80, 04 February 2022, doi: <a href="https://doi.org/10.1016/j.scs.2022.103755">https://doi.org/10.1016/j.scs.2022.103755</a> .                                   |
|                        | #CHEN Long, LU Yi, YE Yu, XIAO Yang, YANG Linchuan, "Examining the association between the built environment and pedestrian volume using street view images", <i>Cities</i> , 127, 11 May 2022, doi: <a href="https://doi.org/10.1016/j.cities.2022.103734">https://doi.org/10.1016/j.cities.2022.103734</a> .   |
|                        | #JIANG Yuxiao, #CHEN Long, GREKOUSIS George, XIAO Yang, YE Yu, LU Yi, "Spatial disparity of individual and collective walking behaviors: A new theoretical framework", <i>Transportation Research Part D: Transport and Environment</i> , 101, 17 November 2021, doi: <a href="https://doi.org/10.1016/j.trd.2021.103096">https://doi.org/10.1016/j.trd.2021.103096</a> .  |
|                        | HE Dongsheng, MIAO Jia, LU Yi, SONG Yimeng, #CHEN Long, LIU Ye, "Urban greenery mitigates the negative effect of urban density on older adults' life satisfaction: Evidence from Shanghai, China", <i>Cities</i> , 124, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.cities.2022.103607">https://doi.org/10.1016/j.cities.2022.103607</a> .  |
|                        | #CHEN Long, LU Yi, YE Yu, XIAO Yang, YANG Linchuan, "Examining the association between the built environment and pedestrian volume using street view images", <i>Cities</i> , 127, 11 May 2022, doi: <a href="https://doi.org/10.1016/j.cities.2022.103734">https://doi.org/10.1016/j.cities.2022.103734</a> .   |
| <b>CHEN Zhenyu</b>     | YU Yue, WANG Ning, #CHEN Zhenyu, "Amplitude modulation control method for bursting dynamics under time-delayed feedback", <i>JVC/Journal of Vibration and Control</i> , 02 August 2021, doi: <a href="https://doi.org/10.1177/10775463211035934">https://doi.org/10.1177/10775463211035934</a> .   |
|                        | #CHEN Zhenyu, #WANG Guifeng, #MAO Yida, LIM C W, "New Metamaterial Mathematical Modeling of Acoustic Topological Insulators via Tunable Underwater Local Resonance", <i>Applied Mathematical Modelling</i> , 108, 29 March 2022, pp 258-274, doi: <a href="https://doi.org/10.1016/j.apm.2022.03.023">https://doi.org/10.1016/j.apm.2022.03.023</a> .  |
|                        | YU Yue, ZHANG Cong, #CHEN Zhenyu, ZHANG Zhengdi, "Canard-induced mixed mode oscillations as a mechanism for the Bonhoeffer-van der Pol circuit under parametric perturbation", <i>Circuit World</i> , 21 December 2021, doi: <a href="https://doi.org/10.1108/CW-07-2020-0132">https://doi.org/10.1108/CW-07-2020-0132</a> .   |
|                        | #YAW Zoe, ZHOU Weijian, #CHEN Zhenyu, LIM C W, "Stiffness tuning of a functional-switchable active coding elastic metasurface", <i>International Journal of Mechanical Sciences</i> , 207, 13 July 2021, doi: <a href="https://doi.org/10.1016/j.ijmecsci.2021.106654">https://doi.org/10.1016/j.ijmecsci.2021.106654</a> .  |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | <p>#MUHAMMAD -, LIM C W, #YAW Zoe, #CHEN Zhenyu, "Periodic and aperiodic 3-D composite metastructures with ultrawide bandgap for vibration and noise control", <i>Composite Structures</i>, 287, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.compstruct.2022.115324">https://doi.org/10.1016/j.compstruct.2022.115324</a>.</p>  |
|                      | <p>#CHEN Zhenyu, #MUHAMMAD -, #WANG Xiangyu, LIM C W, "Low frequency topologically protected wave transport in sinusoidal lightweight acoustic metamaterials", <i>Journal of Applied Physics</i>, 130(4), 29 July 2021, doi: <a href="https://doi.org/10.1063/5.0050963">https://doi.org/10.1063/5.0050963</a>.</p>   |
|                      | <p>#CHEN Zhenyu, LIM C W, SHI Fan, "地震超材料: 从自然结构到新型人工结构", <i>科学通报</i>, 67(12), 01 July 2021, pp 1264-1278, doi: <a href="https://doi.org/10.1360/TB-2021-0517">https://doi.org/10.1360/TB-2021-0517</a>.</p>  |
|                      | <p>CHEN Daomin, WANG Ning, #CHEN Zhenyu, YU Yue, "Parametrically Excited Vibrations in a Nonlinear Damped Triple-Well Oscillator with Resonant Frequency", <i>Journal of Vibrational Engineering &amp; Technologies</i>, 10(2), 27 October 2021, pp 781-788, doi: <a href="https://doi.org/10.1007/s42417-021-00408-5">https://doi.org/10.1007/s42417-021-00408-5</a>.</p>  |
|                      | <p>#CHEN Zhenyu, #WANG Guifeng, LIM C W, "Periodically alternated elastic support induced topological phase transition in phononic crystal beam systems", <i>International Journal of Solids and Structures</i>, 239-240, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.ijsolstr.2022.111461">https://doi.org/10.1016/j.ijsolstr.2022.111461</a>.</p>  |
| <b>CHENG Baoquan</b> | <p>#CHENG Baoquan, HUANG Jianling, LU Kun, LI Jianchang, GAO Guangbo, WANG Tingpeng, CHEN Huihua, "BIM-enabled life cycle assessment of concrete formwork waste reduction through prefabrication", <i>Sustainable Energy Technologies and Assessments</i>, 53(Part A), 22 June 2022, doi: <a href="https://doi.org/10.1016/j.seta.2022.102449">https://doi.org/10.1016/j.seta.2022.102449</a>.</p>                |
|                      | <p>LIU Xiaojun, YU Mingqi, #CHENG Baoquan, FU Hanliang, GUO Xiaotong, "Renting vs. Owning: Public Stereotypes of Housing Consumption Decision From the Perspective of Confucian Culture: Evidence From Event-Related Potentials", <i>Frontiers in Psychology</i>, 13, 28 April 2022, doi: <a href="https://doi.org/10.3389/fpsyg.2022.816004">https://doi.org/10.3389/fpsyg.2022.816004</a>.</p>                  |
|                      | <p>#CHENG Baoquan, HUANG Jianling, LI Jianchang, CHEN Shuhang, CHEN Huihua, "Improving Contractors' Participation of Resource Utilization in Construction and Demolition Waste through Government Incentives and Punishments", <i>Environmental Management</i>, 70(4), 06 April 2022, pp 666-680, doi: <a href="https://doi.org/10.1007/s00267-022-01617-8">https://doi.org/10.1007/s00267-022-01617-8</a>.</p>   |
|                      | <p>#CHENG Baoquan, #FAN Chaojie, FU Hanliang, HUANG Jianling, CHEN Huihua, LUO Xiaowei, "Measuring and Computing Cognitive Statuses of Construction Workers Based on Electroencephalogram: A Critical Review", <i>IEEE Transactions on Computational Social Systems</i>, 07 April 2022, doi: <a href="https://doi.org/10.1109/TCSS.2022.3158585">https://doi.org/10.1109/TCSS.2022.3158585</a>.</p>               |
|                      | <p>#CHENG Baoquan, LUO Xiaowei, MEI Xiang, CHEN Huihua, HUANG Jianling, "A Systematic Review of Eye-Tracking Studies of Construction Safety", <i>Frontiers in Neuroscience</i>, 16, 26 April 2022.</p>  |
|                      | <p>#CHENG Baoquan, HUANG Jianling, GUO Ziliang, LI Jianchang, CHEN Huihua, "Towards sustainable construction through better construction and demolition waste management practices: a SWOT analysis of Suzhou, China", <i>International Journal of Construction Management</i>, 06 June 2022, doi: <a href="https://doi.org/10.1080/15623599.2022.2081406">https://doi.org/10.1080/15623599.2022.2081406</a>.</p> |
| <b>CHENG Kaiyu</b>   | <p>#CHENG Kaiyu, NEISCH Paulina Maria, "A New Perspective on Eclectic Attributes in Architecture: Taking Eclectic Architecture in Beijing and Hong Kong as An Example", <i>Journal of Asian Architecture and Building Engineering</i>, 06 May 2022, doi: <a href="https://doi.org/10.1080/13467581.2022.2074017">https://doi.org/10.1080/13467581.2022.2074017</a>.</p>   |
| <b>CHU Yung Jeh</b>  | <p>DAI S. F., LIU H. J., #CHU Yung Jeh, LAM Heung Fai, PENG Huayi, "Impact of corner modification on wind characteristics and wind energy potential over flat roofs of tall buildings", <i>Energy</i>, 241, 15 December 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122920">https://doi.org/10.1016/j.energy.2021.122920</a>.</p>   |
|                      | <p>#ADEAGBO Mujib Olamide, LAM Heung Fai, #CHU Yung Jeh, "Bayesian System Identification of Rail-Sleeper-Ballast System in Time and Modal Domains: Comparative Study", <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i>, 8(3), 22 April 2022, doi: <a href="https://doi.org/10.1061/AJRUA6.0001242">https://doi.org/10.1061/AJRUA6.0001242</a>.</p>             |

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|                       |  |
|-----------------------|--|
| <b>CUI Kai</b>        | # <a href="#">CUI Kai</a> , # <a href="#">LIANG Kaikang</a> , <a href="#">CHANG Jun</a> , <a href="#">LAU Denvi</a> , "Investigation of the macro performance, mechanism, and durability of multiscale steel fiber reinforced low-carbon ecological UHPC", <i>Construction and Building Materials</i> , 327, 28 February 2022, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2022.126921">https://doi.org/10.1016/j.conbuildmat.2022.126921</a> .  |
|                       | <a href="#">CHANG Jun</a> , <a href="#">JIANG Ting</a> , # <a href="#">CUI Kai</a> , "Influence on compressive strength and CO <sub>2</sub> capture after accelerated carbonation of combination $\beta$ -C <sub>2</sub> S with $\gamma$ -C <sub>2</sub> S", <i>Construction and Building Materials</i> , 312, 01 November 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.125359">https://doi.org/10.1016/j.conbuildmat.2021.125359</a> .  |
|                       | # <a href="#">CUI Kai</a> , <a href="#">LAU Denvi</a> , <a href="#">ZHANG Yangyang</a> , <a href="#">CHANG Jun</a> , "Mechanical properties and mechanism of nano-CaCO <sub>3</sub> enhanced sulphoaluminate cement-based reactive powder concrete", <i>Construction and Building Materials</i> , 309, 11 October 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.125099">https://doi.org/10.1016/j.conbuildmat.2021.125099</a> .   |
|                       | # <a href="#">CUI Kai</a> , <a href="#">CHANG Jun</a> , <a href="#">FEO Luciano</a> , <a href="#">CHOW Cheuk Lun</a> , <a href="#">LAU Denvi</a> , "Developments and Applications of Carbon Nanotube Reinforced Cement-Based Composites as Functional Building Materials", <i>Frontiers in Materials</i> , 9, 08 March 2022, doi: <a href="https://doi.org/10.3389/fmats.2022.861646">https://doi.org/10.3389/fmats.2022.861646</a> .  |
| <b>DAI Ke</b>         | # <a href="#">DAI Ke</a> , # <a href="#">LI Sining</a> , <a href="#">KIM Jung In</a> , <a href="#">JAE SUH Min</a> , "Identifying Characteristics of PPP Projects for Healthcare Facilities for the Elderly Based on Payment Mechanisms in China", <i>Journal of Management in Engineering - ASCE</i> , 37(6), 02 September 2021, doi: <a href="https://doi.org/10.1061/(ASCE)ME.1943-5479.0000966">https://doi.org/10.1061/(ASCE)ME.1943-5479.0000966</a> .                                       |
| <b>DING Yuexiong</b>  | <a href="#">JIANG Feifeng</a> , <a href="#">MA Jun</a> , <a href="#">LI Zheng</a> , # <a href="#">DING Yuexiong</a> , "Prediction of energy use intensity of urban buildings using the semi-supervised deep learning model", <i>Energy</i> , 249, 15 March 2022, doi: <a href="https://doi.org/10.1016/j.energy.2022.123631">https://doi.org/10.1016/j.energy.2022.123631</a> .  |
|                       | # <a href="#">DING Yuexiong</a> , <a href="#">MA Jie</a> , <a href="#">LUO Xiaowei</a> , "Applications of natural language processing in construction", <i>Automation in Construction</i> , 136, 24 February 2022, doi: <a href="https://doi.org/10.1016/j.autcon.2022.104169">https://doi.org/10.1016/j.autcon.2022.104169</a> .  |
| <b>FANG Hongqiang</b> | # <a href="#">FANG Hongqiang</a> , <a href="#">LO Siu Ming</a> , <a href="#">LO Jacqueline T. Y.</a> , "Building fire evacuation: An IoT-aided perspective in the 5G era", <i>Buildings</i> , 11(12), 13 December 2021, doi: <a href="https://doi.org/10.3390/buildings11120643">https://doi.org/10.3390/buildings11120643</a> .   |
|                       | # <a href="#">FANG Hongqiang</a> , <a href="#">LO Siu Ming</a> , # <a href="#">ZHANG Yunjie</a> , # <a href="#">SHEN Yixin</a> , "Development of a machine-learning approach for identifying the stages of fire development in residential room fires", <i>Fire Safety Journal</i> , 126, 07 October 2021, doi: <a href="https://doi.org/10.1016/j.firesaf.2021.103469">https://doi.org/10.1016/j.firesaf.2021.103469</a> .  |
|                       | # <a href="#">QIN Chao</a> , # <a href="#">FANG Hongqiang</a> , # <a href="#">WU Shihai</a> , <a href="#">LU Weizhen Jane</a> , "Establishing multi-criteria optimization of return vent height for underfloor air distribution system", <i>Journal of Building Engineering</i> , 57, 17 June 2022, doi: <a href="https://doi.org/10.1016/j.jobe.2022.104800">https://doi.org/10.1016/j.jobe.2022.104800</a> .   |
|                       | # <a href="#">QIN Chao</a> , <a href="#">ZHOU Wei-Ru</a> , # <a href="#">FANG Hongqiang</a> , <a href="#">LU Weizhen Jane</a> , <a href="#">LEE Wai Ming</a> , "Optimization of return vent height for stratified air distribution system with impinging jet supply satisfying threshold of  PMV  < 0.5", <i>Journal of Cleaner Production</i> , 359, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.jclepro.2022.132033">https://doi.org/10.1016/j.jclepro.2022.132033</a> .                |
| <b>FANG Xu</b>        | <a href="#">LIU Shixiang</a> , <a href="#">ZHANG Xiaolei</a> , # <a href="#">FANG Xu</a> , <a href="#">HU Longhua</a> , "Experimental study on tilting behavior and blow out of dual tandem jet flames under cross wind", <i>Process Safety and Environmental Protection</i> , 158, 25 November 2021, pp 1-9, doi: <a href="https://doi.org/10.1016/j.psep.2021.11.043">https://doi.org/10.1016/j.psep.2021.11.043</a> .   |
|                       | # <a href="#">FANG Xu</a> , <a href="#">SUN Xiepeng</a> , <a href="#">ZHANG Xiaolei</a> , <a href="#">YUEN Kwok Kit Richard</a> , <a href="#">HU Longhua</a> , "Experimental study of impinging flame structures and thermal characteristics in ceiling flow generated by fuel jet diffusion combustion with air entrainment constraint in a corner", <i>Fuel</i> , 323, 29 April 2022, doi: <a href="https://doi.org/10.1016/j.fuel.2022.124361">https://doi.org/10.1016/j.fuel.2022.124361</a> . |
|                       | <a href="#">ZHANG Xiaolei</a> , # <a href="#">FANG Xu</a> , <a href="#">HU Longhua</a> , "Buoyant turbulent diffusion flame heights of free-, wall- and corner air entrainment conditions: Experiments and global model based on mirror approach", <i>Fuel</i> , 303, 04 July 2021, doi: <a href="https://doi.org/10.1016/j.fuel.2021.121338">https://doi.org/10.1016/j.fuel.2021.121338</a> .   |
|                       | # <a href="#">FANG Xu</a> , <a href="#">ZHANG Xiaolei</a> , <a href="#">YUEN Kwok Kit Richard</a> , <a href="#">HU Longhua</a> , "Diffusion flame side sag behavior in cross winds: Experimental investigation and scaling analysis", <i>Fuel</i> , 310, 30 October 2021, doi: <a href="https://doi.org/10.1016/j.fuel.2021.122252">https://doi.org/10.1016/j.fuel.2021.122252</a> .   |

Section A: Publications of PhD Students

|                        |  |
|------------------------|--|
| <b>FIACCO Federica</b> | #FIACCO Federica, TALAMINI Gianni, "Energy-driven urban regeneration: investigating strategies for net-zero energy neighbourhoods in compact textures", <i>Urbanie and Urbanus</i> , (6), December 2021, pp 36-47, doi: <a href="https://doi.org/10.55412/06.03">https://doi.org/10.55412/06.03</a> .  |
| <b>GAO Dongli</b>      | #XIE Wei, #GAO Dongli, LEE Wai Ming, "Detecting Undeclared-Leader-Follower Structure in Pedestrian Evacuation Using Transfer Entropy", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 06 April 2022, doi: <a href="https://doi.org/10.1109/TITS.2022.3161813">https://doi.org/10.1109/TITS.2022.3161813</a> .  |
|                        | #GAO Dongli, LEE Wai Ming, LEE Yiu Yin Raymond, "Integration of cumulative prospect theory in cellular automata model for building evacuation", <i>International Journal of Disaster Risk Reduction</i> , 74, 19 March 2022, doi: <a href="https://doi.org/10.1016/j.ijdr.2022.102904">https://doi.org/10.1016/j.ijdr.2022.102904</a> .  |
|                        | #GAO Dongli, CHEN Xingchao, YANG Xinyu, TONG Yun On, LIN Peng, "Experimental Study of Sub-critical Velocity in Longitudinally Ventilated Tunnels", <i>Fire Technology</i> , 58(1), 04 August 2021, pp 571-590, doi: <a href="https://doi.org/10.1007/s10694-021-01160-8">https://doi.org/10.1007/s10694-021-01160-8</a> .  |
|                        | CHEN Xingchao, JIANG Zhilin, QIU HongPeng, #GAO Dongli, LIN Peng, "Study on the impact of ventilation on heat release rates of propane fires in tunnels", <i>Tunnelling and Underground Space Technology</i> , 118, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.tust.2021.104191">https://doi.org/10.1016/j.tust.2021.104191</a> .  |
| <b>GAO Lili</b>        | #GAO Lili, DENG Xiaopeng, YANG Weimin, FANG Jie, "COVID-19 related stressors and mental health outcomes of expatriates in international construction", <i>Frontiers in Public Health</i> , 10, 2022, doi: <a href="https://doi.org/10.3389/fpubh.2022.961726">https://doi.org/10.3389/fpubh.2022.961726</a> .  |
| <b>GAO Yizhuo</b>      | 譚剛毅, 邓原, #GAO Yizhuo, "三线建设的设计实践与教育培养 - 以三线建设厂矿基层处建筑师口述访谈为线索", <i>新建筑</i> , (2), 2022, pp 36-40, doi: <a href="https://doi.org/10.12069/j.na.202202036">https://doi.org/10.12069/j.na.202202036</a> .  |
| <b>GAUTAM Dipendra</b> | #GAUTAM Dipendra, RUPAKHETY Rajesh, "Empirical seismic vulnerability analysis of infrastructure systems in Nepal", <i>Bulletin of Earthquake Engineering</i> , 19(14), 06 September 2021, pp 6113–6127, doi: <a href="https://doi.org/10.1007/s10518-021-01219-5">https://doi.org/10.1007/s10518-021-01219-5</a> .   |
| <b>GUAN Zheng</b>      | #GUAN Zheng, WANG Yu, ZHAO Tengyuan, "Adaptive sampling strategy for characterizing spatial distribution of soil liquefaction potential using cone penetration test", <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 14(4), 18 March 2022, pp 1221-1231, doi: <a href="https://doi.org/10.1016/j.jrmge.2022.01.011">https://doi.org/10.1016/j.jrmge.2022.01.011</a> .                                     |
|                        | #GUAN Zheng, WANG Yu, "CPT-based probabilistic liquefaction assessment considering soil spatial variability, interpolation uncertainty and model uncertainty", <i>Computers and Geotechnics</i> , 141, 22 October 2021, doi: <a href="https://doi.org/10.1016/j.compgeo.2021.104504">https://doi.org/10.1016/j.compgeo.2021.104504</a> .   |
|                        | #GUAN Zheng, WANG Yu, "SPT-based probabilistic evaluation of soil liquefaction potential considering design life of civil infrastructures", <i>Computers and Geotechnics</i> , 148, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.compgeo.2022.104807">https://doi.org/10.1016/j.compgeo.2022.104807</a> .  |
|                        | #GUAN Zheng, WANG Yu, "Assessment of Liquefaction-Induced Differential Ground Settlement and Lateral Displacement Using Standard Penetration Tests with Consideration of Soil Spatial Variability", <i>Journal of Geotechnical and Geoenvironmental Engineering</i> , 148(5), 24 February 2022, doi: <a href="https://doi.org/10.1061/(ASCE)GT.1943-5606.0002775">https://doi.org/10.1061/(ASCE)GT.1943-5606.0002775</a> . |
| <b>HAN Xuliang</b>     | LI Qiusheng, #HAN Xuliang, ZHOU Kang, "Effect of time-variant structural modal parameters on accurate estimation of wind-induced dynamic responses of high-rise buildings during typhoons", <i>Journal of Building Engineering</i> , 56, 08 June 2022, doi: <a href="https://doi.org/10.1016/j.job.2022.104783">https://doi.org/10.1016/j.job.2022.104783</a> .  |
|                        | SUN Meng-Meng, LI Qiusheng, ZHOU Kang, #HAN Xuliang, "Modal Identification Technologies for High-Rise Buildings Under Non-Stationary Excitations", <i>International Journal of Structural Stability and Dynamics</i> , 22(9), 16 March 2022, doi: <a href="https://doi.org/10.1142/S0219455422501048">https://doi.org/10.1142/S0219455422501048</a> .  |
|                        | ZHOU Kang, LI Qiusheng, #HAN Xuliang, "Modal Identification of Civil Structures via Stochastic Subspace Algorithm with Monte Carlo-Based Stabilization Diagram", <i>Journal of Structural Engineering (United States)</i> , 148(6), 08 April 2022, doi: <a href="https://doi.org/10.1061/(ASCE)ST.1943-541X.0003353">https://doi.org/10.1061/(ASCE)ST.1943-541X.0003353</a> .  |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
| <b>HE Junjiang</b>   | #HE Junjiang, ZHANG J., NING X. Y., WANG J., <u>YUEN Kwok Kit Richard</u> , "Influence of Stairwell Ventilation State on Fire Behavior and Smoke Temperature Distribution in a Full-scale High-rise Building", <i>IOP Conference Series: Earth and Environmental Science</i> , 813, 30 July 2021, doi: <a href="https://doi.org/10.1088/1755-1315/813/1/012008">https://doi.org/10.1088/1755-1315/813/1/012008</a> . |
|                      | #HE Junjiang, HUANG Xinyan, NING Xiaoyao, ZHOU Tiannian, WANG Jian, <u>YUEN Kwok Kit Richard</u> , "Modelling fire smoke dynamics in a stairwell of high-rise building: Effect of ambient pressure", <i>Case Studies in Thermal Engineering</i> , 32, 04 March 2022, doi: <a href="https://doi.org/10.1016/j.csite.2022.101907">https://doi.org/10.1016/j.csite.2022.101907</a> .                                    |
| <b>HE Junyi</b>      | #HE Junyi, #CHAN Pak Wai, <u>LI Qiusheng</u> , LI L., ZHANG L., YANG H. L., "Observation of vertical eddy diffusivity and mixing length during landfalling Super Typhoons", <i>Journal of Wind Engineering &amp; Industrial Aerodynamics</i> , 219, 23 October 2021, doi: <a href="https://doi.org/10.1016/j.jweia.2021.104816">https://doi.org/10.1016/j.jweia.2021.104816</a> .                                    |
|                      | #HE Junyi, #CHAN Pak Wai, <u>LI Qiusheng</u> , LI L., ZHANG L., YANG H. L., "Observations of wind and turbulence structures of Super Typhoons Hato and Mangkhut over land from a 356 m high meteorological tower", <i>Atmospheric Research</i> , 265, 03 November 2021, doi: <a href="https://doi.org/10.1016/j.atmosres.2021.105910">https://doi.org/10.1016/j.atmosres.2021.105910</a> .                           |
|                      | #HE Junyi, HON Kai Kwong, <u>LI Qiusheng</u> , CHAN Pak Wai, "Wind profile analysis for selected tropical cyclones over the South China Sea based on dropsonde measurements", <i>Atmosfera</i> , 35(1), 18 December 2021, pp 111-126, doi: <a href="https://doi.org/10.20937/ATM.52900">https://doi.org/10.20937/ATM.52900</a> .   |
|                      | CHAN P. W., CHOY C. W., #HE Junyi, <u>LI Qiusheng</u> , "An observational study of Super Typhoon <i>Rai</i> , a very late-season typhoon necessitating the issuance of a tropical cyclone warning signal for Hong Kong in December 2021", <i>Weather</i> , 16 April 2022, doi: <a href="https://doi.org/10.1002/wea.4202">https://doi.org/10.1002/wea.4202</a> .   |
|                      | #HE Junyi, CHAN P. W., <u>LI Qiusheng</u> , LEE C.w., "Characterizing coastal wind energy resources based on sodar and microwave radiometer observations", <i>Renewable and Sustainable Energy Reviews</i> , 163, 29 April 2022, doi: <a href="https://doi.org/10.1016/j.rser.2022.112498">https://doi.org/10.1016/j.rser.2022.112498</a> .  |
|                      | #HE Junyi, HON Kai Kwong, CHAN Pak Wai, <u>LI Qiusheng</u> , "Dropsonde observations and numerical simulations for intensifying/weakening tropical cyclones over the northern part of the South China Sea", <i>Weather</i> , 09 December 2021, doi: <a href="https://doi.org/10.1002/wea.4123">https://doi.org/10.1002/wea.4123</a> .  |
|                      | <u>LI Qiusheng</u> , #HE Junyi, <u>ZHOU Kang</u> , LI X., CHAN P. W., LI L., "City-Scale Typhoon Hazard Analysis and Field Monitoring of Wind Effects on Skyscrapers during Super Typhoon Mangkhut", <i>Journal of Structural Engineering (United States)</i> , 148(4), 18 January 2022, doi: <a href="https://doi.org/10.1061/(ASCE)ST.1943-541X.0003302">https://doi.org/10.1061/(ASCE)ST.1943-541X.0003302</a> .  |
|                      | #HE Junyi, <u>LI Qiusheng</u> , CHAN P. W., LI L., LU C., ZHANG L., YANG H. L., "Characteristics and Vertical Profiles of Mean Wind and Turbulence for Typhoon, Monsoon, and Thunderstorm Winds", <i>Journal of Structural Engineering (United States)</i> , 147(11), 01 September 2021, doi: <a href="https://doi.org/10.1061/(ASCE)ST.1943-541X.0003156">https://doi.org/10.1061/(ASCE)ST.1943-541X.0003156</a> .  |
| <b>HE Yuxiao</b>     | #HE Yuxiao, TALAMINI Gianni, JIANG Luzheng, "Does urban renewal impact social interaction in public open space? Evidence from Sham Shui Po, Hong Kong", <i>Urbanie and Urbanus</i> , (6), December 2021, pp 24-35, doi: <a href="https://doi.org/10.55412/06.02">https://doi.org/10.55412/06.02</a> .  |
| <b>HOU Jin</b>       | WANG Junqi, #HOU Jin, CHEN Jianping, FU Qiming, <u>HUANG Gongsheng</u> , "Data mining approach for improving the optimal control of HVAC systems: An event-driven strategy", <i>Journal of Building Engineering</i> , 39, July 2021, doi: <a href="https://doi.org/10.1016/j.jobe.2021.102246">https://doi.org/10.1016/j.jobe.2021.102246</a> .  |
|                      | #HOU Jin, <u>LI Xin</u> , <u>WAN Hang</u> , SUN Qin, DONG Kaijun, <u>HUANG Gongsheng</u> , "Real-time optimal control of HVAC systems: Model accuracy and optimization reward", <i>Journal of Building Engineering</i> , 50, 03 February 2022, doi: <a href="https://doi.org/10.1016/j.jobe.2022.104159">https://doi.org/10.1016/j.jobe.2022.104159</a> .  |
| <b>HUANG Chuanli</b> | # <u>HUANG Chuanli</u> , WANG Lu, YU Hang, LI Hongliu, ZHANG Jun, SONG Weiguo, <u>LO Siu Ming</u> , RAFAQAT Warda, "Investigating the influence of a cyclist on crowd behaviors on a shared road", <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021(8), 20 August 2021, doi: <a href="https://doi.org/10.1088/1742-5468/ac0edd">https://doi.org/10.1088/1742-5468/ac0edd</a> .                  |

Section A: Publications of PhD Students

|   |   |
|---|---|
|   | #HUANG Chuanli, HU Yanghui, ZHANG Sainan, YANG Longnan, XIA Long, ZHANG Jun, SONG Weiguo, LO Siu Ming, "A collision-free model on the interaction between pedestrians and cyclists on a shared road", <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021(10), October 2021, doi: <a href="https://doi.org/10.1088/1742-5468/ac26b4">https://doi.org/10.1088/1742-5468/ac26b4</a> .   |
| <b>HUANG Jiasheng</b>                               | PENG Yuxiang, TANG Shengwen, #HUANG Jiasheng, TANG Can, WANG Lei, LIU Yufei, "Fractal Analysis on Pore Structure and Modeling of Hydration of Magnesium Phosphate Cement Paste", <i>Fractal and Fractional</i> , 6(6), 01 June 2022, doi: <a href="https://doi.org/10.3390/fractalfract6060337">https://doi.org/10.3390/fractalfract6060337</a> .   |
|   | #HUANG Jiasheng, LI Wenwei, HUANG Desheng, WANG Lei, CHEN E., WU Chengyou, WANG Baoshan, DENG Hongyang, TANG Shengwen, SHI Yan, LI Yang, "Fractal analysis on pore structure and hydration of magnesium oxysulfate cements by first principle, thermodynamic and microstructure-based methods", <i>Fractal and Fractional</i> , 5(4), 11 October 2021, doi: <a href="https://doi.org/10.3390/fractalfract5040164">https://doi.org/10.3390/fractalfract5040164</a> . |
| <b>JIANG Nan</b>                                    | #ZHANG Ping, YANG Lizhong, LO Siu Ming, WANG Dong, LI Maoyu, JIANG Jiajia, #JIANG Nan, "Experimental study on evacuation behavior with guidance under high and low urgency conditions", <i>Safety Science</i> , 154, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.ssci.2022.105865">https://doi.org/10.1016/j.ssci.2022.105865</a> .   |
| <b>JIANG Yuxiao</b>                                 | #JIANG Yuxiao, WANG Shanchao, REN Lijian, YANG Linchuan, LU Yi, "Effects of built environment factors on obesity risk across three types of residential community in Beijing", <i>Journal of Transport and Health</i> , 25, 14 May 2022, doi: <a href="https://doi.org/10.1016/j.jth.2022.101382">https://doi.org/10.1016/j.jth.2022.101382</a> .   |
|   | #JIANG Yuxiao, #CHEN Long, GREKOUSIS George, XIAO Yang, YE Yu, LU Yi, "Spatial disparity of individual and collective walking behaviors: A new theoretical framework", <i>Transportation Research Part D: Transport and Environment</i> , 101, 17 November 2021, doi: <a href="https://doi.org/10.1016/j.trd.2021.103096">https://doi.org/10.1016/j.trd.2021.103096</a> .   |
| <b>JIN Xin</b>                                      | #ZHANG Huihui, NUNAYON Sunday Segbenu, #JIN Xin, LAI Chi Keung Alvin, "Pressure drop and nanoparticle deposition characteristics for multiple twisted tape inserts with partitions in turbulent duct flows", <i>International Journal of Heat and Mass Transfer</i> , 193, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.121474">https://doi.org/10.1016/j.ijheatmasstransfer.2021.121474</a> .                                    |
|   | #JIN Xin, #ZHANG Huihui, HUANG Gongsheng, LAI Chi Keung Alvin, "Experimental investigation on the dynamic thermal performance of the parallel solar-assisted air-source heat pump latent heat thermal energy storage system", <i>Renewable Energy</i> , 180, 26 August 2021, pp 637-657, doi: <a href="https://doi.org/10.1016/j.renene.2021.08.067">https://doi.org/10.1016/j.renene.2021.08.067</a> .   |
|   | #ZHENG Siqian, #JIN Xin, HUANG Gongsheng, LAI Chi Keung Alvin, "Coordination of commercial prosumers with distributed demand-side flexibility in energy sharing and management system", <i>Energy</i> , 248, 04 March 2022, doi: <a href="https://doi.org/10.1016/j.energy.2022.123634">https://doi.org/10.1016/j.energy.2022.123634</a> .  |
|   | FAROOQ Furqan, #JIN Xin, FAISAL JAVED Muhammad, #AKBAR Arslan, IZHAR SHAH Muhammad, ASLAM Fahid, ALYOUSEF Rayed, "Geopolymer concrete as sustainable material: A state of the art review", <i>Construction and Building Materials</i> , 306, 13 September 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.124762">https://doi.org/10.1016/j.conbuildmat.2021.124762</a> .  |
| <b>KARUNARATNE Tharindu Lakruwan Wickremanayake</b> | #RATHNAYAKE Rathnayake M. N. Uthpala, #KARUNARATNE Tharindu Lakruwan Wickremanayake, HAN Shousou, LAU Denuid, CHOW Cheuk Lun, "Experimental investigation on thermal performance of water wall systems exposed to fire", <i>Indoor and Built Environment</i> , 23 February 2022, doi: <a href="https://doi.org/10.1177/1420326X211057446">https://doi.org/10.1177/1420326X211057446</a> .   |
| <b>KE Jinjing</b>                                   | #KE Jinjing, DU Jing, LUO Xiaowei, "The effect of noise content and level on cognitive performance measured by electroencephalography (EEG)", <i>Automation in Construction</i> , 130, 28 July 2021, doi: <a href="https://doi.org/10.1016/j.autcon.2021.103836">https://doi.org/10.1016/j.autcon.2021.103836</a> .   |
| <b>LAN Bo</b>                                       | #LAN Bo, YU Zhun (Jerry), HUANG Gongsheng, "Study on the impacts of occupant distribution on the thermal environment of tall and large public spaces", <i>Building and Environment</i> , 218, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.buildenv.2022.109134">https://doi.org/10.1016/j.buildenv.2022.109134</a> .   |
| <b>LAN Meng</b>                                     | #LAN Meng, GARDONI Paolo, QIN Rongshui, #ZHANG Xiao, ZHU Jiping, LO Siu Ming, "Modeling NaTech-related domino effects in process clusters: A network-based approach", <i>Reliability Engineering and System Safety</i> , 221, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.res.2022.108329">https://doi.org/10.1016/j.res.2022.108329</a> .   |

Section A: Publications of PhD Students

|                   |  |
|-------------------|--|
|                   | # <a href="#">LAN Meng</a> , GARDONI Paolo, LUO Ruiyu, ZHU Jiping, <a href="#">LO Siu Ming</a> , "Risk-driven statistical modeling for hurricane-induced compound events: Design event implementation for industrial areas subjected to coastal floods and winds", <i>Ocean Engineering</i> , 251, 30 March 2022, doi: <a href="https://doi.org/10.1016/j.oceaneng.2022.111159">https://doi.org/10.1016/j.oceaneng.2022.111159</a> .   |
| <b>LI Hongliu</b> | REN Xiangxia, HU Yanghui, # <a href="#">LI Hongliu</a> , ZHANG Jun, SONG Weiguo, XU Han, "Simulation of building evacuation with different ratios of the elderly considering the influence of obstacle position", <i>Physica A: Statistical Mechanics and its Applications</i> , 604, 28 June 2022, doi: <a href="https://doi.org/10.1016/j.physa.2022.127833">https://doi.org/10.1016/j.physa.2022.127833</a>   |
|                   | JIANG Kechun, ZHANG Jun, CAO Shuchao, XIA Long, REN Xiangxia, # <a href="#">LI Hongliu</a> , LI Xudong, XU Han, SONG Weiguo, "Experimental study on the movement characteristics of individuals through angled corridors with different speeds and directions", <i>Transportmetrica A: Transport Science</i> , 06 June 2022, doi: <a href="https://doi.org/10.1080/23249935.2022.2075952">https://doi.org/10.1080/23249935.2022.2075952</a> .  |
| <b>LI Peiping</b> | # <a href="#">LI Peiping</a> , <a href="#">WANG Yu</a> , "Development of an Efficient Response Surface Method for Highly Nonlinear Systems from Sparse Sampling Data Using Bayesian Compressive Sensing", <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 7(4), 31 July 2021, doi: <a href="https://doi.org/10.1061/AJRU6.0001155">https://doi.org/10.1061/AJRU6.0001155</a> .  |
|                   | # <a href="#">LI Peiping</a> , <a href="#">WANG Yu</a> , "An active learning reliability analysis method using adaptive Bayesian compressive sensing and Monte Carlo simulation (ABCS-MCS)", <i>Reliability Engineering and System Safety</i> , 221, 06 February 2022, doi: <a href="https://doi.org/10.1016/j.res.2022.108377">https://doi.org/10.1016/j.res.2022.108377</a> .  |
| <b>LI Ran</b>     | # <a href="#">LI Ran</a> , WANG Zanshe, CHEN Meijuan, LI Zhang, <a href="#">LUO Xiaowei</a> , <a href="#">LU Weizhen Jane</a> , GU Zhaolin, "Fabrication and Characterization of Superhydrophobic Al-Based Surface Used for Finned-Tube Heat Exchangers", <i>Materials</i> , 15(9), 22 April 2022, doi: <a href="https://doi.org/10.3390/ma15093060">https://doi.org/10.3390/ma15093060</a> .  |
| <b>LI Shuyang</b> | TSANG Kin Wai, <a href="#">LI Hin Wa</a> , # <a href="#">LI Shuyang</a> , "Predicting Daylight Illuminance for 15 CIE Standard Skies Using a Simple Software Tool", <i>Frontiers in Sustainable Cities</i> , 4, 03 March 2022, doi: <a href="https://doi.org/10.3389/frsc.2022.792997">https://doi.org/10.3389/frsc.2022.792997</a> .  |
|                   | <a href="#">LI Hin Wa</a> , # <a href="#">LI Shuyang</a> , TSANG Kin Wai, <a href="#">CHEN Wenqiang</a> , "Estimation of sky and externally reflected components under various obstructed CIE skies", <i>Journal of Building Engineering</i> , 51, 02 March 2022, doi: <a href="https://doi.org/10.1016/j.job.2022.104288">https://doi.org/10.1016/j.job.2022.104288</a> .   |
|                   | <a href="#">LI Hin Wa</a> , # <a href="#">LI Shuyang</a> , <a href="#">CHEN Wenqiang</a> , LOU Siwei, "Simple correlations between point daylight factor, average daylight factor and vertical daylight factor under all sky conditions and building design implications", <i>Indoor and Built Environment</i> , 09 March 2022, doi: <a href="https://doi.org/10.1177/1420326X211061111">https://doi.org/10.1177/1420326X211061111</a> .   |
| <b>LI Sining</b>  | # <a href="#">DAI Ke</a> , # <a href="#">LI Sining</a> , <a href="#">KIM Jung In</a> , JAE SUH Min, "Identifying Characteristics of PPP Projects for Healthcare Facilities for the Elderly Based on Payment Mechanisms in China", <i>Journal of Management in Engineering - ASCE</i> , 37(6), 02 September 2021, doi: <a href="https://doi.org/10.1061/(ASCE)ME.1943-5479.0000966">https://doi.org/10.1061/(ASCE)ME.1943-5479.0000966</a> .  |
| <b>LI Siyue</b>   | # <a href="#">LI Siyue</a> , # <a href="#">REN Jing</a> , <a href="#">SARVADEVABHATLA Sathwik Kasyap</a> , <a href="#">SENETAKIS Kostas</a> , "Mechanical, micro-structure and contour mapping analyses of highly-porous intermediate-texture analog rock from instrumented micro-indentation in conjunction with statistical/machine learning tools", <i>Geomechanics and Geophysics for Geo-energy and Geo-Resources</i> , 8(3), 30 April 2022, doi: <a href="https://doi.org/10.1007/s40948-022-00404-3">https://doi.org/10.1007/s40948-022-00404-3</a> . |
|                   | HE huan, # <a href="#">LI Siyue</a> , <a href="#">SENETAKIS Kostas</a> , COOP Matthew Richard, LIU Songyu, "Influence of anisotropic stress path and stress history on stiffness of calcareous sands from Western Australia and the Philippines", <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 14(1), February 2022, pp 197-209, doi: <a href="https://doi.org/10.1016/j.jrmge.2021.03.015">https://doi.org/10.1016/j.jrmge.2021.03.015</a> .   |
|                   | CHITTA Sai Sandeep, # <a href="#">LI Siyue</a> , <a href="#">SENETAKIS Kostas</a> , "Experimental and analytical investigation on the normal contact behavior of natural proppant simulants", <i>Geomechanics and Geophysics for Geo-energy and Geo-Resources</i> , 7(4), 02 November 2021, doi: <a href="https://doi.org/10.1007/s40948-021-00296-9">https://doi.org/10.1007/s40948-021-00296-9</a> .   |
| <b>LI Ya</b>      | # <a href="#">LI Ya</a> , XU Wu, JIANG Yong, <a href="#">LIEW Kim Meow</a> , "Effects of diluents on laminar burning velocity and cellular instability of 2-methyltetrahydrofuran-air flames", <i>Fuel</i> , 308, 27 September 2021, doi: <a href="https://doi.org/10.1016/j.fuel.2021.121974">https://doi.org/10.1016/j.fuel.2021.121974</a> .  |



Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | # <u>LI Ya</u> , JIANG Yong, XU Wu, <u>LIEW Kim Meow</u> , "Laminar burning velocity and cellular instability of 2-butanone-air flames at elevated pressures", <i>Fuel</i> , 316, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.fuel.2022.123390">https://doi.org/10.1016/j.fuel.2022.123390</a> .   |
| <b>LIANG Kaikang</b> | # <u>CUI Kai</u> , # <u>LIANG Kaikang</u> , CHANG Jun, LAU Denvi, "Investigation of the macro performance, mechanism, and durability of multiscale steel fiber reinforced low-carbon ecological UHPC", <i>Construction and Building Materials</i> , 327, 28 February 2022, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2022.126921">https://doi.org/10.1016/j.conbuildmat.2022.126921</a> .   |
|                      | HAO Yifei, YANG Guangzhao, # <u>LIANG Kaikang</u> , "Development of fly ash and slag based high-strength alkali-activated foam concrete", <i>Cement and Concrete Composites</i> , 128, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.cemconcomp.2022.104447">https://doi.org/10.1016/j.cemconcomp.2022.104447</a> .   |
| <b>LIANG Yuying</b>  | # <u>LIANG Yuying</u> , # <u>ZHANG Nan</u> , WU Huijun, XU Xinhua, DU Ke, YANG Jianming, SUN Qin, DONG Kaijun, <u>HUANG Gongsheng</u> , "Thermal environment and thermal comfort built by decoupled radiant cooling units with low radiant cooling temperature", <i>Building and Environment</i> , 206, 10 September 2021, doi: <a href="https://doi.org/10.1016/j.buildenv.2021.108342">https://doi.org/10.1016/j.buildenv.2021.108342</a> . |
|                      | YANG Jianming, WU Huijun, XU Xinhua, <u>HUANG Gongsheng</u> , CEN Jian, # <u>LIANG Yuying</u> , "Regional climate effects on the optimal thermal resistance and capacitance of residential building walls", <i>Energy and Buildings</i> , 244, 01 August 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111030">https://doi.org/10.1016/j.enbuild.2021.111030</a> .   |
|                      | WU Huijun, # <u>LIANG Yuying</u> , YANG Jianming, CEN Jian, ZHANG Xianyong, XIAO Lei, CAO Ruibing, <u>HUANG Gongsheng</u> , "Engineering a superinsulating wall with a beneficial thermal nonuniformity factor to improve building energy efficiency", <i>Energy and Buildings</i> , 256, 19 November 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111680">https://doi.org/10.1016/j.enbuild.2021.111680</a> .                  |
|                      | # <u>ZHANG Nan</u> , # <u>LIANG Yuying</u> , WU Huijun, XU Xinhua, DU Ke, SHAO Zhenhua, ZHOU Xiuxia, <u>HUANG Gongsheng</u> , "Heat transfer modeling and analysis of air-layer integrated radiant cooling unit", <i>Applied Thermal Engineering</i> , 194, 25 July 2021, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2021.117086">https://doi.org/10.1016/j.applthermaleng.2021.117086</a> .                                      |
| <b>LIN Sen</b>       | # <u>LIN Sen</u> , <u>CHEUNG Sai On</u> , "THE INTENTION TO SETTLE DRIVERS OF CONSTRUCTION DISPUTE NEGOTIATION", <i>Proceedings of International Structural Engineering and Construction</i> , 9(1), 2022, pp AAE-01-1-AAE-01-6.  |
| <b>LIU Jialin</b>    | # <u>LIU Jialin</u> , JIAN Wei, LAU Denvi, "Boron nitride nanosheet as a promising reinforcement for cementitious composites", <i>Applied Surface Science</i> , 572, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151395">https://doi.org/10.1016/j.apsusc.2021.151395</a> .  |
|                      | # <u>LIU Jialin</u> , HU Ning, <u>CHOW Cheuk Lun</u> , LAU Denvi, "Unfolding behavior of self-folded boron nitride nanosheets inducing ductility of cementitious composites", <i>Applied Surface Science</i> , 599, 30 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153818">https://doi.org/10.1016/j.apsusc.2022.153818</a> .   |
|                      | # <u>LIU Jialin</u> , HUI David, LAU Denvi, "Two-dimensional nanomaterial-based polymer composites: Fundamentals and applications", <i>Nanotechnology Reviews</i> , 11(1), January 2022, pp 770-792, doi: <a href="https://doi.org/10.1515/ntrev-2022-0041">https://doi.org/10.1515/ntrev-2022-0041</a> .   |
| <b>LIU Jian</b>      | # <u>TIAN Xue</u> , CHENG Yong, # <u>LIU Jian</u> , <u>LIN John Z</u> , "Evaluation of sidewall air supply with the stratified indoor environment in a consultation room", <i>Sustainable Cities and Society</i> , 75, 02 September 2021, doi: <a href="https://doi.org/10.1016/j.scs.2021.103328">https://doi.org/10.1016/j.scs.2021.103328</a> .  |
| <b>LIU Weihe</b>     | # <u>LIU Weihe</u> , ZHANG Lyuwen, <u>LIEW Kim Meow</u> , "A cyclic plastic-damage multiphase model for evaluation of multiple cracking in strain hardening cementitious composites", <i>Journal of the Mechanics and Physics of Solids</i> , 158, 24 October 2021, doi: <a href="https://doi.org/10.1016/j.jmps.2021.104692">https://doi.org/10.1016/j.jmps.2021.104692</a> .  |
| <b>LIU Xinyu</b>     | # <u>LIU Xinyu</u> , CHEN Yixin, <u>XUE Qiuli Charlie</u> , "自然的社会想象: 1980年代深圳城市公园的实践与表现", <i>景观设计学</i> , 2022.   |
| <b>LU Bin</b>        | # <u>LU Bin</u> , <u>LI Qiusheng</u> , "Investigation of the effects of wind veering and low-level jet on wind loads of super high-rise buildings by large eddy simulations", <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 227, 09 June 2022, doi: <a href="https://doi.org/10.1016/j.jweia.2022.105056">https://doi.org/10.1016/j.jweia.2022.105056</a> .  |
|                      | # <u>LU Bin</u> , <u>LI Qiusheng</u> , "Influence of atmospheric stability on air ventilation and thermal stress in a compact urban site by large eddy simulation", <i>Building and Environment</i> , 216, 04 April 2022, doi: <a href="https://doi.org/10.1016/j.buildenv.2022.109049">https://doi.org/10.1016/j.buildenv.2022.109049</a> .  |

Section A: Publications of PhD Students

|                  |   |
|------------------|---|
|                  | # <u>LU Bin</u> , <u>LI Qiusheng</u> , "Large eddy simulation of the atmospheric boundary layer to investigate the Coriolis effect on wind and turbulence characteristics over different terrains", <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 220, 22 November 2021, doi: <a href="https://doi.org/10.1016/j.jweia.2021.104845">https://doi.org/10.1016/j.jweia.2021.104845</a> .  |
| <b>LU Yalin</b>  | # <u>LU Yalin</u> , # <u>ZHANG Yuchun</u> , <u>LIN John Z</u> , "Zonal model for predicting contaminant distribution in stratum ventilated rooms", <i>Indoor Air</i> , 32(6), 13 June 2022, doi: <a href="https://doi.org/10.1111/ina.13061">https://doi.org/10.1111/ina.13061</a> .  |
|                  | # <u>LU Yalin</u> , <u>LIN John Z</u> , "Coughed droplet dispersion pattern in hospital ward under stratum ventilation", <i>Building and Environment</i> , 208, 27 November 2021, doi: <a href="https://doi.org/10.1016/j.buildenv.2021.108602">https://doi.org/10.1016/j.buildenv.2021.108602</a> .  |
|                  | <u>ZHANG Sheng</u> , # <u>LU Yalin</u> , <u>NIU Dun</u> , <u>LIN John Z</u> , "Energy performance index of air distribution: Thermal utilization effectiveness", <i>Applied Energy</i> , 307, 18 November 2021, doi: <a href="https://doi.org/10.1016/j.apenergy.2021.118122">https://doi.org/10.1016/j.apenergy.2021.118122</a> .  |
|                  | <u>SU Wei</u> , <u>YANG Bin</u> , <u>MELIKOV Arsen</u> , <u>LIANG Chenjiyu</u> , # <u>LU Yalin</u> , <u>WANG Faming</u> , <u>LI Angui</u> , <u>LIN John Z</u> , <u>LI Xianting</u> , <u>CAO Guangyu</u> , <u>KOSONEN Risto</u> , "Infection probability under different air distribution patterns", <i>Building and Environment</i> , 207(Part B), 13 November 2021, doi: <a href="https://doi.org/10.1016/j.buildenv.2021.108555">https://doi.org/10.1016/j.buildenv.2021.108555</a> . |
|                  | <u>ZHANG Sheng</u> , <u>NIU Dun</u> , # <u>LU Yalin</u> , <u>LIN Zhang</u> , "Contaminant removal and contaminant dispersion of air distribution for overall and local airborne infection risk controls", <i>Science of the Total Environment</i> , 833, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.scitotenv.2022.155173">https://doi.org/10.1016/j.scitotenv.2022.155173</a> .  |
| <b>LUO Lina</b>  | # <u>LUO Lina</u> , <u>SARVADEVABHATLA Sathwik Kasyap</u> , <u>HE Huan</u> , <u>SENETAKIS Kostas</u> , "Experimental and DEM studies on the normal coefficient of restitution of grain-block systems in the presence of thick and thin water layers under low-velocity impacts", <i>Computers and Geotechnics</i> , 146, 07 April 2022, doi: <a href="https://doi.org/10.1016/j.compgeo.2022.104711">https://doi.org/10.1016/j.compgeo.2022.104711</a> .                                |
|                  | # <u>LUO Lina</u> , # <u>REN Jing</u> , <u>SARVADEVABHATLA Sathwik Kasyap</u> , <u>SENETAKIS Kostas</u> , "A note on the influence of smectite coating on the coefficient of restitution of natural sand particles impacting granitic blocks", <i>Coatings</i> , 11(8), 20 August 2021, doi: <a href="https://doi.org/10.3390/coatings11080996">https://doi.org/10.3390/coatings11080996</a> .  |
|                  | # <u>LUO Lina</u> , <u>SARVADEVABHATLA Sathwik Kasyap</u> , <u>HE Huan</u> , <u>SENETAKIS Kostas</u> , "Laboratory and discrete-based numerical investigation on the collision problem of impactor-block systems with soft-porous and hard-crystalline analog rocks", <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 46(3), 16 December 2021, pp 594-616, doi: <a href="https://doi.org/10.1002/nag.3313">https://doi.org/10.1002/nag.3313</a> .   |
|                  | # <u>LUO Lina</u> , <u>SENETAKIS Kostas</u> , "Influence of analog barrier type and impact velocity on the energy dissipation of simulant saprolitic rock particles colliding rigid and deformable barrier systems", <i>Transportation Geotechnics</i> , 35, 16 May 2022, doi: <a href="https://doi.org/10.1016/j.trgeo.2022.100784">https://doi.org/10.1016/j.trgeo.2022.100784</a> .  |
| <b>MA Rui</b>    | # <u>MA Rui</u> , <u>WANG Tao</u> , <u>WANG Yan</u> , <u>CHEN Jiayu</u> , "Tuning urban microclimate: A morpho-patch approach for multi-scale building group energy simulation", <i>Sustainable Cities and Society</i> , 76, 29 October 2021, doi: <a href="https://doi.org/10.1016/j.scs.2021.103516">https://doi.org/10.1016/j.scs.2021.103516</a> .  |
| <b>MAO Yida</b>  | # <u>CHEN Zhenyu</u> , # <u>WANG Guifeng</u> , # <u>MAO Yida</u> , <u>LIM C W</u> , "New Metamaterial Mathematical Modeling of Acoustic Topological Insulators via Tunable Underwater Local Resonance", <i>Applied Mathematical Modelling</i> , 108, 29 March 2022, pp 258-274, doi: <a href="https://doi.org/10.1016/j.apm.2022.03.023">https://doi.org/10.1016/j.apm.2022.03.023</a> .  |
| <b>MI Renjie</b> | # <u>MI Renjie</u> , <u>PAN Ganghua</u> , "Slowing down CO <sub>2</sub> effective diffusion speeds in recycled aggregate concrete by using carbon capture technology and high-quality recycled aggregate", <i>Journal of Building Engineering</i> , 45, 11 November 2021, doi: <a href="https://doi.org/10.1016/j.jobe.2021.103628">https://doi.org/10.1016/j.jobe.2021.103628</a> .  |
|                  | # <u>MI Renjie</u> , <u>LIEW Kim Meow</u> , <u>PAN Ganghua</u> , "New insights into diffusion and reaction of CO <sub>2</sub> gas in recycled aggregate concrete", <i>Cement and Concrete Composites</i> , 129, 10 March 2022, doi: <a href="https://doi.org/10.1016/j.cemconcomp.2022.104486">https://doi.org/10.1016/j.cemconcomp.2022.104486</a> .   |
|                  | # <u>MI Renjie</u> , <u>PAN Ganghua</u> , "Inhomogeneities of carbonation depth distributions in recycled aggregate concretes: A visualisation and quantification study", <i>Construction and</i>   |

Section A: Publications of PhD Students

|   |   |
|---|---|
|   | <i>Building Materials</i> , 330, 30 March 2022, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2022.127300">https://doi.org/10.1016/j.conbuildmat.2022.127300</a> .  |
| <b>MUHAMMAD -</b>   | # <a href="#">MUHAMMAD -</a> , "Design and manufacturing of monolithic mechanical metastructures governing ultrawide low frequency three-dimensional bandgaps", <i>Additive Manufacturing</i> , 47, 25 August 2021, doi: <a href="https://doi.org/10.1016/j.addma.2021.102231">https://doi.org/10.1016/j.addma.2021.102231</a> .  |
|   | # <a href="#">MUHAMMAD -</a> , <a href="#">LIM C W</a> , <a href="#">ŻUR Krzysztof Kamil</a> , "Wide Rayleigh waves bandgap engineered metabarriers for ground born vibration attenuation", <i>Engineering Structures</i> , 246, 27 August 2021, doi: <a href="https://doi.org/10.1016/j.engstruct.2021.113019">https://doi.org/10.1016/j.engstruct.2021.113019</a> .   |
|   | # <a href="#">MUHAMMAD -</a> , <a href="#">LIM C W</a> , <a href="#">#YAW Zoe</a> , <a href="#">#CHEN Zhenyu</a> , "Periodic and aperiodic 3-D composite metastructures with ultrawide bandgap for vibration and noise control", <i>Composite Structures</i> , 287, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.compstruct.2022.115324">https://doi.org/10.1016/j.compstruct.2022.115324</a> .                                  |
|   | # <a href="#">MUHAMMAD -</a> , <a href="#">HUSSAIN Sayed Iftikhar</a> , <a href="#">LIM C W</a> , "Composite trampoline metamaterial with enlarged local resonance bandgap", <i>Applied Acoustics</i> , 184, 19 August 2021, doi: <a href="https://doi.org/10.1016/j.apacoust.2021.108353">https://doi.org/10.1016/j.apacoust.2021.108353</a> .   |
|   | # <a href="#">CHEN Zhenyu</a> , <a href="#">#MUHAMMAD -</a> , <a href="#">#WANG Xiangyu</a> , <a href="#">LIM C W</a> , "Low frequency topologically protected wave transport in sinusoidal lightweight acoustic metamaterials", <i>Journal of Applied Physics</i> , 130(4), 29 July 2021, doi: <a href="https://doi.org/10.1063/5.0050963">https://doi.org/10.1063/5.0050963</a> .   |
|   | # <a href="#">MUHAMMAD -</a> , <a href="#">LIM C W</a> , "Rayleigh Wave Propagation and Its Wave-mode Coupling with Surface Resonators", <i>ISME Journal of Mechanics and Design</i> , 4(2), 21 August 2021, pp 36-43.  |
|   | # <a href="#">NALLALA Sarath Chandra Reddy</a> , <a href="#">HE Huan</a> , <a href="#">SENETAKIS Kostas</a> , "DEM analysis of small and small-to-medium strain shear modulus of sands", <i>Computers and Geotechnics</i> , 141, 27 October 2021, doi: <a href="https://doi.org/10.1016/j.compgeo.2021.104518">https://doi.org/10.1016/j.compgeo.2021.104518</a> .  |
| # <a href="#">NALLALA Sarath Chandra Reddy</a> , <a href="#">SENETAKIS Kostas</a> , <a href="#">WANG Yu</a> , "Probabilistic-based analysis and model selection of the tangential stiffness reduction: displacement curves of nonconforming contacts", <i>Granular Matter</i> , 24(2), 11 February 2022, doi: <a href="https://doi.org/10.1007/s10035-021-01204-4">https://doi.org/10.1007/s10035-021-01204-4</a> . |   |
| <b>NIE Fenghua</b>  | # <a href="#">NIE Fenghua</a> , <a href="#">CHOW Cheuk Lun</a> , <a href="#">LAU Denvid</a> , "A Review on Multiscale Modeling of Asphalt: Development and Applications", <i>Multiscale Science and Engineering</i> , 06 May 2022, doi: <a href="https://doi.org/10.1007/s42493-022-00076-x">https://doi.org/10.1007/s42493-022-00076-x</a> .   |
|   | # <a href="#">NIE Fenghua</a> , <a href="#">PAN Jinhua</a> , <a href="#">LI Dongming</a> , <a href="#">LIU Bin</a> , "基于修正权函数的多裂纹无网格模拟", <i>固体力学学报</i> , 43(2), 06 October 2021, pp 208-219, doi: <a href="https://doi.org/10.19636/j.cnki.cjcm42-1250/o3.2021.054">https://doi.org/10.19636/j.cnki.cjcm42-1250/o3.2021.054</a> .   |
|   | # <a href="#">NIE Fenghua</a> , <a href="#">JIAN Wei</a> , <a href="#">LAU Denvid</a> , "Advanced Self-Healing Asphalt Reinforced by Graphene Structures: An Atomistic Insight", <i>Journal of Visualized Experiments</i> , (183), 31 May 2022, doi: <a href="https://doi.org/10.3791/63303">https://doi.org/10.3791/63303</a> .  |
| <b>OJO Lekan Damilola</b>   | <a href="#">OSOSANMI Alaba Olasunkanmi</a> , <a href="#">#OJO Lekan Damilola</a> , <a href="#">OGUNDIMU Olajide Emmanuel</a> , <a href="#">OKE Ayodeji Emmanuel</a> , "Drivers of green supply chain management: a close-up study", <i>Environmental Science and Pollution Research</i> , 29(10), 07 October 2021, pp 14705-14718, doi: <a href="https://doi.org/10.1007/s11356-021-16638-9">https://doi.org/10.1007/s11356-021-16638-9</a> . |
|   | <a href="#">WADU MESTHRIGE Jayantha</a> , <a href="#">OLADINRIN Olugbenga Timo</a> , <a href="#">#OJO Lekan Damilola</a> , "Critical Barriers of Using Smart Home Technologies (SHTs) to the Elderly in Hong Kong", <i>Journal of Aging and Environment</i> , 23 April 2022, doi: <a href="https://doi.org/10.1080/26892618.2022.2062805">https://doi.org/10.1080/26892618.2022.2062805</a> .   |
|   | # <a href="#">AHMED Khursheed</a> , <a href="#">LEUNG Mei-yung</a> , <a href="#">#OJO Lekan Damilola</a> , "An Exploratory Study to Identify Key Stressors of Ethnic Minority Workers in the Construction Industry", <i>Journal of Construction Engineering and Management - ASCE</i> , 148(5), 09 March 2022, doi: <a href="https://doi.org/10.1061/(ASCE)CO.1943-7862.0002261">https://doi.org/10.1061/(ASCE)CO.1943-7862.0002261</a> .     |
|   | # <a href="#">OJO Lekan Damilola</a> , <a href="#">OGUNSEMI Deji Rufus</a> , <a href="#">OGUNSINA Olusola</a> , "Conceptual Framework of Value Management Adoption in the Nigerian Construction Industry", <i>Construction Innovation</i> , 16 August 2021, doi: <a href="https://doi.org/10.1108/CI-02-2021-0017">https://doi.org/10.1108/CI-02-2021-0017</a> .  |
|   | <a href="#">OLADINRIN Olugbenga Timo</a> , <a href="#">#OJO Lekan Damilola</a> , "Characterisation of the drivers of environmental management system implementation", <i>Engineering, Construction and</i>  |

Section A: Publications of PhD Students

|  |  |
|--|--|
|  | <i>Architectural Management</i> , 30 August 2021, doi: <a href="https://doi.org/10.1108/ECAM-04-2021-0356">https://doi.org/10.1108/ECAM-04-2021-0356</a> .   |
| <b>OUYANG Yewei</b>                        | # <a href="#">OUYANG Yewei</a> , <a href="#">LUO Xiaowei</a> , "Differences between inexperienced and experienced safety supervisors in identifying construction hazards: Seeking insights for training the inexperienced", <i>Advanced Engineering Informatics</i> , 52, 08 April 2022, doi: <a href="https://doi.org/10.1016/j.aei.2022.101602">https://doi.org/10.1016/j.aei.2022.101602</a> .  |
|  | CHEN Xinyang, # <a href="#">ZHU Yifan</a> , CHEN Hainan, # <a href="#">OUYANG Yewei</a> , <a href="#">LUO Xiaowei</a> , WU Xiaoling, "BIM-based optimization of camera placement for indoor construction monitoring considering the construction schedule", <i>Automation in Construction</i> , 130, 21 July 2021, doi: <a href="https://doi.org/10.1016/j.autcon.2021.103825">https://doi.org/10.1016/j.autcon.2021.103825</a> .  |
| <b>PAN Zhouzhou</b>                        | # <a href="#">PAN Zhouzhou</a> , ZHANG Lyuwen, <a href="#">LIEW Kim Meow</a> , "A phase-field framework for failure modeling of variable stiffness composite laminae", <i>Computer Methods in Applied Mechanics and Engineering</i> , 388, 19 October 2021, doi: <a href="https://doi.org/10.1016/j.cma.2021.114192">https://doi.org/10.1016/j.cma.2021.114192</a> .   |
| <b>QI Kaixuan</b>                          | # <a href="#">QI Kaixuan</a> , CHAI Hua, DUAN Qiangling, DU Yongjian, WANG Qingsong, SUN Jinhua, <a href="#">LIEW Kim Meow</a> , "A collaborative emergency decision making approach based on BWM and TODIM under interval 2-tuple linguistic environment", <i>International Journal of Machine Learning and Cybernetics</i> , 13, 19 September 2021, pp 383-405, doi: <a href="https://doi.org/10.1007/s13042-021-01412-7">https://doi.org/10.1007/s13042-021-01412-7</a> .   |
| <b>QIN Chao</b>                            | # <a href="#">QIN Chao</a> , # <a href="#">FANG Hongqiang</a> , # <a href="#">WU Shihai</a> , <a href="#">LU Weizhen Jane</a> , "Establishing multi-criteria optimization of return vent height for underfloor air distribution system", <i>Journal of Building Engineering</i> , 57, 17 June 2022, doi: <a href="https://doi.org/10.1016/j.jobe.2022.104800">https://doi.org/10.1016/j.jobe.2022.104800</a> .   |
|  | # <a href="#">QIN Chao</a> , ZHOU Wei-Ru, # <a href="#">FANG Hongqiang</a> , <a href="#">LU Weizhen Jane</a> , <a href="#">LEE Wai Ming</a> , "Optimization of return vent height for stratified air distribution system with impinging jet supply satisfying threshold of $ PMV  < 0.5$ ", <i>Journal of Cleaner Production</i> , 359, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.jclepro.2022.132033">https://doi.org/10.1016/j.jclepro.2022.132033</a> .  |
| <b>RATHNAYAKE Rathnayake M. N. Uthpala</b> | # <a href="#">RATHNAYAKE Rathnayake M. N. Uthpala</a> , # <a href="#">KARUNARATNE Tharindu Lakruwan Wickremanayake</a> , HAN Shousou, <a href="#">LAU Denuid</a> , <a href="#">CHOW Cheuk Lun</a> , "Experimental investigation on thermal performance of water wall systems exposed to fire", <i>Indoor and Built Environment</i> , 23 February 2022, doi: <a href="https://doi.org/10.1177/1420326X211057446">https://doi.org/10.1177/1420326X211057446</a> .  |
| <b>REN Jing</b>                            | # <a href="#">LI Siyue</a> , # <a href="#">REN Jing</a> , <a href="#">SARVADEVABHATLA Sathwik Kasyap</a> , <a href="#">SENETAKIS Kostas</a> , "Mechanical, micro-structure and contour mapping analyses of highly-porous intermediate-texture analog rock from instrumented micro-indentation in conjunction with statistical/machine learning tools", <i>Geomechanics and Geophysics for Geo-energy and Geo-Resources</i> , 8(3), 30 April 2022, doi: <a href="https://doi.org/10.1007/s40948-022-00404-3">https://doi.org/10.1007/s40948-022-00404-3</a> . |
|  | # <a href="#">REN Jing</a> , WANG F., HE H., <a href="#">SENETAKIS Kostas</a> , "The tribological behavior of analog mudrock interfaces in dry, water-immersed and guar-gum solution states", <i>Tribology International</i> , 165, 20 September 2021, doi: <a href="https://doi.org/10.1016/j.triboint.2021.107281">https://doi.org/10.1016/j.triboint.2021.107281</a> .  |
|  | # <a href="#">LUO Lina</a> , # <a href="#">REN Jing</a> , <a href="#">SARVADEVABHATLA Sathwik Kasyap</a> , <a href="#">SENETAKIS Kostas</a> , "A note on the influence of smectite coating on the coefficient of restitution of natural sand particles impacting granitic blocks", <i>Coatings</i> , 11(8), 20 August 2021, doi: <a href="https://doi.org/10.3390/coatings11080996">https://doi.org/10.3390/coatings11080996</a> .   |
|  | LI Haiwen, # <a href="#">REN Jing</a> , <a href="#">SENETAKIS Kostas</a> , COOP Matthew R., "A study of wave propagation and stiffness anisotropy in anisotropically loaded granular material-synthetic fiber binary systems", <i>Granular Matter</i> , 24(3), 16 June 2022, doi: <a href="https://doi.org/10.1007/s10035-022-01226-6">https://doi.org/10.1007/s10035-022-01226-6</a> .  |
|  | # <a href="#">REN Jing</a> , HE Huan, <a href="#">LAU Kai Chung</a> , <a href="#">SENETAKIS Kostas</a> , "Influence of iron oxide coating on the tribological behavior of sand grain contacts", <i>Acta Geotechnica</i> , 17(7), 29 October 2021, pp 2907-2929, doi: <a href="https://doi.org/10.1007/s11440-021-01367-7">https://doi.org/10.1007/s11440-021-01367-7</a> .   |
|  | # <a href="#">REN Jing</a> , HE Huan, <a href="#">SENETAKIS Kostas</a> , "A Micromechanical-Based Investigation on the Frictional Behaviour of Artificially Bonded Analogue Sedimentary Rock with Calcium Carbonate", <i>Pure and Applied Geophysics</i> , 178(11), 12 October 2021, pp 4461-4486, doi: <a href="https://doi.org/10.1007/s00024-021-02875-z">https://doi.org/10.1007/s00024-021-02875-z</a> .  |

Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
|                          | #REN Jing, SENETAKIS Kostas, "Experimental investigation on the tribological behavior and surface damage due to embedment of ceramic proppant – analog mudrock composite systems", <i>Journal of Petroleum Science and Engineering</i> , 213, 18 February 2022, doi: <a href="https://doi.org/10.1016/j.petrol.2022.110277">https://doi.org/10.1016/j.petrol.2022.110277</a> .             |
| <b>SHAFIQUE Muhammad</b> | CHENG Baoquan, LU Kun, LI Jianchang, CHEN Huihua, LUO Xiaowei, #SHAFIQUE Muhammad, "Comprehensive assessment of embodied environmental impacts of buildings using normalized environmental impact factors", <i>Journal of Cleaner Production</i> , 334, 15 December 2021, doi: <a href="https://doi.org/10.1016/j.jclepro.2021.130083">https://doi.org/10.1016/j.jclepro.2021.130083</a> . |
|                          | #SHAFIQUE Muhammad, RAFIQ Muhammad, AZAM Anam, LUO Xiaowei, "Material flow analysis for end-of-life lithium-ion batteries from battery electric vehicles in the USA and China", <i>Resources, Conservation and Recycling</i> , 178, 12 December 2021, doi: <a href="https://doi.org/10.1016/j.resconrec.2021.106061">https://doi.org/10.1016/j.resconrec.2021.106061</a> .                 |
|                          | AZAM Anam, RAFIQ Muhammad, #SHAFIQUE Muhammad, YUAN Jiahai, "Towards Achieving Environmental Sustainability: The Role of Nuclear Energy, Renewable Energy, and ICT in the Top-Five Carbon Emitting Countries", <i>Frontiers in Energy Research</i> , 9, 11 March 2022, doi: <a href="https://doi.org/10.3389/fenrg.2021.804706">https://doi.org/10.3389/fenrg.2021.804706</a> .            |
|                          | #SHAFIQUE Muhammad, LUO Xiaowei, "Environmental life cycle assessment of battery electric vehicles from the current and future energy mix perspective", <i>Journal of Environmental Management</i> , 303, 03 December 2021, doi: <a href="https://doi.org/10.1016/j.jenvman.2021.114050">https://doi.org/10.1016/j.jenvman.2021.114050</a> .   |
|                          | AZAM Anam, RAFIQ Muhammad, #SHAFIQUE Muhammad, YUAN Jiahai, "Does nuclear or renewable energy consumption help to control environmental pollution? New evidence from China", <i>Renewable Energy Focus</i> , 39, 03 September 2021, pp 139-147, doi: <a href="https://doi.org/10.1016/j.ref.2021.08.002">https://doi.org/10.1016/j.ref.2021.08.002</a> .                                   |
|                          | #SHAFIQUE Muhammad, AZAM Anam, RAFIQ Muhammad, LUO Xiaowei, "Life cycle assessment of electric vehicles and internal combustion engine vehicles: A case study of Hong Kong", <i>Research in Transportation Economics</i> , 91, 12 July 2021, doi: <a href="https://doi.org/10.1016/j.retrec.2021.101112">https://doi.org/10.1016/j.retrec.2021.101112</a> .                                |
|                          | AZAM Anam, RAFIQ Muhammad, #SHAFIQUE Muhammad, YUAN Jiahai, SALEM Sultan, "Human Development Index, ICT, and Renewable Energy-Growth Nexus for Sustainable Development: A Novel PVAR Analysis", <i>Frontiers in Energy Research</i> , 9, 25 November 2021, doi: <a href="https://doi.org/10.3389/fenrg.2021.760758">https://doi.org/10.3389/fenrg.2021.760758</a> .                        |
| <b>SHAO Di</b>           | TALAMINI Gianni, #SHAO Di, CHOW Andy, SUN Guibo, "The controversial impact of pedestrian guardrails on road crossing behaviours. Evidence from Hong Kong", <i>Urban Design International</i> , 27(2), 18 April 2022, pp 156–172, doi: <a href="https://doi.org/10.1057/s41289-022-00184-y">https://doi.org/10.1057/s41289-022-00184-y</a> .  |
| <b>SHEN Yixin</b>        | #FANG Hongqiang, LO Siu Ming, #ZHANG Yunjie, #SHEN Yixin, "Development of a machine-learning approach for identifying the stages of fire development in residential room fires", <i>Fire Safety Journal</i> , 126, 07 October 2021, doi: <a href="https://doi.org/10.1016/j.firesaf.2021.103469">https://doi.org/10.1016/j.firesaf.2021.103469</a> .                                       |
| <b>SHI Chao</b>          | #SHI Chao, WANG Yu, "Assessment of Reclamation-induced Consolidation Settlement Considering Stratigraphic Uncertainty and Spatial Variability of Soil Properties", <i>Canadian Geotechnical Journal</i> , 59(7), 09 December 2021, pp 1215-1230, doi: <a href="https://doi.org/10.1139/cgj-2021-0349">https://doi.org/10.1139/cgj-2021-0349</a> .  |
|                          | #SHI Chao, WANG Yu, "Training image selection for development of subsurface geological cross-section by conditional simulations", <i>Engineering Geology</i> , 295, 21 October 2021, doi: <a href="https://doi.org/10.1016/j.enggeo.2021.106415">https://doi.org/10.1016/j.enggeo.2021.106415</a> .  |
|                          | #SHI Chao, WANG Yu, "Smart Determination of Borehole Number and Locations for Stability Analysis of Multi-layered Slopes using Multiple Point Statistics and Information Entropy", <i>Canadian Geotechnical Journal</i> , 58(11), November 2021, pp 1669-1689, doi: <a href="https://doi.org/10.1139/cgj-2020-0327">https://doi.org/10.1139/cgj-2020-0327</a> .                            |
|                          | SHI Jiangwei, WEI Jiaqi, NG Charles W.W., LU Hu, MA Shaokun, #SHI Chao, LI Ping, "Effects of construction sequence of double basement excavations on an existing floating pile", <i>Tunnelling and Underground Space Technology</i> , 119, 28 October 2021, doi: <a href="https://doi.org/10.1016/j.tust.2021.104230">https://doi.org/10.1016/j.tust.2021.104230</a> .                     |

Section A: Publications of PhD Students

|              |   |
|--------------|---|
|              | <p>#SHI Chao, WANG Yu, "Data-driven construction of Three-dimensional subsurface geological models from limited Site-specific boreholes and prior geological knowledge for underground digital twin", <i>Tunnelling and Underground Space Technology</i>, 126, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.tust.2022.104493">https://doi.org/10.1016/j.tust.2022.104493</a>.</p> <p>WANG Yu, #SHI Chao, LI Xu, "Machine learning of geological details from borehole logs for development of high-resolution subsurface geological cross-section and geotechnical analysis", <i>Georisk</i>, 16(1), 30 September 2021, pp 2-20, doi: <a href="https://doi.org/10.1080/17499518.2021.1971254">https://doi.org/10.1080/17499518.2021.1971254</a>.</p>  |
| SHI Haoyun   | <p>LI Ming, LI Qiusheng, #SHI Haoyun, "Effect of sinusoidal vertical gust on the pressure distributions on and flow structures around a rectangular cylinder", <i>Experiments in Fluids</i>, 62(7), 01 July 2021, doi: <a href="https://doi.org/10.1007/s00348-021-03192-w">https://doi.org/10.1007/s00348-021-03192-w</a>.</p>   |
| SUN Cong     | <p>#SUN Cong, XUE Qiuli Charlie, "峥嵘 40 年: 深南大道与深圳建筑的现代化", <i>新建筑</i>, 2021(04 (No. 197)), 2021, pp 74-80, doi: <a href="https://doi.org/10.12069/j.na.202104074">https://doi.org/10.12069/j.na.202104074</a>.</p> <p>XUE Qiuli Charlie, #ZHANG Lujia, #SUN Cong, TALAMINI Gianni, "Cultural megastructures and Chinese cities in the 21st century: the case of grand theater", <i>Architecture Asia</i>, Sept 2021, September 2021, pp 4-15.</p>   |
| SUN Weikang  | <p>#SUN Weikang, ZHANG Lu-Wen, LIEW Kim Meow, "Adaptive particle refinement strategies in smoothed particle hydrodynamics", <i>Computer Methods in Applied Mechanics and Engineering</i>, 389, 25 November 2021, doi: <a href="https://doi.org/10.1016/j.cma.2021.114276">https://doi.org/10.1016/j.cma.2021.114276</a>.</p> <p>#SUN Weikang, ZHANG Lyuwen, LIEW Kim Meow, "Fast detection of free surface and surface tension modelling via single-phase SPH", <i>Applied Mathematical Modelling</i>, 100, 07 July 2021, pp 33-54, doi: <a href="https://doi.org/10.1016/j.apm.2021.06.029">https://doi.org/10.1016/j.apm.2021.06.029</a>.</p>   |
| TAO Neng     | <p>#TAO Neng, CHENG Yuan, XING Haoran, LO Siu Ming, LU Song, ZHANG Heping, "Thermal decomposition and fire-extinguishing mechanism of N(CF<sub>2</sub>CF<sub>3</sub>)<sub>3</sub> by ReaxFF-based molecular dynamics simulation and density functional theory calculation", <i>International Journal of Quantum Chemistry</i>, 122(12), 01 March 2022, doi: <a href="https://doi.org/10.1002/qua.26898">https://doi.org/10.1002/qua.26898</a>.</p>  |
| TIAN Xue     | <p>#TIAN Xue, #ZHANG Yuchun, LIN John Z, "Predicting non-uniform indoor air quality distribution by using pulsating air supply and SVM model", <i>Building and Environment</i>, 219, 07 May 2022, doi: <a href="https://doi.org/10.1016/j.buildenv.2022.109171">https://doi.org/10.1016/j.buildenv.2022.109171</a>.</p> <p>#TIAN Xue, LIN John Z, "Dynamic modelling of air temperature in breathing zone with stratum ventilation using a pulsating air supply", <i>Building and Environment</i>, 210, 22 December 2021, doi: <a href="https://doi.org/10.1016/j.buildenv.2021.108697">https://doi.org/10.1016/j.buildenv.2021.108697</a>.</p> <p>#TIAN Xue, CHENG Yong, LIN John Z, "Modelling indoor environment indicators using artificial neural network in the stratified environments", <i>Building and Environment</i>, 208, 14 November 2021, doi: <a href="https://doi.org/10.1016/j.buildenv.2021.108581">https://doi.org/10.1016/j.buildenv.2021.108581</a>.</p> <p>#TIAN Xue, CHENG Yong, #LIU Jian, LIN John Z, "Evaluation of sidewall air supply with the stratified indoor environment in a consultation room", <i>Sustainable Cities and Society</i>, 75, 02 September 2021, doi: <a href="https://doi.org/10.1016/j.scs.2021.103328">https://doi.org/10.1016/j.scs.2021.103328</a>.</p> |
| TIAN Yu      | <p>#TIAN Yu, SENETAKIS Kostas, "On the contact problem of soft-rigid interfaces: incorporation of Mindlin-Deresiewicz and self-deformation concepts", <i>Granular Matter</i>, 24(1), 15 December 2021, doi: <a href="https://doi.org/10.1007/s10035-021-01186-3">https://doi.org/10.1007/s10035-021-01186-3</a>.</p> <p>#TIAN Yu, SENETAKIS Kostas, "Influence of Creep and Sand Type on the Compression Behavior of Sand-Rubber Composites", <i>International Journal of Geomechanics</i>, 22(8), 30 May 2022, doi: <a href="https://doi.org/10.1061/(ASCE)GM.1943-5622.0002491">https://doi.org/10.1061/(ASCE)GM.1943-5622.0002491</a>.</p>   |
| WANG Guifeng | <p>#WANG Guifeng, GUAN Yanhong, CHEN Zhenyu, XU Xinsheng, ZHOU Zhenhuan, LIM C W, "Subwavelength thermally controlled acoustic topological interface states in split hollow spheres", <i>Mechanics of Advanced Materials and Structures</i>, 23 June 2022, doi: <a href="https://doi.org/10.1080/15376494.2022.2089787">https://doi.org/10.1080/15376494.2022.2089787</a>.</p> <p>#CHEN Zhenyu, #WANG Guifeng, #MAO Yida, LIM C W, "New Metamaterial Mathematical Modeling of Acoustic Topological Insulators via Tunable Underwater Local Resonance", <i>Applied Mathematical Modelling</i>, 108, 29 March 2022, pp 258-274, doi: <a href="https://doi.org/10.1016/j.apm.2022.03.023">https://doi.org/10.1016/j.apm.2022.03.023</a>.</p>   |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
|                      | <p>CHEN Zhenyu, #WANG Guifeng, SHI Fan, LIM C W, "Analytical modeling and numerical analysis for tunable topological phase transition of flexural waves in active sandwiched phononic beam systems", <i>International Journal of Mechanical Sciences</i>, 223, 14 April 2022, doi: <a href="https://doi.org/10.1016/j.ijmecsci.2022.107292">https://doi.org/10.1016/j.ijmecsci.2022.107292</a>.</p> <p>#CHEN Zhenyu, #WANG Guifeng, LIM C W, "Periodically alternated elastic support induced topological phase transition in phononic crystal beam systems", <i>International Journal of Solids and Structures</i>, 239-240, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.ijsolstr.2022.111461">https://doi.org/10.1016/j.ijsolstr.2022.111461</a>.</p>   |
| <b>WANG Jingjing</b> | <p>#WANG Jingjing, #WU Xueying, WANG Ruoyu, HE Dongsheng, LI Dongying, YANG Linchuan, #YANG Yiyang, LU Yi, "Review of associations between built environment characteristics and severe acute respiratory syndrome coronavirus 2 infection risk", <i>International Journal of Environmental Research and Public Health</i>, 18(14), 15 July 2021, doi: <a href="https://doi.org/10.3390/ijerph18147561">https://doi.org/10.3390/ijerph18147561</a>.</p>  |
| <b>WANG Xingquan</b> | <p>#WANG Xingquan, BÜYÜKÖZTÜRK Oral, LEUNG Christopher K.Y., LAU Denvi, "Atomistic prediction on the degradation of vinyl ester-based composite under chloride and elevated temperature", <i>Composites Science and Technology</i>, 226, 20 May 2022, doi: <a href="https://doi.org/10.1016/j.compscitech.2022.109539">https://doi.org/10.1016/j.compscitech.2022.109539</a>.</p>  |
| <b>WENG Jingwen</b>  | <p>#WENG Jingwen, XIAO Changren, YANG Xiaoqing, OUYANG Dongxu, CHEN Mingyi, ZHANG Guoqing, LEE Wai Ming, YUEN Kwok Kit Richard, WANG Jian, "An energy-saving battery thermal management strategy coupling tubular phase-change-material with dynamic liquid cooling under different ambient temperatures", <i>Renewable Energy</i>, 195, 13 June 2022, pp 918-930, doi: <a href="https://doi.org/10.1016/j.renene.2022.06.025">https://doi.org/10.1016/j.renene.2022.06.025</a>.</p> <p>#WENG Jingwen, XIAO Changren, OUYANG Dongxu, YANG Xiaoqing, CHEN Mingyi, ZHANG Guoqing, YUEN Kwok Kit Richard, WANG Jian, "Mitigation effects on thermal runaway propagation of structure-enhanced phase change material modules with flame retardant additives", <i>Energy</i>, 239(C), 17 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122087">https://doi.org/10.1016/j.energy.2021.122087</a>.</p> <p>WEI Ruichao, LAN Jiamei, LIAN Liping, HUANG Shenshi, ZHAO Chen, DONG Zhurong, #WENG Jingwen, "A bibliometric study on research trends in hydrogen safety", <i>Process Safety and Environmental Protection</i>, 159, 31 January 2022, pp 1064-1081, doi: <a href="https://doi.org/10.1016/j.psep.2022.01.078">https://doi.org/10.1016/j.psep.2022.01.078</a>.</p> <p>#WENG Jingwen, OUYANG Dongxu, YANG Xiaoqing, CHEN Mingyi, ZHANG Guoqing, WANG Jian, "Experimental study on thermal behavior of PCM-module coupled with various cooling strategies under different temperatures and protocols", <i>Applied Thermal Engineering</i>, 197, 22 July 2021, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2021.117376">https://doi.org/10.1016/j.applthermaleng.2021.117376</a>.</p> |
| <b>WU Shihai</b>     | <p>#QIN Chao, #FANG Hongqiang, #WU Shihai, LU Weizhen Jane, "Establishing multi-criteria optimization of return vent height for underfloor air distribution system", <i>Journal of Building Engineering</i>, 57, 17 June 2022, doi: <a href="https://doi.org/10.1016/j.jobbe.2022.104800">https://doi.org/10.1016/j.jobbe.2022.104800</a>.</p> <p>#WU Shihai, ZHANG Nan, LUO Xiaowei, LU Weizhen Jane, "Multi-objective optimization in floor tile planning: Coupling BIM and parametric design", <i>Automation in Construction</i>, 140, 30 May 2022, doi: <a href="https://doi.org/10.1016/j.autcon.2022.104384">https://doi.org/10.1016/j.autcon.2022.104384</a>.</p> <p>#WU Shihai, ZHANG Nan, XIANG Yujing, WU Dizi, QIAO Danping, LUO Xiaowei, LU Weizhen Jane, "Automated Layout Design Approach of Floor Tiles: Based on Building Information Modeling (BIM) via Parametric Design (PD) Platform", <i>Buildings</i>, 12(2), 21 February 2022, doi: <a href="https://doi.org/10.3390/buildings12020250">https://doi.org/10.3390/buildings12020250</a>.</p>  |
| <b>WU Xueying</b>    | <p>XIE Hui, HE Yi, #WU Xueying, LU Yi, "Interplay between auditory and visual environments in historic districts: A big data approach based on social media", <i>Environment and Planning B: Urban Analytics and City Science</i>, 49(4), 09 December 2021, pp 1245-1265, doi: <a href="https://doi.org/10.1177/23998083211059838">https://doi.org/10.1177/23998083211059838</a>.</p> <p>#WANG Jingjing, #WU Xueying, WANG Ruoyu, HE Dongsheng, LI Dongying, YANG Linchuan, #YANG Yiyang, LU Yi, "Review of associations between built environment characteristics and severe acute respiratory syndrome coronavirus 2 infection risk", <i>International Journal of Environmental Research and Public Health</i>, 18(14), 15 July 2021, doi: <a href="https://doi.org/10.3390/ijerph18147561">https://doi.org/10.3390/ijerph18147561</a>.</p>  |

Section A: Publications of PhD Students

|              |  |
|--------------|--|
|              | #WU Xueying, LU Yi, GONG Yongxi, KANG Yuhao, YANG Linchuan, GOU Zhonghua, "The impacts of the built environment on bicycle-metro transfer trips: A new method to delineate metro catchment area based on people's actual cycling space", <i>Journal of Transport Geography</i> , 97, 27 October 2021, doi: <a href="https://doi.org/10.1016/j.jtrangeo.2021.103215">https://doi.org/10.1016/j.jtrangeo.2021.103215</a> .   |
| XIAO Longzhu | LIU Jixiang, #XIAO Longzhu, ZHOU Jiangping, GUO Yuanyuan, YANG Linchuan, "建成环境与青少年步行通学的非线性关系——基于极限梯度提升模型的研究", <i>地理科学进展</i> , 41(2), February 2022, pp 251-263, doi: <a href="https://doi.org/10.18306/dlkxjz.2022.02.006">https://doi.org/10.18306/dlkxjz.2022.02.006</a> .   |
|              | LIU Jixiang, ZHOU Jiangping, #XIAO Longzhu, "Built environment correlates of walking for transportation: Differences between commuting and non-commuting trips", <i>Journal of Transport and Land Use</i> , 14(1), 20 October 2021, pp 1129-1148, doi: <a href="https://doi.org/10.5198/JTLU.2021.1933">https://doi.org/10.5198/JTLU.2021.1933</a> .   |
|              | LIU Jixiang, YANG Linchuan, #XIAO Longzhu, TAO Zhuolin, "Perceived Neighborhood Environment Impacts on Health Behavior, Multi-Dimensional Health, and Life Satisfaction", <i>Frontiers in Public Health</i> , 10, 14 March 2022, doi: <a href="https://doi.org/10.3389/fpubh.2022.850923">https://doi.org/10.3389/fpubh.2022.850923</a> .  |
| XIE Wei      | #XIE Wei, #GAO Dongli, LEE Wai Ming, "Detecting Undeclared-Leader-Follower Structure in Pedestrian Evacuation Using Transfer Entropy", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 06 April 2022, doi: <a href="https://doi.org/10.1109/TITS.2022.3161813">https://doi.org/10.1109/TITS.2022.3161813</a> .  |
|              | #XIE Wei, LEE Wai Ming, LEE Yiu Yin Raymond, "Simulation of spontaneous leader-follower behaviour in crowd evacuation", <i>Automation in Construction</i> , 134, 15 December 2021, doi: <a href="https://doi.org/10.1016/j.autcon.2021.104100">https://doi.org/10.1016/j.autcon.2021.104100</a> .  |
| XU Jiabao    | #XU Jiabao, WANG Yu, ZHANG Lulu, "Fusion of geotechnical and geophysical data for 2D subsurface site characterization using multi-sources Bayesian compressive sampling", <i>Canadian Geotechnical Journal</i> , 14 March 2022, doi: <a href="https://doi.org/10.1139/cgj-2021-0323">https://doi.org/10.1139/cgj-2021-0323</a> .   |
| YANG Wenjie  | ZHU San-E, #YANG Wenjie, ZHOU Yu, PAN Wei-Hao, WEI Chun-Xiang, YUEN Anthony Chun Yin, CHEN Timothy Bo Yuan, YEOH Guan Heng, LU Hong-Dian, YANG Wei, "Synthesis of zinc porphyrin complex for improving mechanical, UV-resistance, thermal stability and fire safety properties of polystyrene", <i>Chemical Engineering Journal</i> , 442(Part 2), 13 April 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.136367">https://doi.org/10.1016/j.cej.2022.136367</a> . |
|              | LIU Junjie, #YANG Wenjie, YANG Wei, LU Hongdian, "MXene 基薄膜的有序组装及其在储能和电磁干扰屏蔽中的应用", <i>复合材料学报</i> , 38(8), August 2021, pp 2404-2417, doi: <a href="https://doi.org/10.13801/j.cnki.fhclxb.20210408.001">https://doi.org/10.13801/j.cnki.fhclxb.20210408.001</a> .  |
|              | LIU Jun-Jie, #YANG Wenjie, XU Yu, YUEN Anthony Chun Yin, CHEN Timothy Bo Yuan, WEI Chun-Xiang, ZHU San-E, YEOH Guan Heng, YANG Wei, LU Hong-Dian, "MXene-based films via scalable fabrication with improved mechanical and antioxidant properties for electromagnetic interference shielding", <i>Composites Communications</i> , 31, April 2022, doi: <a href="https://doi.org/10.1016/j.coco.2022.101112">https://doi.org/10.1016/j.coco.2022.101112</a> .               |
|              | #YANG Wenjie, WEI Chun-Xiang, YUEN Anthony Chun Yin, LIN Bo, YEOH Guan Heng, LU Hong-Dian, YANG Wei, "Fire-retarded nanocomposite aerogels for multifunctional applications: A review", <i>Composites Part B: Engineering</i> , 237, 01 April 2022, doi: <a href="https://doi.org/10.1016/j.compositesb.2022.109866">https://doi.org/10.1016/j.compositesb.2022.109866</a> .   |
|              | PAN Wei-Hao, #YANG Wenjie, WEI Chun-Xiang, HAO Ling-Yun, LU Hong-Dian, YANG Wei, "Recent Advances in Zinc Hydroxystannate-Based Flame Retardant Polymer Blends", <i>Polymers</i> , 14(11), 27 May 2022, doi: <a href="https://doi.org/10.3390/polym14112175">https://doi.org/10.3390/polym14112175</a> .   |
| YANG Yiyang  | #WANG Jingjing, #WU Xueying, WANG Ruoyu, HE Dongsheng, LI Dongying, YANG Linchuan, #YANG Yiyang, LU Yi, "Review of associations between built environment characteristics and severe acute respiratory syndrome coronavirus 2 infection risk", <i>International Journal of Environmental Research and Public Health</i> , 18(14), 15 July 2021, doi: <a href="https://doi.org/10.3390/ijerph18147561">https://doi.org/10.3390/ijerph18147561</a> .                         |
| YAW Zoe      | #YAW Zoe, ZHOU Weijian, #CHEN Zhenyu, LIM C W, "Stiffness tuning of a functional-switchable active coding elastic metasurface", <i>International Journal of Mechanical Sciences</i> , 207, 13 July 2021, doi: <a href="https://doi.org/10.1016/j.ijmecsci.2021.106654">https://doi.org/10.1016/j.ijmecsci.2021.106654</a> .  |



Section A: Publications of PhD Students

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|                     | <p>#<u>YAW Zoe</u>, <u>ZHOU Weijian</u>, <u>LIM C W</u>, "Anomalous wave control by an adaptive elastic metasurface shunted with negative capacitance circuit", <i>Journal of Sound and Vibration</i>, 525, 20 January 2022, doi: <a href="https://doi.org/10.1016/j.jsv.2022.116782">https://doi.org/10.1016/j.jsv.2022.116782</a>.</p> <p>#<u>MUHAMMAD -</u>, <u>LIM C W</u>, #<u>YAW Zoe</u>, #<u>CHEN Zhenyu</u>, "Periodic and aperiodic 3-D composite metastructures with ultrawide bandgap for vibration and noise control", <i>Composite Structures</i>, 287, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.compstruct.2022.115324">https://doi.org/10.1016/j.compstruct.2022.115324</a>.</p>  |
| <b>YIN Binbin</b>   | <p>#<u>YIN Binbin</u>, <u>LEI Z.</u>, "Vibration characteristics of cracked FG-GRC plates in thermal environments based on phase field theory and meshless method", <i>Mechanics Based Design of Structures and Machines</i>, 09 March 2022, doi: <a href="https://doi.org/10.1080/15397734.2022.2047722">https://doi.org/10.1080/15397734.2022.2047722</a>.</p> <p>#<u>YIN Binbin</u>, <u>LIEW Kim Meow</u>, "Machine learning and materials informatics approaches for evaluating the interfacial properties of fiber-reinforced composites", <i>Composite Structures</i>, 273, 02 July 2021, doi: <a href="https://doi.org/10.1016/j.compstruct.2021.114328">https://doi.org/10.1016/j.compstruct.2021.114328</a>.</p> <p>#<u>ABDOH Daud Ali Ahmad</u>, #<u>YIN Binbin</u>, <u>LIEW Kim Meow</u>, "A phase-field thermomechanical framework for modeling failure and crack evolution in glass panes under fire", <i>Computer Methods in Applied Mechanics and Engineering</i>, 385, 06 August 2021, doi: <a href="https://doi.org/10.1016/j.cma.2021.114068">https://doi.org/10.1016/j.cma.2021.114068</a>.</p>   |
| <b>YUAN Mengqi</b>  | <p>ZHANG Shengxi, LI Zhongfu, LI Long, #<u>YUAN Mengqi</u>, "Interface Management Performance Assessment Framework for Sustainable Prefabricated Construction", <i>Buildings</i>, 12(5), 09 May 2022, doi: <a href="https://doi.org/10.3390/buildings12050631">https://doi.org/10.3390/buildings12050631</a>.</p> <p>#<u>YUAN Mengqi</u>, LI Zhongfu, LI Xiaodong, <u>LUO Xiaowei</u>, "Managing stakeholder-associated risks and their interactions in the life cycle of prefabricated building projects: A social network analysis approach", <i>Journal of Cleaner Production</i>, 323, 20 September 2021, doi: <a href="https://doi.org/10.1016/j.jclepro.2021.129102">https://doi.org/10.1016/j.jclepro.2021.129102</a>.</p> <p>ZHANG Shengxi, LI Zhongfu, LI Tianxin, #<u>YUAN Mengqi</u>, "A holistic literature review of building information modeling for prefabricated construction", <i>Journal of Civil Engineering and Management</i>, 27(7), 06 October 2021, pp 485-499, doi: <a href="https://doi.org/10.3846/jcem.2021.15600">https://doi.org/10.3846/jcem.2021.15600</a>.</p> <p>#<u>YUAN Mengqi</u>, LI Zhongfu, LI Xiaodong, LI Long, ZHANG Shengxi, <u>LUO Xiaowei</u>, "How to promote the sustainable development of prefabricated residential buildings in China: A tripartite evolutionary game analysis", <i>Journal of Cleaner Production</i>, 349, 21 March 2022, doi: <a href="https://doi.org/10.1016/j.jclepro.2022.131423">https://doi.org/10.1016/j.jclepro.2022.131423</a>.</p> <p>ZHANG Shengxi, LI Zhongfu, MA Shengbin, LI Long, #<u>YUAN Mengqi</u>, "Critical Factors Influencing Interface Management of Prefabricated Building Projects: Evidence from China", <i>Sustainability (Switzerland)</i>, 14(9), 30 April 2022, doi: <a href="https://doi.org/10.3390/su14095418">https://doi.org/10.3390/su14095418</a>.</p> <p>#<u>YUAN Mengqi</u>, LI Zhongfu, LI Xiaodong, <u>LUO Xiaowei</u>, YIN Xianfei, CAI Jin, "Proposing a multifaceted model for adopting prefabricated construction technology in the construction industry", <i>Engineering, Construction and Architectural Management</i>, 19 October 2021, doi: <a href="https://doi.org/10.1108/ECAM-07-2021-0613">https://doi.org/10.1108/ECAM-07-2021-0613</a>.</p> <p>#<u>ZHANG Ming</u>, SHU Lei, <u>LUO Xiaowei</u>, #<u>YUAN Mengqi</u>, ZHENG Xiazhong, "Virtual reality technology in construction safety training: Extended technology acceptance model", <i>Automation in Construction</i>, 135, 03 January 2022, doi: <a href="https://doi.org/10.1016/j.autcon.2021.104113">https://doi.org/10.1016/j.autcon.2021.104113</a>.</p> |
| <b>ZHANG Huihui</b> | <p>#<u>ZHANG Huihui</u>, <u>NUNAYON Sunday Segbenu</u>, #<u>JIN Xin</u>, <u>LAI Chi Keung Alvin</u>, "Pressure drop and nanoparticle deposition characteristics for multiple twisted tape inserts with partitions in turbulent duct flows", <i>International Journal of Heat and Mass Transfer</i>, 193, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.121474">https://doi.org/10.1016/j.ijheatmasstransfer.2021.121474</a>.</p> <p>#<u>JIN Xin</u>, #<u>ZHANG Huihui</u>, <u>HUANG Gongsheng</u>, <u>LAI Chi Keung Alvin</u>, "Experimental investigation on the dynamic thermal performance of the parallel solar-assisted air-source heat pump latent heat thermal energy storage system", <i>Renewable Energy</i>, 180, 26 August 2021, pp 637-657, doi: <a href="https://doi.org/10.1016/j.renene.2021.08.067">https://doi.org/10.1016/j.renene.2021.08.067</a>.</p> <p><u>NUNAYON Sunday Segbenu</u>, #<u>ZHANG Huihui</u>, CHAN Vincent, <u>KONG Yuen Chong Richard</u>, <u>LAI Chi Keung Alvin</u>, "Study of synergistic disinfection by UVC and positive/negative air ions for aerosolized <i>Escherichia coli</i>, <i>Salmonella typhimurium</i>, and <i>Staphylococcus</i></p>  |

Section A: Publications of PhD Students

|                     |  |
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|                     | <i>epidermidis</i> in ventilation duct flow", <i>Indoor Air</i> , 32(1), 19 November 2021, doi: <a href="https://doi.org/10.1111/ina.12957">https://doi.org/10.1111/ina.12957</a> .  |
| <b>ZHANG Lujia</b>  | <u>XUE Qiuli</u> Charlie, # <u>ZHANG Lujia</u> , # <u>SUN Cong</u> , <u>TALAMINI Gianni</u> , "Cultural megastructures and Chinese cities in the 21st century: the case of grand theater", <i>Architecture Asia</i> , Sept 2021, September 2021, pp 4-15.<br># <u>ZHANG Lujia</u> , <u>XUE Qiuli</u> Charlie, <u>WAN Yan</u> , "支点与缝合 — “非洲之角” 城市化进程中的中国援建", <i>新建筑</i> , (1), 01 April 2022, pp 139-145.  |
| <b>ZHANG Ming</b>   | # <u>ZHANG Ming</u> , <u>SHU Lei</u> , <u>LUO Xiaowei</u> , # <u>YUAN Mengqi</u> , <u>ZHENG Xiazhong</u> , "Virtual reality technology in construction safety training: Extended technology acceptance model", <i>Automation in Construction</i> , 135, 03 January 2022, doi: <a href="https://doi.org/10.1016/j.autcon.2021.104113">https://doi.org/10.1016/j.autcon.2021.104113</a> .  |
| <b>ZHANG Nan</b>    | # <u>LIANG Yuying</u> , # <u>ZHANG Nan</u> , <u>WU Huijun</u> , <u>XU Xinhua</u> , <u>DU Ke</u> , <u>YANG Jianming</u> , <u>SUN Qin</u> , <u>DONG Kaijun</u> , <u>HUANG Gongsheng</u> , "Thermal environment and thermal comfort built by decoupled radiant cooling units with low radiant cooling temperature", <i>Building and Environment</i> , 206, 10 September 2021, doi: <a href="https://doi.org/10.1016/j.buildenv.2021.108342">https://doi.org/10.1016/j.buildenv.2021.108342</a> .<br># <u>ZHANG Nan</u> , # <u>LIANG Yuying</u> , <u>WU Huijun</u> , <u>XU Xinhua</u> , <u>DU Ke</u> , <u>SHAO Zhenhua</u> , <u>ZHOU Xiuxia</u> , <u>HUANG Gongsheng</u> , "Heat transfer modeling and analysis of air-layer integrated radiant cooling unit", <i>Applied Thermal Engineering</i> , 194, 25 July 2021, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2021.117086">https://doi.org/10.1016/j.applthermaleng.2021.117086</a> .  |
| <b>ZHANG Pan</b>    | <u>LU Wei</u> , <u>DONG Chao</u> , # <u>ZHANG Pan</u> , <u>DONG Yi-meng</u> , <u>GUO Sheng-yu</u> , "城市轨道交通工程安全隐患网络特征分析", <i>工程管理学报</i> , 25(2), April 2022, pp 86-91.<br><u>SHAO Lijia</u> , <u>GUO Shengyu</u> , <u>DONG Yimeng</u> , <u>NIU Hongying</u> , # <u>ZHANG Pan</u> , "Cause analysis of construction collapse accidents using association rule mining", <i>Engineering, Construction and Architectural Management</i> , 01 June 2022, doi: <a href="https://doi.org/10.1108/ECAM-11-2021-0991">https://doi.org/10.1108/ECAM-11-2021-0991</a> .   |
| <b>ZHANG Ping</b>   | # <u>ZHANG Ping</u> , <u>YANG Lizhong</u> , <u>LO Siu Ming</u> , <u>WANG Dong</u> , <u>LI Maoyu</u> , <u>JIANG Jiajia</u> , # <u>JIANG Nan</u> , "Experimental study on evacuation behavior with guidance under high and low urgency conditions", <i>Safety Science</i> , 154, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.ssci.2022.105865">https://doi.org/10.1016/j.ssci.2022.105865</a> .<br># <u>ZHANG Ping</u> , <u>CHENG Han</u> , <u>HUANG Danyan</u> , <u>YANG Lizhong</u> , <u>LO Siu Ming</u> , <u>JU Xiaoyu</u> , "Experimental study on crowd following behavior under the effect of a leader", <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021(10), 08 October 2021, doi: <a href="https://doi.org/10.1088/1742-5468/ac1f27">https://doi.org/10.1088/1742-5468/ac1f27</a> .  |
| <b>ZHANG Xiao</b>   | # <u>LAN Meng</u> , <u>GARDONI Paolo</u> , <u>QIN Rongshui</u> , # <u>ZHANG Xiao</u> , <u>ZHU Jiping</u> , <u>LO Siu Ming</u> , "Modeling NaTech-related domino effects in process clusters: A network-based approach", <i>Reliability Engineering and System Safety</i> , 221, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.res.2022.108329">https://doi.org/10.1016/j.res.2022.108329</a> .  |
| <b>ZHANG Yelin</b>  | <u>LIU Jiangyang</u> , <u>YANG Xu</u> , <u>LIU Zhongbing</u> , <u>ZOU Juan</u> , <u>WU Yaling</u> , <u>ZHANG Ling</u> , # <u>ZHANG Yelin</u> , <u>XIAO Hui</u> , "Investigation and evaluation of building energy flexibility with energy storage system in hot summer and cold winter zones", <i>Journal of Energy Storage</i> , 46, 05 January 2022, doi: <a href="https://doi.org/10.1016/j.est.2021.103877">https://doi.org/10.1016/j.est.2021.103877</a> .<br># <u>ZHANG Yelin</u> , <u>TSE Chung Fai</u> Norman, <u>REN Haoshan</u> , <u>SUN Yongjun</u> , "A novel coordinated control for NZEB clusters to minimize their connected grid overvoltage risks", <i>Building Simulation</i> , 15(10), 06 March 2022, pp 1831–1848, doi: <a href="https://doi.org/10.1007/s12273-022-0892-1">https://doi.org/10.1007/s12273-022-0892-1</a> .<br><u>GAO Dian-Ce</u> , <u>SUN Yongjun</u> , <u>ZHANG Xingxing</u> , <u>HUANG Pei</u> , # <u>ZHANG Yelin</u> , "A GA-based NZEB-cluster planning and design optimization method for mitigating grid overvoltage risk", <i>Energy</i> , 243, 30 December 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.123051">https://doi.org/10.1016/j.energy.2021.123051</a> . |
| <b>ZHANG Yuchun</b> | # <u>LU Yalin</u> , # <u>ZHANG Yuchun</u> , <u>LIN John Z</u> , "Zonal model for predicting contaminant distribution in stratum ventilated rooms", <i>Indoor Air</i> , 32(6), 13 June 2022, doi: <a href="https://doi.org/10.1111/ina.13061">https://doi.org/10.1111/ina.13061</a> .   |

Section A: Publications of PhD Students

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|-------------------------------------|--|
|                                     | # <a href="#">TIAN Xue</a> , # <a href="#">ZHANG Yuchun</a> , <a href="#">LIN John Z</a> , "Predicting non-uniform indoor air quality distribution by using pulsating air supply and SVM model", <i>Building and Environment</i> , 219, 07 May 2022, doi: <a href="https://doi.org/10.1016/j.buildenv.2022.109171">https://doi.org/10.1016/j.buildenv.2022.109171</a> .  |
|                                     | TANG Tianwei, ZHOU Xiaoqing, # <a href="#">ZHANG Yuchun</a> , FENG Xiwen, LIU Weiwei, FANG Zhaosong, ZHENG Zhiming, "Investigation into the thermal comfort and physiological adaptability of outdoor physical training in college students", <i>Science of the Total Environment</i> , 839, 14 May 2022, doi: <a href="https://doi.org/10.1016/j.scitotenv.2022.155979">https://doi.org/10.1016/j.scitotenv.2022.155979</a> .                   |
|                                     | # <a href="#">ZHANG Yuchun</a> , <a href="#">LIN John Z</a> , FANG Zhaosong, ZHENG Zhiming, "An improved algorithm of thermal index models based on ENVI-met", <i>Urban Climate</i> , 44, 29 May 2022, doi: <a href="https://doi.org/10.1016/j.uclim.2022.101190">https://doi.org/10.1016/j.uclim.2022.101190</a> .  |
| <b>ZHANG Yunjie</b>                 | TANG Shengjun, LI Xiaoming, ZHENG Xianwei, WU Bo, WANG Weixi, # <a href="#">ZHANG Yunjie</a> , "BIM generation from 3D point clouds by combining 3D deep learning and improved morphological approach", <i>Automation in Construction</i> , 141, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.autcon.2022.104422">https://doi.org/10.1016/j.autcon.2022.104422</a> .  |
|                                     | # <a href="#">FANG Hongqiang</a> , <a href="#">LO Siu Ming</a> , # <a href="#">ZHANG Yunjie</a> , # <a href="#">SHEN Yixin</a> , "Development of a machine-learning approach for identifying the stages of fire development in residential room fires", <i>Fire Safety Journal</i> , 126, 07 October 2021, doi: <a href="https://doi.org/10.1016/j.firesaf.2021.103469">https://doi.org/10.1016/j.firesaf.2021.103469</a> .                      |
| <b>ZHENG Siqian</b>                 | # <a href="#">ZHENG Siqian</a> , # <a href="#">JIN Xin</a> , <a href="#">HUANG Gongsheng</a> , <a href="#">LAI Chi Keung Alvin</a> , "Coordination of commercial prosumers with distributed demand-side flexibility in energy sharing and management system", <i>Energy</i> , 248, 04 March 2022, doi: <a href="https://doi.org/10.1016/j.energy.2022.123634">https://doi.org/10.1016/j.energy.2022.123634</a> .                                 |
|                                     | # <a href="#">ZHENG Siqian</a> , <a href="#">HUANG Gongsheng</a> , <a href="#">LAI Chi Keung Alvin</a> , "Techno-economic performance analysis of synergistic energy sharing strategies for grid-connected prosumers with distributed battery storages", <i>Renewable Energy</i> , 178, November 2021, pp 1261-1278, doi: <a href="https://doi.org/10.1016/j.renene.2021.06.100">https://doi.org/10.1016/j.renene.2021.06.100</a> .              |
| <b>ZHOU Zhizuan</b>                 | # <a href="#">ZHOU Zhizuan</a> , ZHOU Xiaodong, WANG Boxuan, <a href="#">LIEW Kim Meow</a> , YANG Lizhong, "Experimentally exploring thermal runaway propagation and prevention in the prismatic lithium-ion battery with different connections", <i>Process Safety and Environmental Protection</i> , 164, 23 June 2022, pp 517-527, doi: <a href="https://doi.org/10.1016/j.psep.2022.06.048">https://doi.org/10.1016/j.psep.2022.06.048</a> . |
|                                     | # <a href="#">ZHOU Zhizuan</a> , JU Xiaoyu, ZHOU Xiaodong, YANG Lizhong, CAO Bei, "A comprehensive study on the impact of heating position on thermal runaway of prismatic lithium-ion batteries", <i>Journal of Power Sources</i> , 520, 20 December 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230919">https://doi.org/10.1016/j.jpowsour.2021.230919</a> .   |
|                                     | # <a href="#">ZHOU Zhizuan</a> , WANG Dong, PENG Yang, LI Maoyu, WANG Boxuan, CAO Bei, YANG Lizhong, "Experimental study on the thermal management performance of phase change material module for the large format prismatic lithium-ion battery", <i>Energy</i> , 238, 18 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122081">https://doi.org/10.1016/j.energy.2021.122081</a> .                                       |
| <b>ZHU Jiaqi</b>                    | # <a href="#">ZHU Jiaqi</a> , SUN Ligang, # <a href="#">BIE Zhiwu</a> , TIAN Xiaobao, <a href="#">HE Xiaoqiao</a> , "Tailored tensile properties of CoCrNi medium entropy alloy by tuning the elemental distribution", <i>Journal of Alloys and Compounds</i> , 897, 09 December 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.163171">https://doi.org/10.1016/j.jallcom.2021.163171</a> .  |
| <b>ZHU Yifan</b>                    | CHEN Xinyang, # <a href="#">ZHU Yifan</a> , CHEN Hainan, # <a href="#">OUYANG Yewei</a> , <a href="#">LUO Xiaowei</a> , WU Xiaoling, "BIM-based optimization of camera placement for indoor construction monitoring considering the construction schedule", <i>Automation in Construction</i> , 130, 21 July 2021, doi: <a href="https://doi.org/10.1016/j.autcon.2021.103825">https://doi.org/10.1016/j.autcon.2021.103825</a> .                |
| <b>ZHU Zhiren</b>                   | # <a href="#">ZHU Zhiren</a> , <a href="#">WANG Jianfeng Jeff</a> , <a href="#">WU Mengmeng</a> , "DEM simulation of particle crushing in a triaxial test considering the influence of particle morphology and coordination number", <i>Computers and Geotechnics</i> , 148, 11 May 2022, doi: <a href="https://doi.org/10.1016/j.compgeo.2022.104769">https://doi.org/10.1016/j.compgeo.2022.104769</a> .                                       |
| <b>Conference papers</b>            |  |
| <b>AGHIMIEN Emmanuel Imuetinyan</b> | <a href="#">LI Hin Wa</a> , # <a href="#">LI Shuyang</a> , # <a href="#">AGHIMIEN Emmanuel Imuetinyan</a> , "Study the impacts of external shading devices at top floors of high-rise buildings facing unobstructed skies", <i>The 11th International Symposium on Solar Energy and Efficient Energy Usage (SOLARIS 2021)</i> , Shibaura Institute of Technology (Online), Tokyo, Japan, 27-30 September 2021.                                   |

Section A: Publications of PhD Students

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|---------------------------|---|
|                           | <p><u>LI Hin Wa</u>, #AGHIMIEN Emmanuel Imuetinyan, #<u>LI Shuyang</u>, TSANG Ernest, "Estimation of vertical global solar irradiance using artificial neural networks", <i>The 11th International Symposium on Solar Energy and Efficient Energy Usage (SOLARIS 2021)</i>, Shibaura Institute of Technology (Online), Tokyo, Japan, 27-30 September 2021.</p> <p>TSANG Ernest Kin Wai, <u>LI Hin Wa</u>, #AGHIMIEN Emmanuel Imuetinyan, "Evaluation of daylight prediction algorithms in building energy performances under heavily obstructed urban topography", <i>9th Global Conference on Global Warming (GCGW-2021)</i>, Virtual, Croatia, 01-04 August 2021.</p> <p>#AGHIMIEN Emmanuel Imuetinyan, <u>LI Hin Wa</u>, TSANG Ernest Kin Wai, "Estimation of hourly solar irradiance and its implication on building energy efficiency", <i>9th Global Conference on Global Warming (GCGW-2021)</i>, Virtual, Croatia, 01-04 August 2021.</p> |
| <b>AHMED Khursheed</b>    | # <u>AHMED Khursheed</u> , <u>LEUNG Mei-yung</u> , "Exploring Acculturation Stressors of Ethnic Minority Workers in the Construction Industry", <i>Proceedings of the Joint CIB W099 &amp; W123 Annual International Conference 2021 - Good health, Changes &amp; innovations for improved wellbeing in construction</i> , Virtual, Glasgow, United Kingdom, 09-10 September 2021, pp 358-367, (ISBN: 978-1-91418-801-5).   |
| <b>CAO Nan</b>            | # <u>CAO Nan</u> , <u>CHEUNG Sai On</u> , "THE VOLUNTARINESS OF DISPUTANTS IN CONSTRUCTION MEDIATION", <i>Proceedings of International Structural Engineering and Construction - Theme: State-of-the-art Materials and Techniques in Structural Engineering and Construction</i> , Leipzig, Germany, 20-25 June 2022, pp LDR-02-1-LDR-02-6.   |
| <b>CHU Yung Jeh</b>       | # <u>CHU Yung Jeh</u> , <u>LAM Heung Fai</u> , "Analytical investigation on the performance of a morphing forward-folding blades wind turbine by using QBlade", <i>ACAM10 - 10th Australasian Congress on Applied Mechanics</i> , Virtual, 29 November - 01 December 2021, pp 658-666, (ISBN: 9781925627596).   |
| <b>DING Yuexiong</b>      | # <u>DING Yuexiong</u> , <u>LUO Xiaowei</u> , "Image captioning in chinese for construction activity scene understanding using a pre-trained cross-modal language model", <i>EG-ICE 2021 Proceedings - Workshop on Intelligent Computing in Engineering</i> , Fabrik23 & Virtual, Berlin, Germany, 30 June - 02 July 2021, pp 508-519, (ISBN: 978-3-7983-3211-9, 978-3-7983-3212-6).  |
| <b>FU Yumeng</b>          | <p><u>LI Xin</u>, #<u>FU Yumeng</u>, HAN Jiawen, "Coworking spaces in sustainable entrepreneurship ecosystem: Case studies of Shanghai and Shenzhen", <i>2021 Small Business Economics Special Issue on "Entrepreneurship and Sustainable Cities"</i>, Online, 06-08 July 2021.</p> <p>#<u>FU Yumeng</u>, "轨道交通影响下北京市边缘区人口空间分布特征", <i>2021 中国城市规划年会</i>, Chengdu, China, 25-30 September 2021, pp 45-59.</p>  |
| <b>LI Shuyang</b>         | <p><u>LI Hin Wa</u>, #<u>LI Shuyang</u>, #AGHIMIEN Emmanuel Imuetinyan, "Study the impacts of external shading devices at top floors of high-rise buildings facing unobstructed skies", <i>The 11th International Symposium on Solar Energy and Efficient Energy Usage (SOLARIS 2021)</i>, Shibaura Institute of Technology (Online), Tokyo, Japan, 27-30 September 2021.</p> <p><u>LI Hin Wa</u>, #AGHIMIEN Emmanuel Imuetinyan, #<u>LI Shuyang</u>, TSANG Ernest, "Estimation of vertical global solar irradiance using artificial neural networks", <i>The 11th International Symposium on Solar Energy and Efficient Energy Usage (SOLARIS 2021)</i>, Shibaura Institute of Technology (Online), Tokyo, Japan, 27-30 September 2021.</p>  |
| <b>LIN Sen</b>            | <p>#<u>LIN Sen</u>, "Bridging psychological distance of negotiation failure in construction dispute negotiation", <i>World Building Congress (WBC) 2022</i>, Hybrid, Melbourne, Australia, 27-30 June 2022.</p> <p>#<u>LIN Sen</u>, "The Intention to Settle Drivers of Construction Dispute Negotiation", <i>Proceedings of International Structural Engineering and Construction</i>, Leipzig, Germany, 20-25 June 2022.</p> <p>#<u>LIN Sen</u>, <u>CHEUNG Sai On</u>, "The Intention to Settle Drivers of Construction Dispute Negotiation", <i>Fourth European and Mediterranean Structural Engineering and Construction Conference</i>, Germany, Leipzig, Germany, 22-25 June 2022.</p> <p>#<u>LIN Sen</u>, <u>CHEUNG Sai On</u>, "Bridging psychological distance of negotiation failure in construction dispute negotiation", <i>CIB World Congress</i>.</p>   |
| <b>OJO Lekan Damilola</b> | ADENIYI Onaopepo, # <u>OJO Lekan Damilola</u> , LEO-OLAGBAYE Feyisetan, "Sustainable Development, Disaster Resilience, and the Changing Roles of a Quantity Surveyor: The   |

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|   | nexus", <i>2021 Proceedings of International Conference on Environmental Design and Management</i> , University of the West of England (UWE), Bristol, United Kingdom, 06-08 July 2021, pp 274-291, (ISBN: 978-37119-9-7).   |
|   | LEUNG Mei-yung, #OJO Lekan Damilola, #WEI Xiaoyi, "Exploring the Impact of Coronavirus (Covid-19) Pandemic on the Construction Industry: Quantity Surveyors' Perspective", <i>24TH ANNUAL PAQS 2021 CONGRESS - CREATING SMART CITIES TO HELP BUILD THE FUTURE (EMBRACING DIGITALIZATION AND SUSTAINABILITY): CONGRESS PLAYBOOK</i> , Virtual, 14-15 November 2021.   |
| <b>QIN Chao</b>                                       | #QIN Chao, #WU Shihai, LU Weizhen Jane, "Optimization of return vent height for an office cooled by an impinging jet ventilation system combining exhaust with lamps", <i>Proceedings of the 12nd International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2021)</i> , Seoul, Korea, 24-26 November 2021, Seoul, Korea, Democratic People's Republic of, 24-26 November 2021.  |
| <b>WANG Chendi</b>                                    | LEUNG Mei-yung, #WANG Chendi, "Impact of living environment on social relationships of the elderly with dementia in care and attention homes", <i>Environments by Design - Health, Wellbeing and Place</i> , Virtual, 01-03 December 2021.   |
| <b>WEI Xiaoyi</b>                                     | LEUNG Mei-yung, #OJO Lekan Damilola, #WEI Xiaoyi, "Exploring the Impact of Coronavirus (Covid-19) Pandemic on the Construction Industry: Quantity Surveyors' Perspective", <i>24TH ANNUAL PAQS 2021 CONGRESS - CREATING SMART CITIES TO HELP BUILD THE FUTURE (EMBRACING DIGITALIZATION AND SUSTAINABILITY): CONGRESS PLAYBOOK</i> , Virtual, 14-15 November 2021.   |
| <b>WU Shihai</b>                                      | #QIN Chao, #WU Shihai, LU Weizhen Jane, "Optimization of return vent height for an office cooled by an impinging jet ventilation system combining exhaust with lamps", <i>Proceedings of the 12nd International Symposium on Heating, Ventilation and Air Conditioning (ISHVAC 2021)</i> , Seoul, Korea, 24-26 November 2021, Seoul, Korea, Democratic People's Republic of, 24-26 November 2021.  |
| <b>Patents, agreements, assignments and companies</b> |  |
| <b>LIU Jian</b>                                       | LIN John Z, #LIU Jian, 雙溫空氣源熱泵機組, Patent No.: ZL202010655160.5, China, 17 June 2022.   |
| <b>All other outputs</b>                              |  |
| <b>ADEAGBO Mujib Olamide</b>                          | #ADEAGBO Mujib Olamide, <i>Markov Chain Monte Carlo-based Damage Detection of Ballasted Tracks Considering the Nonlinear Behavior of Ballast</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.   |
| <b>AHMED Khursheed</b>                                | #AHMED Khursheed, <i>Stress Management of Ethnic Minority Workers in the Construction Industry</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.   |
|   | #AHMED Khursheed, LEUNG Mei-yung, Best Mental Health Paper Award in Joint CIB W099 & W123 International Conference, Glasgow, United Kingdom, Proceeding Joint CIB W099 and W123 International Conference 2021, CIB W099, United Kingdom, 10 September 2021.  |
|   | #AHMED Khursheed, Best Student Paper 1st Runner Up Award in Joint CIB W099 & W123 International Conference, Glasgow, United Kingdom., CIB W099, 10 September 2021.   |
| <b>AHMED Wisal</b>                                    | #AHMED Wisal, LIM C W, #AKBAR Arslan, (Book / Software Review) "Influence of Elevated Temperatures on the Mechanical Performance of Sustainable-Fiber-Reinforced Recycled Aggregate Concrete: A Review", In recent times, the applications of fiber-reinforced recycled aggregate concrete (FRAC) in practical engineering have gained greater popularity due to its superior mechanical strength and fracture properties. To apply FRAC in buildings and other infrastructures, a thorough understanding of its residual mechanical properties and durability after exposure to fire is highly important. According to the established research, the properties and volume fractions of reinforcing fiber materials, replacement levels of recycled concrete aggregate (RCA), and heating condition would affect the thermal-mechanical properties of FRAC. This review paper aims to present a thorough and updated review of the mechanical performance at an |

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|                     | <p>elevated temperature and post-fire durability of FRAC reinforced with various types of fiber material, specifically steel fiber (SF), polypropylene (PP) fiber, and basalt fiber (BF). More explicitly, in this review article the residual mechanical properties of FRAC, such as compressive strength, splitting tensile capacity, modulus of elasticity, mass loss, spalling, and durability after exposure to elevated temperatures, are discussed. Furthermore, this study also encompasses the relationship among the dosages of fibers, replacement levels of recycled aggregate, and the relative residual mechanical properties of FRAC that would help in the optimum selection of the fiber content. Conclusively, this study elaborately reviews and summarizes the relevant and recent literature on recycled aggregate concrete containing SF, PP fiber, and BF. The study further provides a realistic comparison of these fibers in terms of the residual mechanical performance and durability of FRAC that would help in their future enhancements and applications in practical engineering., <i>Buildings</i>, 12(4), 14 April 2022, doi: <a href="https://doi.org/10.3390/buildings12040487">https://doi.org/10.3390/buildings12040487</a>.</p>   |
| <b>AKBAR Arslan</b> | <p>#<a href="#">AHMED Wisal</a>, <a href="#">LIM C W</a>, #AKBAR Arslan, (Book / Software Review) "Influence of Elevated Temperatures on the Mechanical Performance of Sustainable-Fiber-Reinforced Recycled Aggregate Concrete: A Review", In recent times, the applications of fiber-reinforced recycled aggregate concrete (FRAC) in practical engineering have gained greater popularity due to its superior mechanical strength and fracture properties. To apply FRAC in buildings and other infrastructures, a thorough understanding of its residual mechanical properties and durability after exposure to fire is highly important. According to the established research, the properties and volume fractions of reinforcing fiber materials, replacement levels of recycled concrete aggregate (RCA), and heating condition would affect the thermal-mechanical properties of FRAC. This review paper aims to present a thorough and updated review of the mechanical performance at an elevated temperature and post-fire durability of FRAC reinforced with various types of fiber material, specifically steel fiber (SF), polypropylene (PP) fiber, and basalt fiber (BF). More explicitly, in this review article the residual mechanical properties of FRAC, such as compressive strength, splitting tensile capacity, modulus of elasticity, mass loss, spalling, and durability after exposure to elevated temperatures, are discussed. Furthermore, this study also encompasses the relationship among the dosages of fibers, replacement levels of recycled aggregate, and the relative residual mechanical properties of FRAC that would help in the optimum selection of the fiber content. Conclusively, this study elaborately reviews and summarizes the relevant and recent literature on recycled aggregate concrete containing SF, PP fiber, and BF. The study further provides a realistic comparison of these fibers in terms of the residual mechanical performance and durability of FRAC that would help in their future enhancements and applications in practical engineering., <i>Buildings</i>, 12(4), 14 April 2022, doi: <a href="https://doi.org/10.3390/buildings12040487">https://doi.org/10.3390/buildings12040487</a>.</p> <p>#<a href="#">AKBAR Arslan</a>, <i>Eco-efficient Cement Composites Reinforced with Recycled Carbon Fibres</i>, PhD Thesis, Department of Architecture and Civil Engineering, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 03 August 2021.</p> |
| <b>CHEN Zhenyu</b>  | <p>#<a href="#">CHEN Zhenyu</a>, <i>Tunable Wave Propagation in Intelligent Acoustic/ Elastic Topological Metamaterials</i>, PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 28 July 2021.</p>  |
| <b>DU Yongjian</b>  | <p>#<a href="#">DU Yongjian</a>, <i>Pre-positioning, Allocation and Scheduling of Emergency Resources for Chemical Industrial Parks of Concentrated Areas</i>, PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.</p>  |
| <b>GUAN Zheng</b>   | <p>#<a href="#">GUAN Zheng</a>, <i>Smart Sampling Strategy for Geotechnical Site Investigation</i>, PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.</p>   |
| <b>HOU Jin</b>      | <p>#<a href="#">HOU Jin</a>, <i>Event-driven Optimal Control of AC Systems Based on High Necessity and Positive Reward of Optimization</i>, PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 30 November 2021.</p>   |

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| <b>HUANG Chuanli</b>                       | # <u>HUANG Chuanli</u> , <i>Influence of A Cyclist on Pedestrian Movement on A Shared Road</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 06 July 2021.  |
| <b>JIN Xin</b>                             | # <u>JIN Xin</u> , <i>Techno-economic Assessment of Latent Heat Thermal Energy Storage Integrated and Solar Assisted Heat Pump for Domestic Hot Water Systems</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 12 May 2022.              |
| <b>LI Ya</b>                               | # <u>LI Ya</u> , <i>Investigation on the Combustion Characteristics and Flame Inhibition of Bio-derived Oxygenated 2-methyltetrahydrofuran</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 29 June 2022.                                |
| <b>LIANG Kongzheng</b>                     | # <u>LIANG Kongzheng</u> , <i>Reinforcement of Knowledge in Safety Science: An Exploration of Introducing Multidisciplinary Theories into Construction Safety Research</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 05 October 2021. |
| <b>LIU Jian</b>                            | # <u>LIU Jian</u> , <i>Multi-temperature Zone Air Conditioning System and Optimization</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 28 September 2021.   |
| <b>LIU Weihe</b>                           | # <u>LIU Weihe</u> , <i>Development of Multiphase Models of Crack Bridging and Failure Analyses of Fiber-Reinforced Cementitious Composites</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 04 August 2021.                             |
| <b>MAO Yida</b>                            | # <u>MAO Yida</u> , <i>Thermo-acoustic Modeling and Computational Analysis for Carbon Nanotube Thin Film in Viscous Flow Fields</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>MI Renjie</b>                           | # <u>MI Renjie</u> , <i>Inhomogeneity Study and Prediction Model of Carbonation Depth of Recycled Aggregate Concrete</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 03 August 2021.  |
| <b>MUHAMMAD -</b>                          | # <u>MUHAMMAD -</u> , <i>Dynamic Characteristics of Phononic Metamaterials with Amplified Bandgaps for Wave Manipulation and Seismic Shielding Applications</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 26 July 2021.               |
| <b>PAN Zhouzhou</b>                        | # <u>PAN Zhouzhou</u> , <i>Mechanical and Optimal Design Studies of Functionally Graded and Variable Stiffness Composite Materials and Structures</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 04 August 2021.                       |
| <b>PENG Min</b>                            | # <u>PENG Min</u> , <i>Study on the Combustion Characteristics of Fires inside the Subway Train with Multiple Lateral Openings</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.  |
| <b>QI Kaixuan</b>                          | # <u>QI Kaixuan</u> , <i>Making Emergency Decision Based on Fuzzy and Uncertain Multiple Attribute Decision</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.   |
| <b>RATHNAYAKE Rathnayake M. N. Uthpala</b> | # <u>RATHNAYAKE Rathnayake M. N. Uthpala</u> , <i>Performance Assessment of Green Façade Design with Water Wall System</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 23 August 2021.  |
| <b>SHAFIQUE Muhammad</b>                   | # <u>SHAFIQUE Muhammad</u> , <i>Environmental Evaluation of Battery Electric Vehicles: Integration of Life Cycle Assessment and Circular Economy</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.                     |
| <b>SHEN Yixin</b>                          | # <u>SHEN Yixin</u> , <i>A Study on the Efficiency and Optimization of Passenger Flow on Metro Platform</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 27 July 2021.   |
| <b>SHI Chao</b>                            | # <u>SHI Chao</u> , <i>Machine Learning of Subsurface Geological Models from Sparse Site-specific Data and Prior Geological Knowledge for Underground Digital Twin</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 01 March 2022.       |

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| <b>SUN Cong</b>     | # <u>SUN Cong</u> , <i>The Production of Cultural Mega-structures and the Making of Chinese City Centers: Taking Grand Theaters as Examples</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 19 November 2021.                             |
| <b>TIAN Yu</b>      | # <u>TIAN Yu</u> , <i>Investigation of the Behaviour of Sand-rubber Composite Interfaces at Different Scales</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 25 April 2022.   |
| <b>WANG Chendi</b>  | # <u>WANG Chendi</u> , <i>Luminous Facilities Management for Older People in Care and Attention Homes</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 23 September 2021.  |
| <b>WANG Xinhao</b>  | # <u>WANG Xinhao</u> , <i>Feasibility Study of Deploying Floating Houses in Metropolitan Coastal Cities Under Near-shore and Off-shore Conditions</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.                         |
| <b>WEI Xiaoyi</b>   | # <u>WEI Xiaoyi</u> , <i>Value Management in Construction Projects Along the Belt and Road Regions</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 20 October 2021.   |
| <b>XIAO Longzhu</b> | # <u>XIAO Longzhu</u> , <i>Effects of Transit-Oriented Development on Urban Vibrancy: Nonlinearity, Synergism, and Geographic Contexts</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 08 July 2021.                                      |
| <b>XIN Fang</b>     | # <u>XIN Fang</u> , <i>Meta-analysis on Factors Influencing Soil Sorption and Bivalve Bioaccumulation of Hydrophobic Organic Contaminants</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.                                   |
| <b>YANG Dong</b>    | # <u>YANG Dong</u> , <i>Peridynamic Modeling of Fracture Mechanism in Quasi-brittle Materials</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 13 August 2021.   |
| <b>YANG Hao</b>     | # <u>YANG Hao</u> , <i>Experimental and Theoretical Study on Static and Cyclic Liquefaction Behaviours of Sands</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 29 December 2021.   |
| <b>YANG Yiyang</b>  | # <u>YANG Yiyang</u> , <i>Impact of Urban Greenery on Travel Behavior in High-density Asian City: A Case Study in Hong Kong</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 30 August 2021.   |
| <b>YIN Binbin</b>   | # <u>YIN Binbin</u> , <i>A Framework for Phase-Field Modeling of Damage Evaluation in Heterogeneous Materials</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 04 August 2021.   |
| <b>ZHANG Huihui</b> | # <u>ZHANG Huihui</u> , <i>Study of Twisted Tapes and Vortex Generators on the Enhancement of Ultrafine Particle Deposition and Flow Resistance in Air Channel</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 06 August 2021.            |
| <b>ZHANG Ping</b>   | # <u>ZHANG Ping</u> , OUTSTANDING PRESENTATION AWARD, The 14th USTC-CityU PhD Student Online Workshop, 14th Online PhD Student Workshop, University of Science and Technology of China, China, 19 November 2021.  |
| <b>ZHANG Yelin</b>  | # <u>ZHANG Yelin</u> , <i>System Design and Control Optimizations of Net-Zero Energy Buildings to Minimize the Overvoltage Risk of Connected Power Distribution Network</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 28 February 2022. |
| <b>ZHAO Zhen</b>    | # <u>ZHAO Zhen</u> , <i>A Study on the Design Methods on a New Type of Thin-walled Square Tubes for Energy Absorption with Surface Nanocrystallization</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 08 July 2021.                      |
| <b>ZHENG Dapeng</b> | # <u>ZHENG Dapeng</u> , <i>Performance and Mechanism of Cementitious Composites Modified with Cellulose Nanocrystals</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.  |



Section A: Publications of PhD Students

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| <b>ZHENG Zhuang</b>                         | #ZHENG Zhuang, <i>Path to Next-Generation Smart Home Energy Management System</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.  |
| <b>ZORDAN Mirna</b>                         | #ZORDAN Mirna, <i>The Integration of Psychology-driven Constructs Within the Environment-behaviour Urban Paradigm, A Different Perspective</i> , PhD Thesis, Department of Architecture and Civil Engineering, City University of Hong Kong, Hong Kong, PRC, 10 September 2021.  |
| <b>DEPARTMENT OF BIOMEDICAL ENGINEERING</b> |  |
| <b>Journal publications</b>                 |  |
| <b>BAI Songnan</b>                          | #BAI Songnan, CHIRARATTANANON Pakpong, "SplitFlyer Air: A Modular Quadcopter That Disassembles Into Two Bicopters Mid-Air", <i>IEEE/ASME Transactions on Mechatronics</i> , 22 April 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3164886">https://doi.org/10.1109/TMECH.2022.3164886</a> .  |
|   | #BAI Songnan, HE Qingning, CHIRARATTANANON Pakpong, "A bioinspired revolving-wing drone with passive attitude stability and efficient hovering flight", <i>Science Robotics</i> , 7(66), 11 May 2022, doi: <a href="https://doi.org/10.1126/scirobotics.abg5913">https://doi.org/10.1126/scirobotics.abg5913</a> .   |
|   | #JIA Huaiyuan, #BAI Songnan, #DING Runze, SHU Jing, #DENG Yanlin, KHOO Bee Luan, CHIRARATTANANON Pakpong, "A Quadrotor with a Passively Reconfigurable Airframe for Hybrid Terrestrial Locomotion", <i>IEEE/ASME Transactions on Mechatronics</i> , 22 April 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3164929">https://doi.org/10.1109/TMECH.2022.3164929</a> .  |
|   | #CHEN Jiangbo, ZHANG Yachao, #BAI Songnan, #ZHU Jingyi, CHIRARATTANANON Pakpong, NI Kai, ZHOU Qian, WANG Lidai, "Dual-foci fast-scanning photoacoustic microscopy with 3.2-MHz A-line rate", <i>Photoacoustics</i> , 23, 09 August 2021, doi: <a href="https://doi.org/10.1016/j.pacs.2021.100292">https://doi.org/10.1016/j.pacs.2021.100292</a> .  |
|   | #DING Runze, HSIAO Yi Hsuan, #JIA Huaiyuan, #BAI Songnan, CHIRARATTANANON Pakpong, "Passive Wall Tracking for a Rotorcraft with Tilted and Ducted Propellers using Proximity Effects", <i>IEEE Robotics and Automation Letters</i> , 7(2), 06 January 2022, pp 1581-1588, doi: <a href="https://doi.org/10.1109/LRA.2022.3140821">https://doi.org/10.1109/LRA.2022.3140821</a> .   |
|   | #BAI Songnan, #DING Runze, CHIRARATTANANON Pakpong, "A Micro Aircraft with Passive Variable-Sweep Wings", <i>IEEE Robotics and Automation Letters</i> , 7(2), 07 February 2022, pp 4016-4023, doi: <a href="https://doi.org/10.1109/LRA.2022.3149034">https://doi.org/10.1109/LRA.2022.3149034</a> .   |
| <b>CAO Hui</b>                              | #CAO Hui, #XING Liuxi, MO Hangjie, LI Dongfang, SUN Dong, "Image-Guided Corridor-Based Motion Planning and Magnetic Control of Microrotor in Dynamic Environments", <i>IEEE/ASME Transactions on Mechatronics</i> , 22 June 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3181588">https://doi.org/10.1109/TMECH.2022.3181588</a> .   |
| <b>CAO Wenji</b>                            | ZHU Wei, #CAO Wenji, YAN Mingzhu, LI Qingdu, "Event-Triggered Formation Control of Multiagent Systems With Linear Continuous-Time Dynamic Models", <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 28 January 2022, doi: <a href="https://doi.org/10.1109/TSMC.2022.3144161">https://doi.org/10.1109/TSMC.2022.3144161</a> .  |
| <b>CHAN Pak Yu</b>                          | SHIU Kin Hei, #CHAN Pak Yu, KOH Keng Huat, SO Chun Ho, THAIKA MUTHUWAPPA Ahmed Musthafa Farhan, HO Chun Yiu, WONG Tsz Hei, LAI Wai Chiu King, "Remote Rotary Mixing and Spraying of Plural Component Protective Coating for Underground Pipe Internal Rehabilitation Lining", <i>IEEE Robotics and Automation Letters</i> , 7(2), 25 January 2022, pp 3114 -3121, doi: <a href="https://doi.org/10.1109/LRA.2022.3144780">https://doi.org/10.1109/LRA.2022.3144780</a> . |
| <b>CHEN Chun Kwan</b>                       | #CHEN Chun Kwan, ZHANG Jing, BHINGARDE Advait, MATOTEK Tanzania, BARRETT Justine, HARDESTY Britta D., BANASZAK HOLL Mark M., KHOO Bee Luan, "A portable purification system for the rapid removal of microplastics from environmental samples", <i>Chemical Engineering Journal</i> , 428, 24 September 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132614">https://doi.org/10.1016/j.cej.2021.132614</a> .   |
|   | LIU Sylvia Yang, #DENG Yanlin, #CHEN Chun Kwan, KHOO Bee Luan, CHUA Song Lin, "Rapid detection of microorganisms in a fish infection microfluidics platform", <i>Journal of Hazardous Materials</i> , 431, 25 February 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128572">https://doi.org/10.1016/j.jhazmat.2022.128572</a> .  |
| <b>CHEN Jiangbo</b>                         | AMJADIAN Mohammadreza, MOSTAFAVI Seyed Masood, #CHEN Jiangbo, WANG Lidai, LUO Zhengtang, "Super-Resolution Photoacoustic Microscopy via Modified Phase Compounding", <i>IEEE Transactions on Medical Imaging</i> , 21 June 2022, doi: <a href="https://doi.org/10.1109/TMI.2022.3184711">https://doi.org/10.1109/TMI.2022.3184711</a> .  |

Section A: Publications of PhD Students

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|---------------------|---|
|                     | <p>#ZHU Jingyi, LIU Chao, LIU Yan, #CHEN Jiangbo, ZHANG Yachao, #YAO Kuanming, WANG Lidai, "Self-fluence-compensated functional photoacoustic microscopy", <i>IEEE Transactions on Medical Imaging</i>, 40(12), 26 July 2021, pp 3856-3866, doi: <a href="https://doi.org/10.1109/TMI.2021.3099820">https://doi.org/10.1109/TMI.2021.3099820</a>.</p>   |
|                     | <p>#CHEN Jiangbo, ZHANG Yachao, #BAI Songnan, #ZHU Jingyi, CHIRARATTANANON Pakpong, NI Kai, ZHOU Qian, WANG Lidai, "Dual-foci fast-scanning photoacoustic microscopy with 3.2-MHz A-line rate", <i>Photoacoustics</i>, 23, 09 August 2021, doi: <a href="https://doi.org/10.1016/j.pacs.2021.100292">https://doi.org/10.1016/j.pacs.2021.100292</a>.</p>  |
|                     | <p>CHENG Shengfu, ZHOU Yingying, #CHEN Jiangbo, LI Huanhao, WANG Lidai, LAI Puxiang, "High-resolution photoacoustic microscopy with deep penetration through learning", <i>Photoacoustics</i>, 25, 03 November 2021, doi: <a href="https://doi.org/10.1016/j.pacs.2021.100314">https://doi.org/10.1016/j.pacs.2021.100314</a>.</p>  |
|                     | <p>LI Dengfeng, ZHANG Yachao, LIU Chao, #CHEN Jiangbo, SUN Dong, WANG Lidai, "Review of photoacoustic imaging for microrobots tracking <i>in vivo</i>", <i>Chinese Optics Letters</i>, 19(11), 06 September 2021, doi: <a href="https://doi.org/10.3788/COL202119.111701">https://doi.org/10.3788/COL202119.111701</a>.</p>   |
|                     | <p>HE Linyun, ZHANG Yachao, #CHEN Jiangbo, #LIU Gongyuan, #ZHU Jingyi, #LI Xiaozhen, LI Dengfeng, YANG Yuqi, LEE Chun Sing, SHI Jiahai, YIN Chao, LAI Puxiang, WANG Lidai, FANG Chihua, "A multifunctional targeted nanoprobe with high NIR-II PAI/MRI performance for precise theranostics of orthotopic early-stage hepatocellular carcinoma", <i>Journal of Materials Chemistry B</i>, 9(42), 18 September 2021, pp 8779-8792, doi: <a href="https://doi.org/10.1039/d1tb01729b">https://doi.org/10.1039/d1tb01729b</a>.</p> |
| <b>CHEN Zilin</b>   | <p>HUANG Jianpan, #LAI Ho Chi Joseph, HAN Xiongqi, #CHEN Zilin, #XIAO Peng, #LIU Yang, CHEN Lin, XU Jiadi, CHAN Wai Yan Kannie, "Sensitivity schemes for dynamic glucose-enhanced magnetic resonance imaging to detect glucose uptake and clearance in mouse brain at 3 T", <i>NMR in Biomedicine</i>, 35(3), 08 November 2021, doi: <a href="https://doi.org/10.1002/nbm.4640">https://doi.org/10.1002/nbm.4640</a>.</p>   |
|                     | <p>HUANG Jianpan, XU Jiadi, #LAI Ho Chi Joseph, #CHEN Zilin, LEE Chi Yan, MAK Henry K.F., CHAN Koon Ho, CHAN Wai Yan Kannie, "Relayed nuclear Overhauser effect weighted (rNOEw) imaging identifies multiple sclerosis", <i>NeuroImage: Clinical</i>, 32, 28 October 2021, doi: <a href="https://doi.org/10.1016/j.nicl.2021.102867">https://doi.org/10.1016/j.nicl.2021.102867</a>.</p>  |
|                     | <p>HUANG Jianpan, #LAI Ho Chi Joseph, TSE Kai-hei, CHENG Gerald W. Y., #LIU Yang, #CHEN Zilin, HAN Xiongqi, CHEN Lin, XU Jiadi, CHAN Wai Yan Kannie, "Deep neural network based CEST and AREX processing: Application in imaging a model of Alzheimer's disease at 3 T", <i>Magnetic Resonance in Medicine</i>, 87(3), 17 October 2021, pp 1529-1545, doi: <a href="https://doi.org/10.1002/mrm.29044">https://doi.org/10.1002/mrm.29044</a>.</p>   |
|                     | <p>HUANG Jianpan, #CHEN Zilin, #PARK Se Weon, #LAI Ho Chi Joseph, CHAN Wai Yan Kannie, "Molecular Imaging of Brain Tumors and Drug Delivery Using CEST MRI: Promises and Challenges", <i>Pharmaceutics</i>, 14(2), 20 February 2022, doi: <a href="https://doi.org/10.3390/pharmaceutics14020451">https://doi.org/10.3390/pharmaceutics14020451</a>.</p>  |
| <b>CHU Lok Ting</b> | <p>#WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, CHOW Hiu Lam, LI Iris Wai-Sum, CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i>, 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a>.</p>   |
| <b>CUI Chenyu</b>   | <p>#CUI Chenyu, CHEN Ting Hsuan, "Visual Quantitation of Copper Ions Based on a Microfluidic Particle Dam Reflecting the Cu(II)-Catalyzed Oxidative Damage of DNA", <i>Biosensors</i>, 11(12), 30 November 2021, doi: <a href="https://doi.org/10.3390/bios11120487">https://doi.org/10.3390/bios11120487</a>.</p>  |
| <b>DENG Yanlin</b>  | <p>#JIA Huaiyuan, #BAI Songnan, #DING Runze, SHU Jing, #DENG Yanlin, KHOO Bee Luan, CHIRARATTANANON Pakpong, "A Quadrotor with a Passively Reconfigurable Airframe for Hybrid Terrestrial Locomotion", <i>IEEE/ASME Transactions on Mechatronics</i>, 22 April 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3164929">https://doi.org/10.1109/TMECH.2022.3164929</a>.</p>  |
|                     | <p>LIU Sylvia Yang, #DENG Yanlin, #CHEN Chun Kwan, KHOO Bee Luan, CHUA Song Lin, "Rapid detection of microorganisms in a fish infection microfluidics platform", <i>Journal of Hazardous Materials</i>, 431, 25 February 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128572">https://doi.org/10.1016/j.jhazmat.2022.128572</a>.</p>  |

Section A: Publications of PhD Students

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|                     | ZHANG Tianfu , #DENG Yanlin, LIU Sylvia Yang, CHUA Song Lin, TANG Ben Zhong, <u>KHOO Bee Luan</u> , "Bacterial Targeted AIE Photosensitizers Synergistically Promote Chemotherapy for the Treatment of Inflammatory Cancer", <i>Chemical Engineering Journal</i> , 447, 15 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137579">https://doi.org/10.1016/j.cej.2022.137579</a> .   |
|                     | #LI Wei, ZHOU Yunlan, #DENG Yanlin, <u>KHOO Bee Luan</u> , "Early Predictor Tool of Disease Using Label-Free Liquid Biopsy-Based Platforms for Patient-Centric Healthcare", <i>Cancers</i> , 14(3), 06 February 2022, doi: <a href="https://doi.org/10.3390/cancers14030818">https://doi.org/10.3390/cancers14030818</a> .   |
| <b>DING Runze</b>   | #JIA Huaiyuan, #BAI Songnan, #DING Runze, SHU Jing, #DENG Yanlin, <u>KHOO Bee Luan</u> , <u>CHIRARATTANANON Pakpong</u> , "A Quadrotor with a Passively Reconfigurable Airframe for Hybrid Terrestrial Locomotion", <i>IEEE/ASME Transactions on Mechatronics</i> , 22 April 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3164929">https://doi.org/10.1109/TMECH.2022.3164929</a> .  |
|                     | #DING Runze, HSIAO Yi Hsuan, #JIA Huaiyuan, #BAI Songnan, <u>CHIRARATTANANON Pakpong</u> , "Passive Wall Tracking for a Rotorcraft with Tilted and Ducted Propellers using Proximity Effects", <i>IEEE Robotics and Automation Letters</i> , 7(2), 06 January 2022, pp 1581-1588, doi: <a href="https://doi.org/10.1109/LRA.2022.3140821">https://doi.org/10.1109/LRA.2022.3140821</a> .   |
|                     | #BAI Songnan, #DING Runze, <u>CHIRARATTANANON Pakpong</u> , "A Micro Aircraft with Passive Variable-Sweep Wings", <i>IEEE Robotics and Automation Letters</i> , 7(2), 07 February 2022, pp 4016-4023, doi: <a href="https://doi.org/10.1109/LRA.2022.3149034">https://doi.org/10.1109/LRA.2022.3149034</a> .   |
| <b>DONG Dingran</b> | #JIA Yuanjun, #ZHENG Liushuai, #DONG Dingran, WANG Yong, <u>SUN Dong</u> , "Robust Navigation Control of a Microrobot With Hysteresis Compensation", <i>IEEE Transactions on Automation Science and Engineering</i> , 30 August 2021, doi: <a href="https://doi.org/10.1109/TASE.2021.3106022">https://doi.org/10.1109/TASE.2021.3106022</a> .   |
|                     | #DONG Dingran, #XING Liuxi, #ZHENG Liushuai, #JIA Yuanjun, <u>SUN Dong</u> , "Automated 3-D Electromagnetic Manipulation of Microrobot With a Path Planner and a Cascaded Controller", <i>IEEE Transactions on Control Systems Technology</i> , 28 December 2021, doi: <a href="https://doi.org/10.1109/TCST.2021.3135895">https://doi.org/10.1109/TCST.2021.3135895</a> .   |
|                     | #ZHENG Liushuai, #JIA Yuanjun, #DONG Dingran, #LAM Wah Shing, <u>LI Dongfang</u> , <u>JI Haibo</u> , <u>SUN Dong</u> , "3D Navigation Control of Untethered Magnetic Microrobot in Centimeter-Scale Workspace Based on Field-of-View Tracking Scheme", <i>IEEE Transactions on Robotics</i> , 22 November 2021, doi: <a href="https://doi.org/10.1109/TRO.2021.3118205">https://doi.org/10.1109/TRO.2021.3118205</a> .   |
| <b>FANG Peilin</b>  | #ZHAO Xi, #JI Xianglin, #QU Jin, XIE Kai, <u>WANG Zixun</u> , #FANG Peilin, #WANG Yuan, #WAN Youyang, YANG Yang, <u>ZHANG Wenjun</u> , <u>SHI Peng</u> , "Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs", <i>Journal of the American Chemical Society</i> , 144(13), 23 March 2022, pp 6010–6018, doi: <a href="https://doi.org/10.1021/jacs.2c01036">https://doi.org/10.1021/jacs.2c01036</a> .  |
| <b>GAO Yuyu</b>     | #HUANG Xingcan, LI Hu, <u>LI Jiyu</u> , #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, <u>LI Dengfeng</u> , <u>WU Mengge</u> , HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, <u>SHI Rui</u> , ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, <u>YE Ruquan</u> , <u>YU Xinge</u> , "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i> , 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a> . |
|                     | #LI Jian, #LIU Yiming, <u>WU Mengge</u> , #YAO Kuanming, #GAO Zhan, #GAO Yuyu, #HUANG Xingcan, #WONG Tsz Hung, #ZHOU Jingkun, <u>LI Dengfeng</u> , <u>LI Hu</u> , <u>LI Jiyu</u> , <u>HUANG Ya</u> , <u>SHI Rui</u> , <u>YU Junsheng</u> , <u>YU Xinge</u> , "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i> , 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a> .  |
|                     | <u>WU Mengge</u> , <u>SHI Rui</u> , #ZHOU Jingkun, #WONG Tsz Hung, #YAO Kuanming, #LI Jian, #HUANG Xingcan, <u>LI Dengfeng</u> , #GAO Yuyu, #LIU Yiming, <u>HOU Sihui</u> , <u>YU Junsheng</u> , <u>YU Xinge</u> , "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i> , 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a> .  |
|                     | #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, <u>PARK Wooyoung</u> , <u>ZHAO Zhao</u> , #YAO Kuanming, <u>LI Hu</u> , #JIA Huiling, #LI Jian, <u>LI Jiyu</u> , <u>HUANG Ya</u> , <u>WU Mengge</u> , ZHANG Binbin, <u>LI Dengfeng</u> , <u>ZHANG Chao</u> , <u>WANG Zuankai</u> , <u>YU Xinge</u> , "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile   |

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|                      | sensing", <i>Nano Energy</i> , 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a> .  |
| <b>GAO Zhan</b>      | <a href="#">LI Dengfeng</a> , <a href="#">#HE Jiahui</a> , SONG Zhen, <a href="#">#YAO Kuanming</a> , <a href="#">WU Mengge</a> , FU Haoran, <a href="#">#LIU Yiming</a> , <a href="#">#GAO Zhan</a> , <a href="#">#ZHOU Jingkun</a> , WEI Lei, ZHANG Zhengyou, DAI Yuan, XIE Zhaoqian, YU Xinge, "Miniaturization of mechanical actuators in skin-integrated electronics for haptic interfaces", <i>Microsystems and Nanoengineering</i> , 7, 22 October 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00301-x">https://doi.org/10.1038/s41378-021-00301-x</a> .   |
|                      | <a href="#">#HUANG Xingcan</a> , <a href="#">LI Hu</a> , <a href="#">LI Jiyu</a> , <a href="#">#HUANG Libei</a> , <a href="#">#YAO Kuanming</a> , <a href="#">#YIU Chun Ki</a> , <a href="#">#LIU Yiming</a> , <a href="#">#WONG Tsz Hung</a> , <a href="#">LI Dengfeng</a> , <a href="#">WU Mengge</a> , HUANG Ya, <a href="#">#GAO Zhan</a> , <a href="#">#ZHOU Jingkun</a> , <a href="#">#GAO Yuyu</a> , <a href="#">#LI Jian</a> , <a href="#">#JIAO Yanli</a> , <a href="#">SHI Rui</a> , ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, <a href="#">YE Ruquan</a> , <a href="#">YU Xinge</a> , "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i> , 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a> . |
|                      | <a href="#">#LI Jian</a> , <a href="#">#LIU Yiming</a> , <a href="#">WU Mengge</a> , <a href="#">#YAO Kuanming</a> , <a href="#">#GAO Zhan</a> , <a href="#">#GAO Yuyu</a> , <a href="#">#HUANG Xingcan</a> , <a href="#">#WONG Tsz Hung</a> , <a href="#">#ZHOU Jingkun</a> , <a href="#">LI Dengfeng</a> , <a href="#">LI Hu</a> , <a href="#">LI Jiyu</a> , <a href="#">HUANG Ya</a> , <a href="#">SHI Rui</a> , YU Junsheng, <a href="#">YU Xinge</a> , "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i> , 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a> .   |
|                      | <a href="#">#HUANG Xingcan</a> , <a href="#">#LIU Yiming</a> , <a href="#">#ZHOU Jingkun</a> , <a href="#">#KHAZAE NEJAD GHARAHEKAN Sina</a> , <a href="#">#WONG Tsz Hung</a> , <a href="#">HUANG Ya</a> , <a href="#">LI Hu</a> , <a href="#">#YIU Chun Ki</a> , <a href="#">PARK Wooyoung</a> , <a href="#">#LI Jian</a> , <a href="#">SU Jingyou</a> , <a href="#">#ZHAO Ling</a> , <a href="#">#YAO Kuanming</a> , <a href="#">WU Mengge</a> , <a href="#">#GAO Zhan</a> , <a href="#">LI Dengfeng</a> , <a href="#">LI Jiyu</a> , <a href="#">SHI Rui</a> , <a href="#">YU Xinge</a> , "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i> , 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a> .                                 |
|                      | CHEN Jianhua, HUANG Wei, ZHENG Ding, <a href="#">XIE Zhaoqian</a> , ZHUANG Xinming, ZHAO Dan, CHEN Yao, SU Ning, CHEN Hongming, PANKOW Robert M., <a href="#">#GAO Zhan</a> , YU Junsheng, GUO Xugang, CHENG Yuhua, STRZALKA Joseph, YU Xinge, MARKS Tobin J., FACCHETTI Antonio, "Highly stretchable organic electrochemical transistors with strain-resistant performance", <i>Nature Materials</i> , 21(5), 02 May 2022, pp 564-571, doi: <a href="https://doi.org/10.1038/s41563-022-01239-9">https://doi.org/10.1038/s41563-022-01239-9</a> .   |
| <b>GUAN Zhangyan</b> | CHEN Shuxun, <a href="#">#JIAO Yang</a> , <a href="#">PAN Fei</a> , <a href="#">#GUAN Zhangyan</a> , CHENG Shuk Han, <a href="#">SUN Dong</a> , "Knock-in of a Large Reporter Gene via the High-Throughput Microinjection of the CRISPR/Cas9 System", <i>IEEE Transactions on Biomedical Engineering</i> , 08 February 2022, doi: <a href="https://doi.org/10.1109/TBME.2022.3149530">https://doi.org/10.1109/TBME.2022.3149530</a> .  |
|                      | <a href="#">FAN Lei</a> , <a href="#">#GUAN Zhangyan</a> , <a href="#">LUO Tao</a> , <a href="#">REN Jifeng</a> , <a href="#">LAM Hiu Wai Raymond</a> , <a href="#">SUN Dong</a> , "High-throughput deterministic pairing and coculturing of single cells in a microwell array using combined hydrodynamic and recirculation flow captures", <i>Biomicrofluidics</i> , 15(5), September 2021, doi: <a href="https://doi.org/10.1063/5.0066668">https://doi.org/10.1063/5.0066668</a> .   |
| <b>GUO Dong</b>      | <a href="#">#YANG Liu</a> , <a href="#">#ZHANG Tieshan</a> , <a href="#">#TAN Rong</a> , <a href="#">#YANG Xiong</a> , <a href="#">#GUO Dong</a> , <a href="#">#FENG Yu</a> , <a href="#">#REN Hao</a> , <a href="#">#TANG Yifeng</a> , SHANG Wanfeng, <a href="#">SHEN Yajing</a> , "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/adv.202200342">https://doi.org/10.1002/adv.202200342</a> .  |
|                      | <a href="#">#GUO Dong</a> , <a href="#">#LI Gen</a> , <a href="#">#MIAO Jiaqi</a> , <a href="#">SHEN Yajing</a> , "A smartphone-based calibration-free portable urinalysis device", <i>Journal of Central South University</i> , 28(12), December 2021, pp 3829-3837, doi: <a href="https://doi.org/10.1007/s11771-021-4883-7">https://doi.org/10.1007/s11771-021-4883-7</a> .   |
| <b>GUO Haihua</b>    | <a href="#">#GUO Haihua</a> , LIU Jian, AHN Choon Ki, WU Yongbao, LI Wenxue, "Dynamic Event-Triggered Impulsive Control for Stochastic Nonlinear Systems With Extension in Complex Networks", <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 69(5), 14 January 2022, pp 2167-2178, doi: <a href="https://doi.org/10.1109/TCSI.2022.3141583">https://doi.org/10.1109/TCSI.2022.3141583</a> .  |
| <b>GUO Yige</b>      | <a href="#">#GUO Yige</a> , <a href="#">XU Xiang</a> , <a href="#">LIU Lu</a> , WANG Yong, <a href="#">FENG Gang Gary</a> , "New results on stability of discrete-time systems with infinite delays", <i>Automatica</i> , 136, 25 November 2021, doi: <a href="https://doi.org/10.1016/j.automatica.2021.110043">https://doi.org/10.1016/j.automatica.2021.110043</a> .  |

Section A: Publications of PhD Students

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|----------------------|--|
| <b>HAO Yahui</b>     | #HAO Yahui, LIU Lu, FENG Gang Gary, "Event-Triggered Cooperative Output Regulation of Heterogeneous Multiagent Systems Under Switching Directed Topologies", <i>IEEE Transactions on Cybernetics</i> , 26 August 2021, doi: <a href="https://doi.org/10.1109/TCYB.2021.3097337">https://doi.org/10.1109/TCYB.2021.3097337</a> .  |
| <b>HE Jiahui</b>     | LI Dengfeng, #HE Jiahui, SONG Zhen, #YAO Kuanming, WU Mengge, FU Haoran, #LIU Yiming, #GAO Zhan, #ZHOU Jingkun, WEI Lei, ZHANG Zhengyou, DAI Yuan, XIE Zhaoqian, YU Xinge, "Miniaturization of mechanical actuators in skin-integrated electronics for haptic interfaces", <i>Microsystems and Nanoengineering</i> , 7, 22 October 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00301-x">https://doi.org/10.1038/s41378-021-00301-x</a> .<br>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i> , 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a> .  |
| <b>HE Xingdao</b>    | DU Xincheng, XU Fang, QIAO Haowen, LIU Wenwen, #HE Xingdao, YAN Jiayu, QIN Xingping, OU Gaozhi, "Global Evolution of Skeletal Muscle Tissue Engineering: A Scientometric Research", <i>Tissue Engineering - Part C: Methods</i> , 27(9), 22 September 2021, pp 497-511, doi: <a href="https://doi.org/10.1089/ten.tec.2021.0156">https://doi.org/10.1089/ten.tec.2021.0156</a> .   |
| <b>HU Tianli</b>     | YANG Yating, XIA Lingling, NING Xiaoyu, #HU Tianli, XU Chenjie, LIU Wei, "Enhanced Drug Permeation into Human Keloid Tissues by Sonophoresis-Assisted Microneedling", <i>SLAS Technology</i> , 26(6), 03 July 2021, pp 660-666, doi: <a href="https://doi.org/10.1177/24726303211024568">https://doi.org/10.1177/24726303211024568</a> .   |
| <b>HU Xu</b>         | #HU Xu, JIANG Majiao, HONG Ying, RONG Xin, HUANG Kangkang, LIU Hao, PU Dan, WANG Beiyu, "Single-level cervical disc arthroplasty in the spine with reversible kyphosis: A finite element study", <i>JOR Spine</i> , 5(2), 08 February 2022, doi: <a href="https://doi.org/10.1002/jsp2.1194">https://doi.org/10.1002/jsp2.1194</a> .   |
| <b>HU Zhe</b>        | #YAN Youcan, #HU Zhe, SHEN Yajing, PAN Jia, "Surface Texture Recognition by Deep Learning-Enhanced Tactile Sensing", <i>Advanced Intelligent Systems</i> , 4(1), 21 August 2021, doi: <a href="https://doi.org/10.1002/aisy.202100076">https://doi.org/10.1002/aisy.202100076</a> .  |
| <b>HUANG Siping</b>  | LAU Cia Hin, #HUANG Siping, LAM Hiu Wai Raymond, TIN Chung, "PAM-flexible dual base editor-mediated random mutagenesis and self-activation strategies to improve CRISPRa potency", <i>Molecular Therapy - Methods and Clinical Development</i> , 26, 29 May 2022, pp 26-37, doi: <a href="https://doi.org/10.1016/j.omtm.2022.05.005">https://doi.org/10.1016/j.omtm.2022.05.005</a> .   |
| <b>HUANG Wei</b>     | REN Jifeng, #LIU Yi, #HUANG Wei, LAM Hiu Wai Raymond, "A Narrow Straight Microchannel Array for Analysis of Transiting Speed of Floating Cancer Cells", <i>Micromachines</i> , 13(2), 26 January 2022, doi: <a href="https://doi.org/10.3390/mi13020183">https://doi.org/10.3390/mi13020183</a> .<br>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i> , 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a> .<br>HU Shuhuan, #HUANG Wei, MENG Fanchao, LAM Hiu Wai Raymond, LAU Denvid, "Adhesion Strengthening Mechanism of Carbon Nanotube-Embedded Epoxy Composites: A Fracture-Based Approach", <i>ACS Applied Materials and Interfaces</i> , 14(5), 12 January 2022, pp 7221–7229, doi: <a href="https://doi.org/10.1021/acsami.1c20282">https://doi.org/10.1021/acsami.1c20282</a> . |
| <b>HUANG Xingcan</b> | PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i> , 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a> .<br>#HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel   |

Section A: Publications of PhD Students

|  |   |
|--|---|
|  | <p>Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p>  |
|  | <p>#WONG Tsz Hung, #LIU Yiming, #LI Jian, #YAO Kuanming, LIU Sitong, #YIU Chun Ki, #HUANG Xingcan, WU Mengge, PARK Wooyoung, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, LI Dengfeng, XIE Zhaoqian, YU Xinge, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i>, 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a>.</p>  |
|  | <p>#LI Jian, #LIU Yiming, WU Mengge, #YAO Kuanming, #GAO Zhan, #GAO Yuyu, #HUANG Xingcan, #WONG Tsz Hung, #ZHOU Jingkun, LI Dengfeng, LI Hu, LI Jiyu, HUANG Ya, SHI Rui, YU Junsheng, YU Xinge, "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i>, 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a>.</p>  |
|  | <p>WU Mengge, SHI Rui, #ZHOU Jingkun, #WONG Tsz Hung, #YAO Kuanming, #LI Jian, #HUANG Xingcan, LI Dengfeng, #GAO Yuyu, #LIU Yiming, HOU Sihui, YU Junsheng, YU Xinge, "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i>, 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a>.</p>  |
|  | <p>#YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p>   |
|  | <p>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>   |
|  | <p>#HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p>  |
|  | <p>#HUANG Xingcan, LI Jiyu, #LIU Yiming, #WONG Tsz Hung, SU Jingyou, #YAO Kuanming, #ZHOU Jingkun, HUANG Ya, LI Hu, LI Dengfeng, WU Mengge, SONG Enming, HAN Shijiao, YU Xinge, "Epidermal self-powered sweat sensors for glucose and lactate monitoring", <i>Bio-Design and Manufacturing</i>, 5(1), 19 July 2021, pp 201-209, doi: <a href="https://doi.org/10.1007/s42242-021-00156-1">https://doi.org/10.1007/s42242-021-00156-1</a>.</p>   |
|  | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a>.</p> |
|  | <p>LI Hu, CHANG Tianrui, GAI Yansong, LIANG Kui, #JIAO Yanli, LI Dengfeng, JIANG Xinran, WANG Yang, #HUANG Xingcan, WU Han, #LIU Yiming, LI Jian, BAI Yiming, GENG Kai, ZHANG Nianrong, MENG Hua, HUANG Dongsheng, LI Zhou, YU Xinge, CHANG Lingqian, "Human joint enabled flexible self-sustainable sweat sensors", <i>Nano Energy</i>, 92, 29 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106786">https://doi.org/10.1016/j.nanoen.2021.106786</a>.</p>  |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p>   |
|                     | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAEE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p>   |
| <b>HUO Yingxin</b>  | <p>#HUO Yingxin, LI Peng, CHEN Diancheng, LIU Yunhui, LI Xiang, "Model-Free Adaptive Impedance Control for Autonomous Robotic Sanding", <i>IEEE Transactions on Automation Science and Engineering</i>, 17 November 2021, doi: <a href="https://doi.org/10.1109/TASE.2021.3126743">https://doi.org/10.1109/TASE.2021.3126743</a>.</p>   |
| <b>Ji Nan</b>       | <p>XIANG Ting, #JI Nan, CLIFTON David A., LU Lei, ZHANG Yuanting, "Interactive Effects of HRV and P-QRS-T on the Power Density Spectra of ECG Signals", <i>IEEE Journal of Biomedical and Health Informatics</i>, 25(11), 06 August 2021, pp 4163-4174, doi: <a href="https://doi.org/10.1109/JBHI.2021.3100425">https://doi.org/10.1109/JBHI.2021.3100425</a>.</p>   |
| <b>Ji Xianglin</b>  | <p>#ZHAO Xi, #JI Xianglin, #QU Jin, XIE Kai, WANG Zixun, #FANG Peilin, #WANG Yuan, #WAN Youyang, YANG Yang, ZHANG Wenjun, SHI Peng, "Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs", <i>Journal of the American Chemical Society</i>, 144(13), 23 March 2022, pp 6010–6018, doi: <a href="https://doi.org/10.1021/jacs.2c01036">https://doi.org/10.1021/jacs.2c01036</a>.</p> <p>YI Zhigao, GAO Huxin, #JI Xianglin, YEO Xin-Yi, CHONG Suet Yen, MAO Yujie, LUO Baiwen, SHEN Chao, HAN Sanyang, WANG Jiong-Wei, JUNG Sangyong, SHI Peng, REN Hongliang, LIU Xiaogang, "Mapping Drug-Induced Neuropathy through In-Situ Motor Protein Tracking and Machine Learning", <i>Journal of the American Chemical Society</i>, 143(36), 01 September 2021, pp 14907–14915, doi: <a href="https://doi.org/10.1021/jacs.1c07312">https://doi.org/10.1021/jacs.1c07312</a>.</p>  |
| <b>JIA Huaiyuan</b> | <p>#JIA Huaiyuan, #BAI Songnan, #DING Runze, SHU Jing, #DENG Yanlin, KHOO Bee Luan, CHIRARATTANANON Pakpong, "A Quadrotor with a Passively Reconfigurable Airframe for Hybrid Terrestrial Locomotion", <i>IEEE/ASME Transactions on Mechatronics</i>, 22 April 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3164929">https://doi.org/10.1109/TMECH.2022.3164929</a>.</p> <p>#DING Runze, HSIAO Yi Hsuan, #JIA Huaiyuan, #BAI Songnan, CHIRARATTANANON Pakpong, "Passive Wall Tracking for a Rotorcraft with Tilted and Ducted Propellers using Proximity Effects", <i>IEEE Robotics and Automation Letters</i>, 7(2), 06 January 2022, pp 1581-1588, doi: <a href="https://doi.org/10.1109/LRA.2022.3140821">https://doi.org/10.1109/LRA.2022.3140821</a>.</p>  |
| <b>JIA Huiling</b>  | <p>HUANG Ya, #YAO Kuanming, LI Jiyu, LI Dengfeng, #JIA Huiling, #LIU Yiming, #YIU Chun Ki, PARK Wooyoung, YU Xinge, "Recent advances in multi-mode haptic feedback technologies towards wearable interfaces", <i>Materials Today Physics</i>, 22, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100602">https://doi.org/10.1016/j.mtphys.2021.100602</a>.</p> <p>#YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p> <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p> |

Section A: Publications of PhD Students

|                                     |  |
|-------------------------------------|--|
| <b>JIA Yuanjun</b>                  | #JIA Yuanjun, #ZHENG Liushuai, #DONG Dingran, WANG Yong, SUN Dong, "Robust Navigation Control of a Microrobot With Hysteresis Compensation", <i>IEEE Transactions on Automation Science and Engineering</i> , 30 August 2021, doi: <a href="https://doi.org/10.1109/TASE.2021.3106022">https://doi.org/10.1109/TASE.2021.3106022</a> .   |
|                                     | #DONG Dingran, #XING Liuxi, #ZHENG Liushuai, #JIA Yuanjun, SUN Dong, "Automated 3-D Electromagnetic Manipulation of Microrobot With a Path Planner and a Cascaded Controller", <i>IEEE Transactions on Control Systems Technology</i> , 28 December 2021, doi: <a href="https://doi.org/10.1109/TCST.2021.3135895">https://doi.org/10.1109/TCST.2021.3135895</a> .   |
|                                     | #ZHENG Liushuai, #JIA Yuanjun, #DONG Dingran, #LAM Wah Shing, LI Dongfang, JI Haibo, SUN Dong, "3D Navigation Control of Untethered Magnetic Microrobot in Centimeter-Scale Workspace Based on Field-of-View Tracking Scheme", <i>IEEE Transactions on Robotics</i> , 22 November 2021, doi: <a href="https://doi.org/10.1109/TRO.2021.3118205">https://doi.org/10.1109/TRO.2021.3118205</a> .   |
| <b>JIANG Tianyi</b>                 | #WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, CHOW Hiu Lam, LI Iris Wai-Sum, CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i> , 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a> .   |
|                                     | #WU Hao, REN Yukun, #JIANG Tianyi, WU Wenlong, LU Yang, JIANG Hongyuan, "Fabrication of syntactic foam fillers via integrated on/off-chip microfluidic methods for optimized geopolymers composites", <i>Lab on a Chip</i> , 22(4), 21 January 2022, pp 836-847, doi: <a href="https://doi.org/10.1039/d1lc00901j">https://doi.org/10.1039/d1lc00901j</a> .  |
| <b>JIAO Yang</b>                    | CHEN Shuxun, #JIAO Yang, PAN Fei, #GUAN Zhangyan, CHENG Shuk Han, SUN Dong, "Knock-in of a Large Reporter Gene via the High-Throughput Microinjection of the CRISPR/Cas9 System", <i>IEEE Transactions on Biomedical Engineering</i> , 08 February 2022, doi: <a href="https://doi.org/10.1109/TBME.2022.3149530">https://doi.org/10.1109/TBME.2022.3149530</a> .  |
| <b>JIAO Yanli</b>                   | PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i> , 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a> .   |
|                                     | #HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i> , 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a> . |
|                                     | LI Hu, CHANG Tianrui, GAI Yansong, LIANG Kui, #JIAO Yanli, LI Dengfeng, JIANG Xinran, WANG Yang, #HUANG Xingcan, WU Han, #LIU Yiming, LI Jian, BAI Yiming, GENG Kai, ZHANG Nianrong, MENG Hua, HUANG Dongsheng, LI Zhou, YU Xinge, CHANG Lingqian, "Human joint enabled flexible self-sustainable sweat sensors", <i>Nano Energy</i> , 92, 29 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106786">https://doi.org/10.1016/j.nanoen.2021.106786</a> .  |
| <b>JIN Min</b>                      | #JIN Min, SHI Junli, ZHU Wenzhen, YAO Hang, WANG Dongan, "Polysaccharide-Based Biomaterials in Tissue Engineering: A Review", <i>Tissue Engineering Part B: Reviews</i> , 27(6), December 2021, pp 604-626, doi: <a href="https://doi.org/10.1089/ten.teb.2020.0208">https://doi.org/10.1089/ten.teb.2020.0208</a> .   |
|                                     | TAO Chao, #JIN Min, YAO Hang, WANG Dongan, "Dopamine based adhesive nano-coatings on extracellular matrix (ECM) based grafts for enhanced host-graft interfacing affinity", <i>Nanoscale</i> , 13(43), 26 October 2021, pp 18148-18159, doi: <a href="https://doi.org/10.1039/d1nr06284k">https://doi.org/10.1039/d1nr06284k</a> .   |
| <b>KHAZAE NEJAD GHARAHEKAN Sina</b> | #WONG Tsz Hung, #LIU Yiming, #LI Jian, #YAO Kuanming, LIU Sitong, #YIU Chun Ki, #HUANG Xingcan, WU Mengge, PARK Wooyoung, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, LI Dengfeng, XIE Zhaoqian, YU Xinge, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i> , 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a> .  |



Section A: Publications of PhD Students

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|--------------------------|---|
|                          | <p>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>   |
|                          | <p>#HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p>  |
|                          | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a>.</p> |
|                          | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p>  |
| <b>KWONG Hoi Kwan</b>    | <p>#WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, CHOW Hiu Lam, LI Iris Wai-Sum, CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i>, 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a>.</p>   |
| <b>LAI Ho Chi Joseph</b> | <p>HUANG Jianpan, #LAI Ho Chi Joseph, HAN Xiongqi, #CHEN Zilin, #XIAO Peng, #LIU Yang, CHEN Lin, XU Jiadi, CHAN Wai Yan Kannie, "Sensitivity schemes for dynamic glucose-enhanced magnetic resonance imaging to detect glucose uptake and clearance in mouse brain at 3 T", <i>NMR in Biomedicine</i>, 35(3), 08 November 2021, doi: <a href="https://doi.org/10.1002/nbm.4640">https://doi.org/10.1002/nbm.4640</a>.</p>   |
|                          | <p>HUANG Jianpan, XU Jiadi, #LAI Ho Chi Joseph, #CHEN Zilin, LEE Chi Yan, MAK Henry K.F., CHAN Koon Ho, CHAN Wai Yan Kannie, "Relayed nuclear Overhauser effect weighted (rNOEw) imaging identifies multiple sclerosis", <i>NeuroImage: Clinical</i>, 32, 28 October 2021, doi: <a href="https://doi.org/10.1016/j.nicl.2021.102867">https://doi.org/10.1016/j.nicl.2021.102867</a>.</p>  |
|                          | <p>HUANG Jianpan, #LAI Ho Chi Joseph, TSE Kai-hei, CHENG Gerald W. Y., #LIU Yang, #CHEN Zilin, HAN Xiongqi, CHEN Lin, XU Jiadi, CHAN Wai Yan Kannie, "Deep neural network based CEST and AREX processing: Application in imaging a model of Alzheimer's disease at 3 T", <i>Magnetic Resonance in Medicine</i>, 87(3), 17 October 2021, pp 1529-1545, doi: <a href="https://doi.org/10.1002/mrm.29044">https://doi.org/10.1002/mrm.29044</a>.</p>   |
|                          | <p>HUANG Jianpan, #CHEN Zilin, #PARK Se Weon, #LAI Ho Chi Joseph, CHAN Wai Yan Kannie, "Molecular Imaging of Brain Tumors and Drug Delivery Using CEST MRI: Promises and Challenges", <i>Pharmaceutics</i>, 14(2), 20 February 2022, doi: <a href="https://doi.org/10.3390/pharmaceutics14020451">https://doi.org/10.3390/pharmaceutics14020451</a>.</p>  |
| <b>LAM Wah Shing</b>     | <p>#ZHENG Liushuai, #JIA Yuanjun, #DONG Dingran, #LAM Wah Shing, LI Dongfang, JI Haibo, SUN Dong, "3D Navigation Control of Untethered Magnetic Microrobot in Centimeter-Scale Workspace Based on Field-of-View Tracking Scheme", <i>IEEE Transactions on Robotics</i>, 22 November 2021, doi: <a href="https://doi.org/10.1109/TRO.2021.3118205">https://doi.org/10.1109/TRO.2021.3118205</a>.</p>   |
| <b>LI Gen</b>            | <p>#MIAO Jiaqi, #ZHANG Tieshan, #LI Gen, SHANG Wanfeng, SHEN Yajing, "Magnetic Artificial Cilia Carpets for Transport, Mixing, and Directional Diffusion", <i>Advanced Engineering Materials</i>, 24(7), 24 November 2021, doi: <a href="https://doi.org/10.1002/adem.202101399">https://doi.org/10.1002/adem.202101399</a>.</p>  |

Section A: Publications of PhD Students

|         |  |
|---------|--|
|         | #GUO Dong, #LI Gen, #MIAO Jiaqi, SHEN Yajing, "A smartphone-based calibration-free portable urinalysis device", <i>Journal of Central South University</i> , 28(12), December 2021, pp 3829-3837, doi: <a href="https://doi.org/10.1007/s11771-021-4883-7">https://doi.org/10.1007/s11771-021-4883-7</a> .   |
| LI Jian | PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i> , 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a> .   |
|         | #HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i> , 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a> . |
|         | #WONG Tsz Hung, #LIU Yiming, #LI Jian, #YAO Kuanming, LIU Sitong, #YIU Chun Ki, #HUANG Xingcan, WU Mengge, PARK Wooyoung, #ZHOU Jingkun, #KHAZAEE NEJAD GHARAHEKAN Sina, LI Hu, LI Dengfeng, XIE Zhaoqian, YU Xinge, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i> , 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a> .   |
|         | #LI Jian, #LIU Yiming, WU Mengge, #YAO Kuanming, #GAO Zhan, #GAO Yuyu, #HUANG Xingcan, #WONG Tsz Hung, #ZHOU Jingkun, LI Dengfeng, LI Hu, LI Jiyu, HUANG Ya, SHI Rui, YU Junsheng, YU Xinge, "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i> , 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a> .  |
|         | WU Mengge, SHI Rui, #ZHOU Jingkun, #WONG Tsz Hung, #YAO Kuanming, #LI Jian, #HUANG Xingcan, LI Dengfeng, #GAO Yuyu, #LIU Yiming, HOU Sihui, YU Junsheng, YU Xinge, "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i> , 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a> .  |
|         | #YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i> , 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a> .   |
|         | #HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAEE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i> , 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a> .   |
|         | #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i> , 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a> .     |
|         | #LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAEE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i> , 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a> .   |

## Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
| <b>LI Min</b>       | #ZHANG Qi, #LI Min, HU Wenbo, WANG Xin, HU Jinlian, "Spidroin-Based Biomaterials in Tissue Engineering: General Approaches and Potential Stem Cell Therapies", <i>Stem Cells International</i> , 2021, 20 December 2021, doi: <a href="https://doi.org/10.1155/2021/7141550">https://doi.org/10.1155/2021/7141550</a> .  |
| <b>LI Wei</b>       | #LI Wei, ZHOU Yunlan, #DENG Yanlin, KHOO Bee Luan, "Early Predictor Tool of Disease Using Label-Free Liquid Biopsy-Based Platforms for Patient-Centric Healthcare", <i>Cancers</i> , 14(3), 06 February 2022, doi: <a href="https://doi.org/10.3390/cancers14030818">https://doi.org/10.3390/cancers14030818</a> .   |
| <b>LI Xiaoting</b>  | #LI Xiaoting, KOH Keng Huat, #XUE Jiaqi, SO Chun Ho, XIAO Na, TIN Chung, LAI Wai Chiu King, "1D-2D nanohybrid-based textile strain sensor to boost multiscale deformative motion sensing performance", <i>Nano Research</i> , 04 June 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4413-4">https://doi.org/10.1007/s12274-022-4413-4</a> .   |
| <b>LI Yanfang</b>   | LI Junyang, FAN Lei, #LI Yanfang, WEI Tanyong, WANG Cheng, LI Feng, TIAN Hua, SUN Dong, "Development of cell-carrying magnetic microrobots with bioactive nanostructured titanate surface for enhanced cell adhesion", <i>Micromachines</i> , 12(12), 17 December 2021, doi: <a href="https://doi.org/10.3390/mi12121572">https://doi.org/10.3390/mi12121572</a> .   |
| <b>LIANG Siyi</b>   | #LIANG Siyi, WANG Lidai, "A spatial compounding method for non-delayed sequential beamforming", <i>Applied Sciences (Switzerland)</i> , 11(19), 02 October 2021, doi: <a href="https://doi.org/10.3390/app11199200">https://doi.org/10.3390/app11199200</a> .  |
|                     | #LIANG Siyi, WANG Lidai, "Fourier Beamformation for Convex-array Diverging Wave Imaging Using Virtual Sources", <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 69(5), 11 March 2022, pp 1625-1637, doi: <a href="https://doi.org/10.1109/TUFFC.2022.3158930">https://doi.org/10.1109/TUFFC.2022.3158930</a> .  |
| <b>LIAO Junchen</b> | #HONG Ying, JIN Lihan, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, LEE Youngjin, KHOO Bee Luan, YANG Zhengbao, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i> , 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a> . |
| <b>LIU Bangheng</b> | #LIU Bangheng, TAO Chao, WU Zhonglian, YAO Hang, WANG Dongan, "Engineering strategies to achieve efficient <i>in vitro</i> expansion of haematopoietic stem cells: development and improvement", <i>Journal of Materials Chemistry B</i> , 10(11), 21 February 2022, pp 1734-1753, doi: <a href="https://doi.org/10.1039/d1tb02706a">https://doi.org/10.1039/d1tb02706a</a> .  |
| <b>LIU Gan</b>      | FU Zhiqiang, CHEN Jialong, #LIU Gan, CHEN Shih-Chi, "Single-shot optical sectioning microscopy based on structured illumination", <i>Optics Letters</i> , 47(4), 03 February 2022, pp 814-817, doi: <a href="https://doi.org/10.1364/OL.451267">https://doi.org/10.1364/OL.451267</a> .  |
|                     | ZHANG Junhui, HUANG Hsinpu, #LIU Gan, ZONG Huaizhi, ZHANG Chao, "Stiffness and energy absorption of additive manufactured hybrid lattice structures", <i>Virtual and Physical Prototyping</i> , 27 July 2021, doi: <a href="https://doi.org/10.1080/17452759.2021.1954405">https://doi.org/10.1080/17452759.2021.1954405</a> .   |
| <b>LIU Wengang</b>  | #WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, CHOW Hiu Lam, LI Iris Wai-Sum, CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i> , 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a> .   |
| <b>LIU Yang</b>     | HUANG Jianpan, #LAI Ho Chi Joseph, HAN Xiongqi, #CHEN Zilin, #XIAO Peng, #LIU Yang, CHEN Lin, XU Jiadi, CHAN Wai Yan Kannie, "Sensitivity schemes for dynamic glucose-enhanced magnetic resonance imaging to detect glucose uptake and clearance in mouse brain at 3 T", <i>NMR in Biomedicine</i> , 35(3), 08 November 2021, doi: <a href="https://doi.org/10.1002/nbm.4640">https://doi.org/10.1002/nbm.4640</a> .   |
| <b>LIU Yi</b>       | REN Jifeng, #LIU Yi, #HUANG Wei, LAM Hiu Wai Raymond, "A Narrow Straight Microchannel Array for Analysis of Transiting Speed of Floating Cancer Cells", <i>Micromachines</i> , 13(2), 26 January 2022, doi: <a href="https://doi.org/10.3390/mi13020183">https://doi.org/10.3390/mi13020183</a> .  |
| <b>LIU Yiming</b>   | PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i> , 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a> .                       |

Section A: Publications of PhD Students

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|  | <p><u>HUANG Ya</u>, #<u>YAO Kuanming</u>, <u>LI Jiyu</u>, <u>LI Dengfeng</u>, #<u>JIA Huiling</u>, #<u>LIU Yiming</u>, #<u>YIU Chun Ki</u>, <u>PARK Wooyoung</u>, <u>YU Xinge</u>, "Recent advances in multi-mode haptic feedback technologies towards wearable interfaces", <i>Materials Today Physics</i>, 22, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100602">https://doi.org/10.1016/j.mtphys.2021.100602</a>.</p>   |
|  | <p><u>LI Dengfeng</u>, #<u>HE Jiahui</u>, <u>SONG Zhen</u>, #<u>YAO Kuanming</u>, <u>WU Mengge</u>, <u>FU Haoran</u>, #<u>LIU Yiming</u>, #<u>GAO Zhan</u>, #<u>ZHOU Jingkun</u>, <u>WEI Lei</u>, <u>ZHANG Zhengyou</u>, <u>DAI Yuan</u>, <u>XIE Zhaoqian</u>, <u>YU Xinge</u>, "Miniaturization of mechanical actuators in skin-integrated electronics for haptic interfaces", <i>Microsystems and Nanoengineering</i>, 7, 22 October 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00301-x">https://doi.org/10.1038/s41378-021-00301-x</a>.</p>   |
|  | <p>#<u>WONG Tsz Hung</u>, #<u>LIU Yiming</u>, #<u>LI Jian</u>, #<u>YAO Kuanming</u>, <u>LIU Sitong</u>, #<u>YIU Chun Ki</u>, #<u>HUANG Xingcan</u>, <u>WU Mengge</u>, <u>PARK Wooyoung</u>, #<u>ZHOU Jingkun</u>, #<u>KHAZAE NEJAD GHARAHEKAN Sina</u>, <u>LI Hu</u>, <u>LI Dengfeng</u>, <u>XIE Zhaoqian</u>, <u>YU Xinge</u>, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i>, 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a>.</p>  |
|  | <p>#<u>HUANG Xingcan</u>, <u>LI Hu</u>, <u>LI Jiyu</u>, #<u>HUANG Libei</u>, #<u>YAO Kuanming</u>, #<u>YIU Chun Ki</u>, #<u>LIU Yiming</u>, #<u>WONG Tsz Hung</u>, <u>LI Dengfeng</u>, <u>WU Mengge</u>, <u>HUANG Ya</u>, #<u>GAO Zhan</u>, #<u>ZHOU Jingkun</u>, #<u>GAO Yuyu</u>, #<u>LI Jian</u>, #<u>JIAO Yanli</u>, <u>SHI Rui</u>, <u>ZHANG Binbin</u>, <u>HU Bofan</u>, <u>GUO Qinglei</u>, <u>SONG Enming</u>, <u>YE Ruquan</u>, <u>YU Xinge</u>, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p> |
|  | <p>#<u>LI Jian</u>, #<u>LIU Yiming</u>, <u>WU Mengge</u>, #<u>YAO Kuanming</u>, #<u>GAO Zhan</u>, #<u>GAO Yuyu</u>, #<u>HUANG Xingcan</u>, #<u>WONG Tsz Hung</u>, #<u>ZHOU Jingkun</u>, <u>LI Dengfeng</u>, <u>LI Hu</u>, <u>LI Jiyu</u>, <u>HUANG Ya</u>, <u>SHI Rui</u>, <u>YU Junsheng</u>, <u>YU Xinge</u>, "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i>, 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a>.</p>   |
|  | <p><u>WU Mengge</u>, <u>SHI Rui</u>, #<u>ZHOU Jingkun</u>, #<u>WONG Tsz Hung</u>, #<u>YAO Kuanming</u>, #<u>LI Jian</u>, #<u>HUANG Xingcan</u>, <u>LI Dengfeng</u>, #<u>GAO Yuyu</u>, #<u>LIU Yiming</u>, <u>HOU Sihui</u>, <u>YU Junsheng</u>, <u>YU Xinge</u>, "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i>, 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a>.</p>  |
|  | <p>#<u>YIU Chun Ki</u>, #<u>LIU Yiming</u>, <u>ZHANG Chao</u>, #<u>ZHOU Jingkun</u>, #<u>JIA Huiling</u>, #<u>WONG Tsz Hung</u>, #<u>HUANG Xingcan</u>, #<u>LI Jian</u>, #<u>YAO Kuanming</u>, <u>YAU Ming Kei</u>, #<u>ZHAO Ling</u>, <u>LI Hu</u>, <u>ZHANG Binbin</u>, <u>PARK Wooyoung</u>, <u>ZHANG Yuanting</u>, <u>WANG Zuankai</u>, <u>YU Xinge</u>, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p>   |
|  | <p>#<u>LIU Yiming</u>, #<u>YIU Chun Ki</u>, <u>SONG Zhen</u>, <u>HUANG Ya</u>, #<u>YAO Kuanming</u>, #<u>WONG Tsz Hung</u>, #<u>ZHOU Jingkun</u>, #<u>ZHAO Ling</u>, #<u>HUANG Xingcan</u>, #<u>KHAZAE NEJAD GHARAHEKAN Sina</u>, <u>WU Mengge</u>, <u>LI Dengfeng</u>, #<u>HE Jiahui</u>, <u>GUO Xu</u>, <u>YU Junsheng</u>, <u>FENG Xue</u>, <u>XIE Zhaoqian</u>, <u>YU Xinge</u>, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>  |
|  | <p>#<u>HUANG Xingcan</u>, #<u>LIU Yiming</u>, #<u>ZHOU Jingkun</u>, #<u>KHAZAE NEJAD GHARAHEKAN Sina</u>, #<u>WONG Tsz Hung</u>, <u>HUANG Ya</u>, <u>LI Hu</u>, #<u>YIU Chun Ki</u>, <u>PARK Wooyoung</u>, #<u>LI Jian</u>, <u>SU Jingyou</u>, #<u>ZHAO Ling</u>, #<u>YAO Kuanming</u>, <u>WU Mengge</u>, #<u>GAO Zhan</u>, <u>LI Dengfeng</u>, <u>LI Jiyu</u>, <u>SHI Rui</u>, <u>YU Xinge</u>, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p>  |
|  | <p>#<u>HUANG Xingcan</u>, <u>LI Jiyu</u>, #<u>LIU Yiming</u>, #<u>WONG Tsz Hung</u>, <u>SU Jingyou</u>, #<u>YAO Kuanming</u>, #<u>ZHOU Jingkun</u>, <u>HUANG Ya</u>, <u>LI Hu</u>, <u>LI Dengfeng</u>, <u>WU Mengge</u>, <u>SONG Enming</u>, <u>HAN Shijiao</u>, <u>YU Xinge</u>, "Epidermal self-powered sweat sensors for glucose and lactate monitoring", <i>Bio-Design and Manufacturing</i>, 5(1), 19 July 2021, pp 201-209, doi: <a href="https://doi.org/10.1007/s42242-021-00156-1">https://doi.org/10.1007/s42242-021-00156-1</a>.</p>  |

Section A: Publications of PhD Students

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|              | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a>.</p> <p>LI Hu, CHANG Tianrui, GAI Yansong, LIANG Kui, #JIAO Yanli, LI Dengfeng, JIANG Xinran, WANG Yang, #HUANG Xingcan, WU Han, #LIU Yiming, LI Jian, BAI Yiming, GENG Kai, ZHANG Nianrong, MENG Hua, HUANG Dongsheng, LI Zhou, YU Xinge, CHANG Lingqian, "Human joint enabled flexible self-sustainable sweat sensors", <i>Nano Energy</i>, 92, 29 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106786">https://doi.org/10.1016/j.nanoen.2021.106786</a>.</p> <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p> <p>WU Shengfan, #LI Zhen, ZHANG Jie, #WU Xin, #DENG Xiang, #LIU Yiming, #ZHOU Jingkun, ZHI Chunyi, YU Xinge, CHOY Wallace C.H., ZHU Zonglong, JEN Alex, "Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells", <i>Advanced Materials</i>, 33(51), 03 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105539">https://doi.org/10.1002/adma.202105539</a>.</p> <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p> <p>#WONG Tsz Hung, #YIU Chun Ki, #ZHOU Jingkun, SONG Zhen, #LIU Yiming, #ZHAO Ling, #YAO Kuanming, PARK Wooyoung, SONG Enming, XIE Zhaoqian, YU Xinge, #YOO Woojung, "Tattoo-like epidermal electronics as skin sensors for human machine interfaces", <i>Soft Science</i>, 1(2), 23 September 2021, doi: <a href="https://doi.org/10.20517/ss.2021.09">https://doi.org/10.20517/ss.2021.09</a>.</p> <p>GAO Lin, #LIU Yiming, WANG Zijun, HE Yi, WANG Peiwen, LI Ying, LI Lu, YU Xinge, YU Junsheng, "High-Mechanical-Resolution Pressure Sensor Based on Melt-Blown Fibers in Integrated Wearable Mask for Respiratory Monitoring", <i>IEEE Transactions on Electron Devices</i>, 68(11), 22 September 2021, pp 5765-5772, doi: <a href="https://doi.org/10.1109/TED.2021.3111845">https://doi.org/10.1109/TED.2021.3111845</a>.</p> |
| LIU Zhen     | <p>CHEN Bing, #GUO Yang, #WANG Yuan, #LIU Zhen, WEI Qi, #WANG Shixun, ROGACH Andrey, XING Guichuan, SHI Peng, WANG Feng, "Multiexcitonic Emission in Zero-Dimensional Cs<sub>2</sub>ZrCl<sub>6</sub>:Sb<sup>3+</sup>Perovskite Crystals", <i>Journal of the American Chemical Society</i>, 143(42), 13 October 2021, pp 17599–17606, doi: <a href="https://doi.org/10.1021/jacs.1c07537">https://doi.org/10.1021/jacs.1c07537</a>.</p>   |
| LUO Shuyang  | <p>#LUO Shuyang, XU Xiang, LIU Lu, FENG Gang Gary, "Leader-Following Consensus of Heterogeneous Linear Multiagent Systems With Communication Time-Delays via Adaptive Distributed Observers", <i>IEEE Transactions on Cybernetics</i>, 12 October 2021, doi: <a href="https://doi.org/10.1109/TCYB.2021.3115124">https://doi.org/10.1109/TCYB.2021.3115124</a>.</p>  |
| LUO Xuan     | <p>TANG Minghui, DUAN Xin, YANG Anqi, HE Shijie, ZHOU Yajing, LIU Yuxin, ZHANG Lu, #LUO Xuan, SHI Peng, LI Honglin, LIN Xudong, "Fish Capsules: A System for High-Throughput Screening of Combinatorial Drugs", <i>Advanced Science</i>, 9(9), 27 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104449">https://doi.org/10.1002/advs.202104449</a>.</p>  |
| PARK Se Weon | <p>HUANG Jianpan, #CHEN Zilin, #PARK Se Weon, #LAI Ho Chi Joseph, CHAN Wai Yan Kannie, "Molecular Imaging of Brain Tumors and Drug Delivery Using CEST MRI: Promises and Challenges", <i>Pharmaceutics</i>, 14(2), 20 February 2022, doi: <a href="https://doi.org/10.3390/pharmaceutics14020451">https://doi.org/10.3390/pharmaceutics14020451</a>.</p>   |

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| <b>QU Jin</b>      | #ZHAO Xi, #JI Xianglin, #QU Jin, XIE Kai, WANG Zixun, #FANG Peilin, #WANG Yuan, #WAN Youyang, YANG Yang, ZHANG Wenjun, SHI Peng, "Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs", <i>Journal of the American Chemical Society</i> , 144(13), 23 March 2022, pp 6010–6018, doi: <a href="https://doi.org/10.1021/jacs.2c01036">https://doi.org/10.1021/jacs.2c01036</a> .                      |
| <b>QU Zheng</b>    | #QU Zheng, LIU Chao, #ZHU Jingyi, ZHANG Yachao, ZHOU Yingying, WANG Lidai, "Two-step proximal gradient descent algorithm for photoacoustic signal unmixing", <i>Photoacoustics</i> , 27, 09 June 2022, doi: <a href="https://doi.org/10.1016/j.pacs.2022.100379">https://doi.org/10.1016/j.pacs.2022.100379</a> .  |
| <b>REN Hao</b>     | #YANG Liu, #ZHANG Tieshan, #TAN Rong, #YANG Xiong, #GUO Dong, #FENG Yu, #REN Hao, #TANG Yifeng, SHANG Wanfeng, SHEN Yajing, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200342">https://doi.org/10.1002/advs.202200342</a> .   |
| <b>SHI Shuo</b>    | #SHI Shuo, SI Yifan, HAN Yanting, WU Ting, IQBAL Mohammad Irfan, FEI Bin, LI Kwok Yiu Robert, HU Jinlian, QU Jinping, "Recent Progress in Protective Membranes Fabricated via Electrospinning: Advanced Materials, Biomimetic Structures, and Functional Applications", <i>Advanced Materials</i> , 30 December 2021, doi: <a href="https://doi.org/10.1002/adma.202107938">https://doi.org/10.1002/adma.202107938</a> . |
|                    | ZHAO Hongran, #SHI Shuo, DING Jiheng, ZHOU Min, LIU Panlin, GENG Lihong, IQBAL Mohammad Irfan, YU Haibin, "Sequentially Bridged Graphene Sheets for High-Performance Anticorrosion", <i>Advanced Materials Interfaces</i> , 8(15), 11 July 2021, doi: <a href="https://doi.org/10.1002/admi.202100452">https://doi.org/10.1002/admi.202100452</a> .  |
|                    | #SHI Shuo, CUI Miao, SUN Fengxin, ZHU Kunkun, IQBAL Mohammad Irfan, CHEN Xiaoyu, FEI Bin, LI Kwok Yiu Robert, XIA Qingyou, HU Jinlian, "An Innovative Solvent-Responsive Coiling–Expanding Stent", <i>Advanced Materials</i> , 33(32), 04 July 2021, doi: <a href="https://doi.org/10.1002/adma.202101005">https://doi.org/10.1002/adma.202101005</a> .  |
| <b>SUN Jiayu</b>   | SHAKOOR Adnan, WANG Bin, FAN Lei, KONG Lingchi, GAO Wendi, #SUN Jiayu, MAN Kwan, LI Gang, SUN Dong, "Automated Optical Tweezers Manipulation to Transfer Mitochondria from Fetal to Adult MSCs to Improve Antiaging Gene Expressions", <i>Small</i> , 17(38), 19 August 2021, doi: <a href="https://doi.org/10.1002/smll.202103086">https://doi.org/10.1002/smll.202103086</a> .   |
| <b>SUN Kang</b>    | #SUN Kang, TAO Chao, WANG Dongan, "Scaffold-free approaches for the fabrication of engineered articular cartilage tissue", <i>Biomedical Materials (Bristol)</i> , 17(2), 16 February 2022, doi: <a href="https://doi.org/10.1088/1748-605X/ac51b9">https://doi.org/10.1088/1748-605X/ac51b9</a> .   |
| <b>TAN Renjie</b>  | SI Yifan, GUO Chunxia, #XU Xiaoyun, #ZHANG Ke, #TAN Renjie, LAU Kin-Tak, HU Jinlian, "Bioinspired Janus All-Natural Electrospinning Membranes with Directional Water Transport as Ecofriendly Dry Facial Masks", <i>ACS Sustainable Chemistry and Engineering</i> , 10(23), 30 May 2022, pp 7726–7738, doi: <a href="https://doi.org/10.1021/acssuschemeng.2c02094">https://doi.org/10.1021/acssuschemeng.2c02094</a> .  |
| <b>TAN Rong</b>    | #YANG Liu, #ZHANG Tieshan, #TAN Rong, #YANG Xiong, #GUO Dong, #FENG Yu, #REN Hao, #TANG Yifeng, SHANG Wanfeng, SHEN Yajing, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200342">https://doi.org/10.1002/advs.202200342</a> .   |
|                    | #TAN Rong, #YANG Xiong, LU Haojian, #YANG Liu, #ZHANG Tieshan, #MIAO Jiaqi, #FENG Yu, SHEN Yajing, "Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions", <i>Matter</i> , 5(4), 25 February 2022, pp 1277-1295, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.023">https://doi.org/10.1016/j.matt.2022.01.023</a> .                                      |
|                    | #YANG Xiong, #TAN Rong, LU Haojian, SHEN Yajing, "Magnetic-Directed Manipulation and Assembly of Fragile Bioartificial Architectures in the Liquid–Liquid Interface", <i>IEEE/ASME Transactions on Mechatronics</i> , 06 January 2022, doi: <a href="https://doi.org/10.1109/TMECH.2021.3136639">https://doi.org/10.1109/TMECH.2021.3136639</a> .  |
| <b>TANG Yifeng</b> | #YANG Liu, #ZHANG Tieshan, #TAN Rong, #YANG Xiong, #GUO Dong, #FENG Yu, #REN Hao, #TANG Yifeng, SHANG Wanfeng, SHEN Yajing, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200342">https://doi.org/10.1002/advs.202200342</a> .   |

Section A: Publications of PhD Students

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| <b>WAN Youyang</b> | #ZHAO Xi, #JI Xianglin, #QU Jin, XIE Kai, WANG Zixun, #FANG Peilin, #WANG Yuan, #WAN Youyang, YANG Yang, ZHANG Wenjun, SHI Peng, "Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs", <i>Journal of the American Chemical Society</i> , 144(13), 23 March 2022, pp 6010–6018, doi: <a href="https://doi.org/10.1021/jacs.2c01036">https://doi.org/10.1021/jacs.2c01036</a> .  |
| <b>WANG Cong</b>   | GU Lin, JIANG Yuanzhang, CHOW Larry M. C., LIU Zhen, GAO Wei, HAN Yanting, #WANG Cong, HU Jinlian, "Mechanical characterization of spider silk inspired peptide-containing hybrids", <i>Materials &amp; Design</i> , 219, 20 May 2022, doi: <a href="https://doi.org/10.1016/j.matdes.2022.110761">https://doi.org/10.1016/j.matdes.2022.110761</a> .  |
| <b>WANG Gaobo</b>  | #WU Siying, #WU Minghui, #WANG Gaobo, CHEN Ting Hsuan, "Visual quantitation of silver contamination in fresh water via accumulative length of microparticles in capillary-driven microfluidic devices", <i>Talanta</i> , 235, 12 July 2021, doi: <a href="https://doi.org/10.1016/j.talanta.2021.122707">https://doi.org/10.1016/j.talanta.2021.122707</a> .<br>#WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, CHOW Hiu Lam, LI Iris Wai-Sum, CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i> , 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a> .   |
| <b>WANG Xinrui</b> | #WANG Xinrui, LING Zhenchao, QIU Chen, SONG Zhibin, KANG Rongjie, "A four-prism tensegrity robot using a rolling gait for locomotion", <i>Mechanism and Machine Theory</i> , 172, 12 March 2022, doi: <a href="https://doi.org/10.1016/j.mechmachtheory.2022.104828">https://doi.org/10.1016/j.mechmachtheory.2022.104828</a> .  |
| <b>WANG Yuan</b>   | CHEN Bing, #GUO Yang, #WANG Yuan, #LIU Zhen, WEI Qi, #WANG Shixun, ROGACH Andrey, XING Guichuan, SHI Peng, WANG Feng, "Multiexcitonic Emission in Zero-Dimensional Cs <sub>2</sub> ZrCl <sub>6</sub> :Sb <sup>3+</sup> Perovskite Crystals", <i>Journal of the American Chemical Society</i> , 143(42), 13 October 2021, pp 17599–17606, doi: <a href="https://doi.org/10.1021/jacs.1c07537">https://doi.org/10.1021/jacs.1c07537</a> .<br>#ZHAO Xi, #JI Xianglin, #QU Jin, XIE Kai, WANG Zixun, #FANG Peilin, #WANG Yuan, #WAN Youyang, YANG Yang, ZHANG Wenjun, SHI Peng, "Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs", <i>Journal of the American Chemical Society</i> , 144(13), 23 March 2022, pp 6010–6018, doi: <a href="https://doi.org/10.1021/jacs.2c01036">https://doi.org/10.1021/jacs.2c01036</a> . |
| <b>WANG Yue</b>    | #ZHANG Jie, ZHANG Yachao, GUO Qiang, WEN Guohua, XIAO Hanyue, QI Shuo, #WANG Yue, ZHANG Huatang, WANG Lidai, SUN Hongyan, "Photoacoustic/Fluorescence Dual-Modality Probe for Biothiol Discrimination and Tumor Diagnosis in Cells and Mice", <i>ACS Sensors</i> , 7(4), 31 March 2022, pp 1105–1112, doi: <a href="https://doi.org/10.1021/acssensors.2c00058">https://doi.org/10.1021/acssensors.2c00058</a> .<br>ZHANG Yachao, #WANG Yue, LAI Puxiang, WANG Lidai, "Video-rate Dual-modal Wide-beam Harmonic Ultrasound and Photoacoustic Computed Tomography", <i>IEEE Transactions on Medical Imaging</i> , 41(3), 22 October 2021, pp 727-736, doi: <a href="https://doi.org/10.1109/TMI.2021.3122240">https://doi.org/10.1109/TMI.2021.3122240</a> .  |
| <b>WANG Zhuang</b> | SHAN Chengwei, #WANG Zhuang, WANG Zhaojin, WANG Teng, LUO Dou, WANG Kai, SUN Xiao Wei, KYAW Aung Ko Ko, "Screen printing strategy for fabricating flexible crystallized perovskite nanocomposite patterns with high photoluminescence", <i>Flexible and Printed Electronics</i> , 7(1), March 2022, doi: <a href="https://doi.org/10.1088/2058-8585/ac5fb5">https://doi.org/10.1088/2058-8585/ac5fb5</a> .   |
| <b>WU Minghui</b>  | #WU Siying, #WU Minghui, #WANG Gaobo, CHEN Ting Hsuan, "Visual quantitation of silver contamination in fresh water via accumulative length of microparticles in capillary-driven microfluidic devices", <i>Talanta</i> , 235, 12 July 2021, doi: <a href="https://doi.org/10.1016/j.talanta.2021.122707">https://doi.org/10.1016/j.talanta.2021.122707</a> .<br>#WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, CHOW Hiu Lam, LI Iris Wai-Sum, CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i> , 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a> .   |
| <b>WU Siying</b>   | #WU Siying, #WU Minghui, #WANG Gaobo, CHEN Ting Hsuan, "Visual quantitation of silver contamination in fresh water via accumulative length of microparticles in capillary-driven microfluidic devices", <i>Talanta</i> , 235, 12 July 2021, doi: <a href="https://doi.org/10.1016/j.talanta.2021.122707">https://doi.org/10.1016/j.talanta.2021.122707</a> .   |

Section A: Publications of PhD Students

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|-------------------|---|
|                   | #WU Minghui, #WU Siying, #WANG Gaobo, #LIU Wengang, #CHU Lok Ting, #JIANG Tianyi, #KWONG Hoi Kwan, #CHOW Hiu Lam, LI Iris Wai-Sum, #CHEN Ting Hsuan, "Microfluidic particle dam for direct visualization of SARS-CoV-2 antibody levels in COVID-19 vaccinees", <i>Science Advances</i> , 8(22), 03 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn6064">https://doi.org/10.1126/sciadv.abn6064</a> .  |
| <b>XIAO Peng</b>  | HUANG Jianpan, #LAI Ho Chi Joseph, #HAN Xiongqi, #CHEN Zilin, #XIAO Peng, #LIU Yang, CHEN Lin, XU Jiadi, #CHAN Wai Yan Kannie, "Sensitivity schemes for dynamic glucose-enhanced magnetic resonance imaging to detect glucose uptake and clearance in mouse brain at 3 T", <i>NMR in Biomedicine</i> , 35(3), 08 November 2021, doi: <a href="https://doi.org/10.1002/nbm.4640">https://doi.org/10.1002/nbm.4640</a> .  |
| <b>XING Liuxi</b> | #DONG Dingran, #XING Liuxi, #ZHENG Liushuai, #JIA Yuanjun, #SUN Dong, "Automated 3-D Electromagnetic Manipulation of Microrobot With a Path Planner and a Cascaded Controller", <i>IEEE Transactions on Control Systems Technology</i> , 28 December 2021, doi: <a href="https://doi.org/10.1109/TCST.2021.3135895">https://doi.org/10.1109/TCST.2021.3135895</a> .<br>#CAO Hui, #XING Liuxi, #MO Hangjie, #LI Dongfang, #SUN Dong, "Image-Guided Corridor-Based Motion Planning and Magnetic Control of Microrobot in Dynamic Environments", <i>IEEE/ASME Transactions on Mechatronics</i> , 22 June 2022, doi: <a href="https://doi.org/10.1109/TMECH.2022.3181588">https://doi.org/10.1109/TMECH.2022.3181588</a> .                                      |
| <b>XU Xiaoyun</b> | #SI Yifan, #GUO Chunxia, #XU Xiaoyun, #ZHANG Ke, #TAN Renjie, LAU Kin-Tak, #HU Jinlian, "Bioinspired Janus All-Natural Electrospinning Membranes with Directional Water Transport as Ecofriendly Dry Facial Masks", <i>ACS Sustainable Chemistry and Engineering</i> , 10(23), 30 May 2022, pp 7726–7738, doi: <a href="https://doi.org/10.1021/acssuschemeng.2c02094">https://doi.org/10.1021/acssuschemeng.2c02094</a> .  |
| <b>XU Ying</b>    | LIAN Sophie Wan Mei, GUO Song, REN Kewei, #XU Ying, HO John S., #CHEN Chia-Hung, "Heterogeneous multi-compartmental DNA hydrogel particles prepared via microfluidic assembly for lymphocyte-inspired precision medicine", <i>Nanoscale</i> , 13(48), 19 November 2021, pp 20531-20540, doi: <a href="https://doi.org/10.1039/d1nr06594g">https://doi.org/10.1039/d1nr06594g</a> .  |
| <b>XUE Jiaqi</b>  | #LI Xiaoting, #KOH Keng Huat, #XUE Jiaqi, #SO Chun Ho, #XIAO Na, #TIN Chung, #LAI Wai Chiu King, "1D-2D nanohybrid-based textile strain sensor to boost multiscale deformative motion sensing performance", <i>Nano Research</i> , 04 June 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4413-4">https://doi.org/10.1007/s12274-022-4413-4</a> .   |
| <b>YAN Youcan</b> | #YAN Youcan, #HU Zhe, #SHEN Yajing, #PAN Jia, "Surface Texture Recognition by Deep Learning-Enhanced Tactile Sensing", <i>Advanced Intelligent Systems</i> , 4(1), 21 August 2021, doi: <a href="https://doi.org/10.1002/aisy.202100076">https://doi.org/10.1002/aisy.202100076</a> .<br>#YAN Youcan, #SHEN Yajing, #SONG Chaoyang, #PAN Jia, "Tactile Super-resolution Model for Soft Magnetic Skin", <i>IEEE Robotics and Automation Letters</i> , 7(2), 10 January 2022, pp 2589-2596, doi: <a href="https://doi.org/10.1109/LRA.2022.3141449">https://doi.org/10.1109/LRA.2022.3141449</a> .  |
| <b>YANG Liu</b>   | #YANG Liu, #ZHANG Tieshan, #TAN Rong, #YANG Xiong, #GUO Dong, #FENG Yu, #REN Hao, #TANG Yifeng, #SHANG Wanfeng, #SHEN Yajing, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200342">https://doi.org/10.1002/advs.202200342</a> .<br>#TAN Rong, #YANG Xiong, #LU Haojian, #YANG Liu, #ZHANG Tieshan, #MIAO Jiaqi, #FENG Yu, #SHEN Yajing, "Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions", <i>Matter</i> , 5(4), 25 February 2022, pp 1277-1295, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.023">https://doi.org/10.1016/j.matt.2022.01.023</a> . |
| <b>YANG Xiong</b> | #YANG Liu, #ZHANG Tieshan, #TAN Rong, #YANG Xiong, #GUO Dong, #FENG Yu, #REN Hao, #TANG Yifeng, #SHANG Wanfeng, #SHEN Yajing, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200342">https://doi.org/10.1002/advs.202200342</a> .<br>#TAN Rong, #YANG Xiong, #LU Haojian, #YANG Liu, #ZHANG Tieshan, #MIAO Jiaqi, #FENG Yu, #SHEN Yajing, "Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions", <i>Matter</i> , 5(4), 25 February 2022, pp 1277-1295, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.023">https://doi.org/10.1016/j.matt.2022.01.023</a> . |



Section A: Publications of PhD Students

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|  | <p>#<a href="#">YANG Xiong</a>, #<a href="#">TAN Rong</a>, <a href="#">LU Haojian</a>, <a href="#">SHEN Yajing</a>, "Magnetic-Directed Manipulation and Assembly of Fragile Bioartificial Architectures in the Liquid–Liquid Interface", <i>IEEE/ASME Transactions on Mechatronics</i>, 06 January 2022, doi: <a href="https://doi.org/10.1109/TMECH.2021.3136639">https://doi.org/10.1109/TMECH.2021.3136639</a>.</p>  |
| <b>YAO Kuanming</b>  | <p><a href="#">HUANG Jiaming</a>, <a href="#">REN Zhiwei</a>, <a href="#">ZHANG Yaokang</a>, <a href="#">FONG Patrick Wai-Keung</a>, <a href="#">CHANDRAN Hrisheekesh Thachoth</a>, <a href="#">LIANG Qiong</a>, #<a href="#">YAO Kuanming</a>, <a href="#">TANG Hua</a>, <a href="#">XIA Hao</a>, <a href="#">ZHANG Hengkai</a>, <a href="#">YU Xinge</a>, <a href="#">ZHENG Zijian</a>, <a href="#">LI Gang</a>, "Tandem Self-Powered Flexible Electrochromic Energy Supplier for Sustainable All-Day Operations", <i>Advanced Energy Materials</i>, 12(30), 26 June 2022, doi: <a href="https://doi.org/10.1002/aenm.202201042">https://doi.org/10.1002/aenm.202201042</a>.</p>  |
|  | <p><a href="#">PARK Wooyoung</a>, #<a href="#">YIU Chun Ki</a>, #<a href="#">LIU Yiming</a>, #<a href="#">WONG Tsz Hung</a>, #<a href="#">HUANG Xingcan</a>, #<a href="#">ZHOU Jingkun</a>, #<a href="#">LI Jian</a>, #<a href="#">YAO Kuanming</a>, <a href="#">HUANG Ya</a>, <a href="#">LI Hu</a>, <a href="#">LI Jiyu</a>, #<a href="#">JIAO Yanli</a>, <a href="#">SHI Rui</a>, <a href="#">YU Xinge</a>, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i>, 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a>.</p>   |
|  | <p><a href="#">HUANG Ya</a>, #<a href="#">YAO Kuanming</a>, <a href="#">LI Jiyu</a>, <a href="#">LI Dengfeng</a>, #<a href="#">JIA Huiling</a>, #<a href="#">LIU Yiming</a>, #<a href="#">YIU Chun Ki</a>, <a href="#">PARK Wooyoung</a>, <a href="#">YU Xinge</a>, "Recent advances in multi-mode haptic feedback technologies towards wearable interfaces", <i>Materials Today Physics</i>, 22, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100602">https://doi.org/10.1016/j.mtphys.2021.100602</a>.</p>   |
|  | <p>#<a href="#">ZHU Jingyi</a>, <a href="#">LIU Chao</a>, <a href="#">LIU Yan</a>, #<a href="#">CHEN Jiangbo</a>, <a href="#">ZHANG Yachao</a>, #<a href="#">YAO Kuanming</a>, <a href="#">WANG Lidaj</a>, "Self-fluence-compensated functional photoacoustic microscopy", <i>IEEE Transactions on Medical Imaging</i>, 40(12), 26 July 2021, pp 3856-3866, doi: <a href="https://doi.org/10.1109/TMI.2021.3099820">https://doi.org/10.1109/TMI.2021.3099820</a>.</p>   |
|  | <p><a href="#">LI Dengfeng</a>, #<a href="#">HE Jiahui</a>, <a href="#">SONG Zhen</a>, #<a href="#">YAO Kuanming</a>, <a href="#">WU Mengge</a>, <a href="#">FU Haoran</a>, #<a href="#">LIU Yiming</a>, #<a href="#">GAO Zhan</a>, #<a href="#">ZHOU Jingkun</a>, <a href="#">WEI Lei</a>, <a href="#">ZHANG Zhengyou</a>, <a href="#">DAI Yuan</a>, <a href="#">XIE Zhaoqian</a>, <a href="#">YU Xinge</a>, "Miniaturization of mechanical actuators in skin-integrated electronics for haptic interfaces", <i>Microsystems and Nanoengineering</i>, 7, 22 October 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00301-x">https://doi.org/10.1038/s41378-021-00301-x</a>.</p>  |
|  | <p>#<a href="#">HUANG Xingcan</a>, <a href="#">LI Hu</a>, <a href="#">LI Jiyu</a>, #<a href="#">HUANG Libei</a>, #<a href="#">YAO Kuanming</a>, #<a href="#">YIU Chun Ki</a>, #<a href="#">LIU Yiming</a>, #<a href="#">WONG Tsz Hung</a>, <a href="#">LI Dengfeng</a>, <a href="#">WU Mengge</a>, <a href="#">HUANG Ya</a>, #<a href="#">GAO Zhan</a>, #<a href="#">ZHOU Jingkun</a>, #<a href="#">GAO Yuyu</a>, #<a href="#">LI Jian</a>, #<a href="#">JIAO Yanli</a>, <a href="#">SHI Rui</a>, <a href="#">ZHANG Binbin</a>, <a href="#">HU Bofan</a>, <a href="#">GUO Qinglei</a>, <a href="#">SONG Enming</a>, <a href="#">YE Ruquan</a>, <a href="#">YU Xinge</a>, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p> |
|  | <p>#<a href="#">WONG Tsz Hung</a>, #<a href="#">LIU Yiming</a>, #<a href="#">LI Jian</a>, #<a href="#">YAO Kuanming</a>, <a href="#">LIU Sitong</a>, #<a href="#">YIU Chun Ki</a>, #<a href="#">HUANG Xingcan</a>, <a href="#">WU Mengge</a>, <a href="#">PARK Wooyoung</a>, #<a href="#">ZHOU Jingkun</a>, #<a href="#">KHAZAEI NEJAD GHARAHEKAN Sina</a>, <a href="#">LI Hu</a>, <a href="#">LI Dengfeng</a>, <a href="#">XIE Zhaoqian</a>, <a href="#">YU Xinge</a>, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i>, 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a>.</p>   |
|  | <p>#<a href="#">LI Jian</a>, #<a href="#">LIU Yiming</a>, <a href="#">WU Mengge</a>, #<a href="#">YAO Kuanming</a>, #<a href="#">GAO Zhan</a>, #<a href="#">GAO Yuyu</a>, #<a href="#">HUANG Xingcan</a>, #<a href="#">WONG Tsz Hung</a>, #<a href="#">ZHOU Jingkun</a>, <a href="#">LI Dengfeng</a>, <a href="#">LI Hu</a>, <a href="#">LI Jiyu</a>, <a href="#">HUANG Ya</a>, <a href="#">SHI Rui</a>, <a href="#">YU Junsheng</a>, <a href="#">YU Xinge</a>, "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i>, 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a>.</p>  |
|  | <p><a href="#">WANG Haoyu</a>, <a href="#">WANG Jiaqi</a>, #<a href="#">YAO Kuanming</a>, <a href="#">FU Jingjing</a>, <a href="#">XIA Xin</a>, <a href="#">ZHANG Ruirui</a>, <a href="#">LI Jiyu</a>, <a href="#">XU Guoqiang</a>, <a href="#">WANG Lingyun</a>, <a href="#">YANG Jingchao</a>, <a href="#">LAI Jie</a>, <a href="#">DAI Yuan</a>, <a href="#">ZHANG Zhengyou</a>, <a href="#">LI Anyin</a>, <a href="#">ZHU Yuyan</a>, <a href="#">YU Xinge</a>, <a href="#">WANG Zhong Lin</a>, <a href="#">ZI Yunlong</a>, "A paradigm shift fully self-powered long-distance wireless sensing solution enabled by discharge-induced displacement current", <i>Science Advances</i>, 7(39), 22 September 2021, doi: <a href="https://doi.org/10.1126/sciadv.abi6751">https://doi.org/10.1126/sciadv.abi6751</a>.</p>  |
| <p><a href="#">WU Mengge</a>, <a href="#">SHI Rui</a>, #<a href="#">ZHOU Jingkun</a>, #<a href="#">WONG Tsz Hung</a>, #<a href="#">YAO Kuanming</a>, #<a href="#">LI Jian</a>, #<a href="#">HUANG Xingcan</a>, <a href="#">LI Dengfeng</a>, #<a href="#">GAO Yuyu</a>, #<a href="#">LIU Yiming</a>, <a href="#">HOU Sihui</a>, <a href="#">YU Junsheng</a>, <a href="#">YU Xinge</a>, "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i>, 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a>.</p> |   |

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|                           | <p>#YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p> <p>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p> <p>#HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p> <p>#HUANG Xingcan, LI Jiyu, #LIU Yiming, #WONG Tsz Hung, SU Jingyou, #YAO Kuanming, #ZHOU Jingkun, HUANG Ya, LI Hu, LI Dengfeng, WU Mengge, SONG Enming, HAN Shijiao, YU Xinge, "Epidermal self-powered sweat sensors for glucose and lactate monitoring", <i>Bio-Design and Manufacturing</i>, 5(1), 19 July 2021, pp 201-209, doi: <a href="https://doi.org/10.1007/s42242-021-00156-1">https://doi.org/10.1007/s42242-021-00156-1</a>.</p> <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a>.</p> <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p> <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p> <p>#WONG Tsz Hung, #YIU Chun Ki, #ZHOU Jingkun, SONG Zhen, #LIU Yiming, #ZHAO Ling, #YAO Kuanming, PARK Wooyoung, SONG Enming, XIE Zhaoqian, YU Xinge, #YOO Woojung, "Tattoo-like epidermal electronics as skin sensors for human machine interfaces", <i>Soft Science</i>, 1(2), 23 September 2021, doi: <a href="https://doi.org/10.20517/ss.2021.09">https://doi.org/10.20517/ss.2021.09</a>.</p> |
| <p><b>YIU Chun Ki</b></p> | <p>PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i>, 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a>.</p> <p>HUANG Ya, #YAO Kuanming, LI Jiyu, LI Dengfeng, #JIA Huiling, #LIU Yiming, #YIU Chun Ki, PARK Wooyoung, YU Xinge, "Recent advances in multi-mode haptic feedback technologies towards wearable interfaces", <i>Materials Today Physics</i>, 22, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100602">https://doi.org/10.1016/j.mtphys.2021.100602</a>.</p>  |

Section A: Publications of PhD Students

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|  | <p>#WONG Tsz Hung, #LIU Yiming, #LI Jian, #YAO Kuanming, LIU Sitong, #YIU Chun Ki, #HUANG Xingcan, WU Mengge, PARK Wooyoung, #ZHOU Jingkun, #KHAZAEE NEJAD GHARAHEKAN Sina, LI Hu, LI Dengfeng, XIE Zhaoqian, YU Xinge, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i>, 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a>.</p>  |
|  | <p>#HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p>                          |
|  | <p>#YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p>  |
|  | <p>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAEE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>   |
|  | <p>#HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAEE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p>  |
|  | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAEE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a>.</p> |
|  | <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p>                              |
|  | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAEE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p>  |
|  | <p>#WONG Tsz Hung, #YIU Chun Ki, #ZHOU Jingkun, SONG Zhen, #LIU Yiming, #ZHAO Ling, #YAO Kuanming, PARK Wooyoung, SONG Enming, XIE Zhaoqian, YU Xinge, #YOO Woojung, "Tattoo-like epidermal electronics as skin sensors for human machine interfaces", <i>Soft Science</i>, 1(2), 23 September 2021, doi: <a href="https://doi.org/10.20517/ss.2021.09">https://doi.org/10.20517/ss.2021.09</a>.</p>   |

Section A: Publications of PhD Students

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|----------------------|---|
| <b>YOU Baihao</b>    | LI Xiufeng, #YOU Baihao, SHUM Ho Cheung, CHEN Chia-Hung, "Future foods: Design, fabrication and production through microfluidics", <i>Biomaterials</i> , 287, 15 June 2022, doi: <a href="https://doi.org/10.1016/j.biomaterials.2022.121631">https://doi.org/10.1016/j.biomaterials.2022.121631</a> .  |
| <b>YU Jinming</b>    | #YU Jinming, KUWENTRAI Chaiyaporn, GONG Hua-Rui, LI Renhao, ZHANG Bao-Zhong, LIN Xuansheng, WANG Xiaolei, HUANG Jian-Dong, XU Chenjie, "Intradermal delivery of mRNA using cryomicroneedles", <i>Acta Biomaterialia</i> , 148, 11 June 2022, pp 133-141, doi: <a href="https://doi.org/10.1016/j.actbio.2022.06.015">https://doi.org/10.1016/j.actbio.2022.06.015</a> .   |
| <b>ZHANG Jin</b>     | #ZHANG Jin, LIU Lu, JI Haibo, "Optimal output consensus of second-order uncertain nonlinear systems on weight-unbalanced directed networks", <i>International Journal of Robust and Nonlinear Control</i> , 32(8), 10 February 2022, pp 4878-4898, doi: <a href="https://doi.org/10.1002/rnc.6059">https://doi.org/10.1002/rnc.6059</a> .   |
| <b>ZHANG Ke</b>      | SI Yifan, GUO Chunxia, #XU Xiaoyun, #ZHANG Ke, #TAN Renjie, LAU Kin-Tak, HU Jinlian, "Bioinspired Janus All-Natural Electrospinning Membranes with Directional Water Transport as Ecofriendly Dry Facial Masks", <i>ACS Sustainable Chemistry and Engineering</i> , 10(23), 30 May 2022, pp 7726–7738, doi: <a href="https://doi.org/10.1021/acssuschemeng.2c02094">https://doi.org/10.1021/acssuschemeng.2c02094</a> .   |
| <b>ZHANG Qi</b>      | #ZHANG Qi, #LI Min, HU Wenbo, WANG Xin, HU Jinlian, "Spidroin-Based Biomaterials in Tissue Engineering: General Approaches and Potential Stem Cell Therapies", <i>Stem Cells International</i> , 2021, 20 December 2021, doi: <a href="https://doi.org/10.1155/2021/7141550">https://doi.org/10.1155/2021/7141550</a> .   |
| <b>ZHANG Tieshan</b> | #YANG Liu, #ZHANG Tieshan, #TAN Rong, #YANG Xiong, #GUO Dong, #FENG Yu, #REN Hao, #TANG Yifeng, SHANG Wanfeng, SHEN Yajing, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i> , 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200342">https://doi.org/10.1002/advs.202200342</a> .<br>#TAN Rong, #YANG Xiong, LU Haojian, #YANG Liu, #ZHANG Tieshan, #MIAO Jiaqi, #FENG Yu, SHEN Yajing, "Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions", <i>Matter</i> , 5(4), 25 February 2022, pp 1277-1295, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.023">https://doi.org/10.1016/j.matt.2022.01.023</a> .<br>#MIAO Jiaqi, #ZHANG Tieshan, #LI Gen, SHANG Wanfeng, SHEN Yajing, "Magnetic Artificial Cilia Carpets for Transport, Mixing, and Directional Diffusion", <i>Advanced Engineering Materials</i> , 24(7), 24 November 2021, doi: <a href="https://doi.org/10.1002/adem.202101399">https://doi.org/10.1002/adem.202101399</a> .  |
| <b>ZHANG Yuyue</b>   | #ZHANG Yuyue, YANG Cheng, SHI Haibin, XU Chenjie, "Current technological trends in transdermal biosensing", <i>Advanced NanoBiomed Research</i> , 28 June 2022, doi: <a href="https://doi.org/10.1002/anbr.202200040">https://doi.org/10.1002/anbr.202200040</a> .<br>ZHAO Guangyao, WANG Fangcheng, #ZHANG Yuyue, SU Yiming, LIU Peng, ZHAN Zhuo, XU Chenjie, YANG Cheng, "High-performance hydrogen peroxide micro-sensors based on laser-induced fabrication of graphene@Ag electrodes", <i>Applied Surface Science</i> , 565, 08 July 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.150565">https://doi.org/10.1016/j.apsusc.2021.150565</a> .  |
| <b>ZHAO Ling</b>     | #YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i> , 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a> .<br>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i> , 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a> .<br>#HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i> , 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a> . |

Section A: Publications of PhD Students

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|                       | <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p>                             |
|                       | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p>  |
|                       | <p>#WONG Tsz Hung, #YIU Chun Ki, #ZHOU Jingkun, SONG Zhen, #LIU Yiming, #ZHAO Ling, #YAO Kuanming, PARK Wooyoung, SONG Enming, XIE Zhaoqian, YU Xinge, #YOO Woojung, "Tattoo-like epidermal electronics as skin sensors for human machine interfaces<sup>[SEP]</sup>", <i>Soft Science</i>, 1(2), 23 September 2021, doi: <a href="https://doi.org/10.20517/ss.2021.09">https://doi.org/10.20517/ss.2021.09</a>.</p>  |
| <b>ZHAO Xi</b>        | <p>#ZHAO Xi, #JI Xianglin, #QU Jin, XIE Kai, WANG Zixun, #FANG Peilin, #WANG Yuan, #WAN Youyang, YANG Yang, ZHANG Wenjun, SHI Peng, "Sequencing-free Analysis of Multiple Methylations on Gene-Specific mRNAs", <i>Journal of the American Chemical Society</i>, 144(13), 23 March 2022, pp 6010–6018, doi: <a href="https://doi.org/10.1021/jacs.2c01036">https://doi.org/10.1021/jacs.2c01036</a>.</p>  |
| <b>ZHENG Liushuai</b> | <p>#JIA Yuanjun, #ZHENG Liushuai, #DONG Dingran, WANG Yong, SUN Dong, "Robust Navigation Control of a Microrobot With Hysteresis Compensation", <i>IEEE Transactions on Automation Science and Engineering</i>, 30 August 2021, doi: <a href="https://doi.org/10.1109/TASE.2021.3106022">https://doi.org/10.1109/TASE.2021.3106022</a>.</p>   |
|                       | <p>#DONG Dingran, #XING Liuxi, #ZHENG Liushuai, #JIA Yuanjun, SUN Dong, "Automated 3-D Electromagnetic Manipulation of Microrobot With a Path Planner and a Cascaded Controller", <i>IEEE Transactions on Control Systems Technology</i>, 28 December 2021, doi: <a href="https://doi.org/10.1109/TCST.2021.3135895">https://doi.org/10.1109/TCST.2021.3135895</a>.</p>   |
|                       | <p>WEI Tanyong, LI Junyang, #ZHENG Liushuai, WANG Cheng, LI Feng, TIAN Hua, SUN Dong, "Development of a Cell-Loading Microrobot with Simultaneously Improved Degradability and Mechanical Strength for Performing In Vivo Delivery Tasks", <i>Advanced Intelligent Systems</i>, 3(11), 07 July 2021, doi: <a href="https://doi.org/10.1002/aisy.202100052">https://doi.org/10.1002/aisy.202100052</a>.</p>  |
|                       | <p>#ZHENG Liushuai, #JIA Yuanjun, #DONG Dingran, #LAM Wah Shing, LI Dongfang, JI Haibo, SUN Dong, "3D Navigation Control of Untethered Magnetic Microrobot in Centimeter-Scale Workspace Based on Field-of-View Tracking Scheme", <i>IEEE Transactions on Robotics</i>, 22 November 2021, doi: <a href="https://doi.org/10.1109/TRO.2021.3118205">https://doi.org/10.1109/TRO.2021.3118205</a>.</p>   |
| <b>ZHENG Zhuoqi</b>   | <p>#ZHENG Zhuoqi, CAO Chao, PAN Jia, "A Hierarchical Approach for Mobile Robot Exploration in Pedestrian Crowd", <i>IEEE Robotics and Automation Letters</i>, 7(1), 06 October 2021, pp 175-182, doi: <a href="https://doi.org/10.1109/LRA.2021.3118078">https://doi.org/10.1109/LRA.2021.3118078</a>.</p>  |
| <b>ZHOU Jingkun</b>   | <p>PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i>, 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a>.</p>   |
|                       | <p>LI Dengfeng, #HE Jiahui, SONG Zhen, #YAO Kuanming, WU Mengge, FU Haoran, #LIU Yiming, #GAO Zhan, #ZHOU Jingkun, WEI Lei, ZHANG Zhengyou, DAI Yuan, XIE Zhaoqian, YU Xinge, "Miniaturization of mechanical actuators in skin-integrated electronics for</p>   |

Section A: Publications of PhD Students

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|--|--|
|  | <p>haptic interfaces", <i>Microsystems and Nanoengineering</i>, 7, 22 October 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00301-x">https://doi.org/10.1038/s41378-021-00301-x</a>.</p>  |
|  | <p>#WONG Tsz Hung, #LIU Yiming, #LI Jian, #YAO Kuanming, LIU Sitong, #YIU Chun Ki, #HUANG Xingcan, WU Mengge, PARK Wooyoung, #ZHOU Jingkun, #KHAZAEE NEJAD GHARAHEKAN Sina, LI Hu, LI Dengfeng, XIE Zhaoqian, YU Xinge, "Trieoelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i>, 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a>.</p>  |
|  | <p>#HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p>                        |
|  | <p>#LI Jian, #LIU Yiming, WU Mengge, #YAO Kuanming, #GAO Zhan, #GAO Yuyu, #HUANG Xingcan, #WONG Tsz Hung, #ZHOU Jingkun, LI Dengfeng, LI Hu, LI Jiyu, HUANG Ya, SHI Rui, YU Junsheng, YU Xinge, "Thin, soft, 3D printing enabled crosstalk minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i>, 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a>.</p>   |
|  | <p>WU Mengge, SHI Rui, #ZHOU Jingkun, #WONG Tsz Hung, #YAO Kuanming, #LI Jian, #HUANG Xingcan, LI Dengfeng, #GAO Yuyu, #LIU Yiming, HOU Sihui, YU Junsheng, YU Xinge, "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i>, 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a>.</p>   |
|  | <p>#YIU Chun Ki, #LIU Yiming, ZHANG Chao, #ZHOU Jingkun, #JIA Huiling, #WONG Tsz Hung, #HUANG Xingcan, #LI Jian, #YAO Kuanming, YAU Ming Kei, #ZHAO Ling, LI Hu, ZHANG Binbin, PARK Wooyoung, ZHANG Yuanting, WANG Zuankai, YU Xinge, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p>  |
|  | <p>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAEE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>   |
|  | <p>#HUANG Xingcan, #LIU Yiming, #ZHOU Jingkun, #KHAZAEE NEJAD GHARAHEKAN Sina, #WONG Tsz Hung, HUANG Ya, LI Hu, #YIU Chun Ki, PARK Wooyoung, #LI Jian, SU Jingyou, #ZHAO Ling, #YAO Kuanming, WU Mengge, #GAO Zhan, LI Dengfeng, LI Jiyu, SHI Rui, YU Xinge, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p>  |
|  | <p>#HUANG Xingcan, LI Jiyu, #LIU Yiming, #WONG Tsz Hung, SU Jingyou, #YAO Kuanming, #ZHOU Jingkun, HUANG Ya, LI Hu, LI Dengfeng, WU Mengge, SONG Enming, HAN Shijiao, YU Xinge, "Epidermal self-powered sweat sensors for glucose and lactate monitoring", <i>Bio-Design and Manufacturing</i>, 5(1), 19 July 2021, pp 201-209, doi: <a href="https://doi.org/10.1007/s42242-021-00156-1">https://doi.org/10.1007/s42242-021-00156-1</a>.</p>  |
|  | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #YIU Chun Ki, SONG Zhen, #HUANG Wei, #KHAZAEE NEJAD GHARAHEKAN Sina, LI Hu, #WONG Tsz Hung, #YAO Kuanming, #ZHAO Ling, YOO Woojung, PARK Wooyoung, LI Jiyu, HUANG Ya, LAM Hiu Wai Raymond, SONG Enming, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, LI Wen Jung, XIE Zhaoqian, YU Xinge, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/adv.202104635">https://doi.org/10.1002/adv.202104635</a>.</p> |

Section A: Publications of PhD Students

|               |   |
|---------------|---|
|               | <p>#LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #YIU Chun Ki, #GAO Yuyu, #ZHAO Ling, #ZHOU Jingkun, PARK Wooyoung, ZHAO Zhao, #YAO Kuanming, LI Hu, #JIA Huiling, #LI Jian, LI Jiyu, HUANG Ya, WU Mengge, ZHANG Binbin, LI Dengfeng, ZHANG Chao, WANG Zuankai, YU Xinge, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p> |
|               | <p>WU Shengfan, #LI Zhen, ZHANG Jie, #WU Xin, #DENG Xiang, #LIU Yiming, #ZHOU Jingkun, ZHI Chunyi, YU Xinge, CHOY Wallace C.H., ZHU Zonglong, JEN Alex, "Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells", <i>Advanced Materials</i>, 33(51), 03 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105539">https://doi.org/10.1002/adma.202105539</a>.</p>  |
|               | <p>#LIU Yiming, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #KHAZAE NEJAD GHARAHEKAN Sina, #YIU Chun Ki, LI Hu, #WONG Tsz Hung, PARK Wooyoung, #YAO Kuanming, #ZHAO Ling, SHI Rui, WANG Yanwei, DAI Zhenxue, YU Xinge, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p>  |
|               | <p>#WONG Tsz Hung, #YIU Chun Ki, #ZHOU Jingkun, SONG Zhen, #LIU Yiming, #ZHAO Ling, #YAO Kuanming, PARK Wooyoung, SONG Enming, XIE Zhaoqian, YU Xinge, #YOO Woojung, "Tattoo-like epidermal electronics as skin sensors for human machine interfaces", <i>Soft Science</i>, 1(2), 23 September 2021, doi: <a href="https://doi.org/10.20517/ss.2021.09">https://doi.org/10.20517/ss.2021.09</a>.</p>  |
| ZHOU Qianghui | <p>#ZHOU Qianghui, XU Xiang, LIU Lu, FENG Gang Gary, "Output feedback stabilization of linear systems with infinite distributed input and output delays", <i>Information Sciences</i>, 576, October 2021, pp 54-67, doi: <a href="https://doi.org/10.1016/j.ins.2021.06.060">https://doi.org/10.1016/j.ins.2021.06.060</a>.</p>   |
|               | <p>#ZHOU Qianghui, XU Xiang, LIU Lu, FENG Gang Gary, "A Lyapunov Approach to Robust Cooperative Output Regulation of Multi-Agent Systems under Infinite Communication Delays", <i>IEEE Transactions on Automatic Control</i>, 10 June 2022.</p>   |
| ZHOU Xiong    | <p>YANG Yingming, #ZHOU Xiong, CHAN Yau Kei, WANG Ziyou, LI Limei, LI Jiyao, LIANG Kunneng, DENG Yi, "Photo-Activated Nanofibrous Membrane with Self-Rechargeable Antibacterial Function for Stubborn Infected Cutaneous Regeneration", <i>Small</i>, 18(12), 27 January 2022, doi: <a href="https://doi.org/10.1002/smll.202105988">https://doi.org/10.1002/smll.202105988</a>.</p>  |
|               | <p>#ZHOU Xiong, WANG Ziyou, CHAN Yau Kei, YANG Yingming, JIAO Zheng, LI Limei, LI Jiyao, LIANG Kunneng, DENG Yi, "Infection Micromilieu-Activated Nanocatalytic Membrane for Orchestrating Rapid Sterilization and Stalled Chronic Wound Regeneration", <i>Advanced Functional Materials</i>, 32(7), 05 November 2021, doi: <a href="https://doi.org/10.1002/adfm.202109469">https://doi.org/10.1002/adfm.202109469</a>.</p>  |
| ZHU Jingyi    | <p>#QU Zheng, LIU Chao, #ZHU Jingyi, ZHANG Yachao, ZHOU Yingying, WANG Lidai, "Two-step proximal gradient descent algorithm for photoacoustic signal unmixing", <i>Photoacoustics</i>, 27, 09 June 2022, doi: <a href="https://doi.org/10.1016/j.pacs.2022.100379">https://doi.org/10.1016/j.pacs.2022.100379</a>.</p>  |
|               | <p>#ZHU Jingyi, LIU Chao, LIU Yan, #CHEN Jiangbo, ZHANG Yachao, #YAO Kuanming, WANG Lidai, "Self-fluence-compensated functional photoacoustic microscopy", <i>IEEE Transactions on Medical Imaging</i>, 40(12), 26 July 2021, pp 3856-3866, doi: <a href="https://doi.org/10.1109/TMI.2021.3099820">https://doi.org/10.1109/TMI.2021.3099820</a>.</p>   |
|               | <p>#CHEN Jiangbo, ZHANG Yachao, #BAI Songnan, #ZHU Jingyi, CHIRARATTANANON Pakpong, NI Kai, ZHOU Qian, WANG Lidai, "Dual-foci fast-scanning photoacoustic microscopy with 3.2-MHz A-line rate", <i>Photoacoustics</i>, 23, 09 August 2021, doi: <a href="https://doi.org/10.1016/j.pacs.2021.100292">https://doi.org/10.1016/j.pacs.2021.100292</a>.</p>  |
|               | <p>HE Linyun, ZHANG Yachao, #CHEN Jiangbo, #LIU Gongyuan, #ZHU Jingyi, #LI Xiaozhen, LI Dengfeng, YANG Yuqi, LEE Chun Sing, SHI Jiahai, YIN Chao, LAI Puxiang, WANG Lidai, FANG Chihua, "A multifunctional targeted nanoprobe with high NIR-II PAI/MRI performance for precise theranostics of orthotopic early-stage hepatocellular carcinoma", <i>Journal of Materials Chemistry B</i>, 9(42), 18 September 2021, pp 8779-8792, doi: <a href="https://doi.org/10.1039/d1tb01729b">https://doi.org/10.1039/d1tb01729b</a>.</p>   |

Section A: Publications of PhD Students

|                          |   |
|--------------------------|---|
| <b>ZOU Shangjie</b>      | # <u>ZOU Shangjie</u> , <u>KHOO Bee Luan</u> , "A 6-gene panel as a signature to predict recovery from advanced heart failure using transcriptomic analysis", <i>Genes and Diseases</i> , 9(5), 05 January 2022, pp 1178-1180, doi: <a href="https://doi.org/10.1016/j.gendis.2021.12.001">https://doi.org/10.1016/j.gendis.2021.12.001</a> .   |
| <b>Conference papers</b> |   |
| <b>CHAN Pak Yu</b>       | # <u>CHAN Pak Yu</u> , <u>KOH Keng Huat</u> , <u>SHIU Kin Hei</u> , <u>SO Chun Ho</u> , <u>THAIKA MUTHUWAPPA Ahmed Musthafa Farhan</u> , <u>YEUNG Kenny Pui Ching</u> , <u>LAU Michelle Pui Yee</u> , <u>CHEUNG Pak Kin</u> , <u>LAI Wai Chiu King</u> , "Groove Profile Design and Durability Analysis of Sheave for Robotic Wire Climber System", <i>2021 IEEE International Conference on Robotics and Biomimetics, IEEE-ROBIO 2021</i> , Sanya, China, 27-31 December 2021, pp 2030-2035, (ISBN: 9781665405355,9781665405362).  |
| <b>CHEN Jiangbo</b>      | # <u>CHEN Jiangbo</u> , <u>ZHANG Yachao</u> , # <u>LI Xiaozhen</u> , # <u>ZHU Jingyi</u> , <u>LI Dengfeng</u> , <u>LI Shengliang</u> , <u>LEE Chun Sing</u> , <u>WANG Lidai</u> , "Confocal Visible/NIR Photoacoustic Microscopy of Early-stage Tumor with Structural, Functional and Nanoprobe Contrasts", <i>2021 Conference on Lasers and Electro-Optics (CLEO) - Proceedings</i> , Virtual, United States, 09-14 May 2021, (ISBN: 9781665447928,9781943580910).<br>AMJADIAN Mohammadreza, MOSTAFAVI Seyed Masood, # <u>CHEN Jiangbo</u> , <u>WANG Lidai</u> , <u>LUO Zhengtang</u> , "Super-resolution photoacoustic microscopy beyond diffraction limit: preliminary results", <i>Photons Plus Ultrasound - Imaging and Sensing 2022</i> , Moscone Center (22–27 January 2022) & Virtual (20–24 February 2022), California, United States, 22 January - 24 February 2022, (ISBN: 9781510647916,9781510647923).   |
| <b>CHEN Zilin</b>        | <u>HUANG Jianpan</u> , # <u>CHEN Zilin</u> , <u>VAN ZIJL Peter C.M.</u> , # <u>LAW Lok Hin</u> , <u>PEMMASANI PRABAKARAN Rohith Saai</u> , # <u>PARK Se Weon</u> , <u>XU Jiadi</u> , <u>CHAN Wai Yan Kannie</u> , "Dynamic glucose enhanced MRI detects glucose-related responses in mouse brain under normoxia and hyperoxia", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.<br># <u>CHEN Zilin</u> , <u>HUANG Jianpan</u> , # <u>LAI Ho Chi Joseph</u> , <u>TSE Kai-Hei</u> , <u>CHAN Wai Yan Kannie</u> , "Demyelination and remyelination in cuprizone mouse model detected by CEST MRI at 3T", <i>Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.<br><u>PEMMASANI PRABAKARAN Rohith Saai</u> , # <u>CHEN Zilin</u> , # <u>LAI Ho Chi Joseph</u> , # <u>PARK Se Weon</u> , # <u>YANG Liu</u> , <u>HUANG Jianpan</u> , <u>CHAN Wai Yan Kannie</u> , "Single-offset and multi-offset super-resolution for CEST MRI using deep transfer learning", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022. |
| <b>DENG Yanlin</b>       | # <u>DENG Yanlin</u> , <u>CHUA Song Lin</u> , <u>KHOO Bee Luan</u> , "A 3D cancer-biofilm microfluidic model for disease modelling and drug screening", <i>MicroTAS 2021 - 25th International Conference on Miniaturized Systems for Chemistry and Life Sciences</i> , Palm Springs, Virtual, United States, 10-14 October 2021, pp 79-80, (ISBN: 9781733419031).   |
| <b>HU Zhe</b>            | # <u>ZHANG Zhong</u> , <u>ZHENG Yu</u> , # <u>HU Zhe</u> , <u>LIU Lezhang</u> , # <u>ZHAO Xuan</u> , <u>LI Xiong</u> , <u>PAN Jia</u> , "A Computational Framework for Robot Hand Design via Reinforcement Learning", <i>IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2021</i> , Online, Prague, Czech Republic, 27 September - 01 October 2021, pp 7216-7222, (ISBN: 9781665417143,9781665417150).  |
| <b>HUO Yingxin</b>       | # <u>HUO Yingxin</u> , <u>LI XIANG</u> , <u>ZHANG XUAN</u> , <u>SUN Dong</u> , "Intention-Driven Variable Impedance Control for Physical Human-Robot Interaction", <i>2021 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, AIM 2021</i> , Virtual Conference, Delft, Netherlands, 12-16 July 2021, pp 1220-1225, (ISBN: 9781665441391).  |
| <b>LAI Ho Chi Joseph</b> | # <u>CHEN Zilin</u> , <u>HUANG Jianpan</u> , # <u>LAI Ho Chi Joseph</u> , <u>TSE Kai-Hei</u> , <u>CHAN Wai Yan Kannie</u> , "Demyelination and remyelination in cuprizone mouse model detected by CEST MRI at 3T", <i>Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.<br><u>PEMMASANI PRABAKARAN Rohith Saai</u> , # <u>CHEN Zilin</u> , # <u>LAI Ho Chi Joseph</u> , # <u>PARK Se Weon</u> , # <u>YANG Liu</u> , <u>HUANG Jianpan</u> , <u>CHAN Wai Yan Kannie</u> , "Single-offset and multi-offset super-resolution for CEST MRI using deep transfer learning", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.  |



Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
| <b>LAW Lok Hin</b>   | HUANG Jianpan, #CHEN Zilin, VAN ZIJL Peter C.M., #LAW Lok Hin, PEMMASANI PRABAKARAN Rohith Saai, #PARK Se Weon, XU Jiadi, CHAN Wai Yan Kannie, "Dynamic glucose enhanced MRI detects glucose-related responses in mouse brain under normoxia and hyperoxia", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.         |
| <b>LIAO Junchen</b>  | #LIAO Junchen, CHUA Song Lin, KHOO Bee Luan, "SENSITIVE DIAGNOSIS OF BACTERIAL INFECTIONS WITH LABEL-FREE MICROFLUIDICS", <i>MicroTAS 2021 - 25th International Conference on Miniaturized Systems for Chemistry and Life Sciences</i> , Palm Springs, Virtual, United States, 10-14 October 2021, pp 785-786, (ISBN: 9781733419031).  |
| <b>LIU Yi</b>        | 任冀峰, #LIU Yi, LAM Hiu Wai Raymond, "类微血管的直型微通道中对细胞速度的三维仿真分析", <i>第十三届全国生物力学学术会议 - 会议论文摘要汇编</i> , 贵州医科大学, Guiyang, China, 05-09 October 2021, pp 110.   |
| <b>PARK Se Weon</b>  | HUANG Jianpan, #CHEN Zilin, VAN ZIJL Peter C.M., #LAW Lok Hin, PEMMASANI PRABAKARAN Rohith Saai, #PARK Se Weon, XU Jiadi, CHAN Wai Yan Kannie, "Dynamic glucose enhanced MRI detects glucose-related responses in mouse brain under normoxia and hyperoxia", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.         |
|                      | PEMMASANI PRABAKARAN Rohith Saai, #CHEN Zilin, #LAI Ho Chi Joseph, #PARK Se Weon, #YANG Liu, HUANG Jianpan, CHAN Wai Yan Kannie, "Single-offset and multi-offset super-resolution for CEST MRI using deep transfer learning", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.  |
| <b>WEI Ruofeng</b>   | LI Bin, #WEI Ruofeng, XU Jiaqi, LU Bo, YEE Chi-Hang, NG Chi Fai, HENG Pheng-Ann, DOU Qi, LIU Yun-Hui, "3D Perception based Imitation Learning under Limited Demonstration for Laparoscope Control in Robotic Surgery", <i>2022 IEEE International Conference on Robotics and Automation, ICRA 2022</i> , Philadelphia, United States, 23-27 May 2022, pp 7664-7670, (ISBN: 9781728196817).           |
|                      | LI Bin, #WEI Ruofeng, XU Jiaqi, LU Bo, YEE Chi-Hang, NG Chi Fai, HENG Pheng-Ann, DOU Qi, LIU Yun-Hui, "3D Perception based Imitation Learning under Limited Demonstration for Laparoscope Control in Robotic Surgery", <i>2022 IEEE International Conference on Robotics and Automation (ICRA)</i> , Philadelphia, United States, 23-27 May 2022, pp 7664-7670, (ISBN: 9781728196817,9781728196824). |
| <b>XU Ying</b>       | #XU Ying, CHEN Chia-Hung, "SINGLE-CELL CYTOKINE DETECTION VIA CELL-ANCHORED CAPTURE MATRIX BASED ON DROPLET MICROFLUIDICS", <i>MicroTAS 2021 - 25th International Conference on Miniaturized Systems for Chemistry and Life Sciences</i> , Palm Springs, Virtual, United States, 10-14 October 2021, pp 1645-1646, (ISBN: 9781733419031).  |
|                      | #XU Ying, CHEN Chia-Hung, "SINGLE-CELL CYTOKINE DETECTION VIA CELL-ANCHORED CAPTURE MATRIX BASED ON DROPLET MICROFLUIDICS", <i>25th International Conference on Miniaturized Systems for Chemistry and Life Sciences</i> , Hybrid, Palm Springs, United States, 10-14 October 2021, pp 1645-1646, (ISBN: 978-1-7334190-3-1).   |
| <b>YANG Liu</b>      | PEMMASANI PRABAKARAN Rohith Saai, #CHEN Zilin, #LAI Ho Chi Joseph, #PARK Se Weon, #YANG Liu, HUANG Jianpan, CHAN Wai Yan Kannie, "Single-offset and multi-offset super-resolution for CEST MRI using deep transfer learning", <i>2022 Joint Annual Meeting ISMRM-ESMRMB &amp; ISMRT 31st Annual Meeting</i> , Hybrid, London, United Kingdom, 07-12 May 2022.  |
| <b>YANG Shengjie</b> | #YANG Shengjie, LAI Wai Chiu King, "A Novel Micropipette Robot for Cell Manipulation Based on Dielectrophoresis and Electroosmotic Vortex", <i>2021 IEEE International Conference on Robotics and Biomimetics, IEEE-ROBIO 2021</i> , Sanya, China, 27-31 December 2021, pp 24-29, (ISBN: 9781665405355,9781665405362).   |
| <b>ZHANG Zhong</b>   | #ZHANG Zhong, ZHENG Yu, #HU Zhe, LIU Lezhang, #ZHAO Xuan, LI Xiong, PAN Jia, "A Computational Framework for Robot Hand Design via Reinforcement Learning", <i>IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2021</i> , Online, Prague, Czech Republic, 27 September - 01 October 2021, pp 7216-7222, (ISBN: 9781665417143,9781665417150).                                |

Section A: Publications of PhD Students

|   |  |
|---|--|
| <b>ZHAO Xuan</b>  | #ZHANG Zhong, ZHENG Yu, #HU Zhe, LIU Lezhang, #ZHAO Xuan, LI Xiong, PAN Jia, "A Computational Framework for Robot Hand Design via Reinforcement Learning", <i>IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2021</i> , Online, Prague, Czech Republic, 27 September - 01 October 2021, pp 7216-7222, (ISBN: 9781665417143,9781665417150).  |
| <b>ZHOU Qianghui</b>  | #ZHOU Qianghui, LIU Lu, FENG Gang Gary, "Leader-Following Consensus of Heterogeneous Linear Multi-Agent Systems with Unbounded Distributed Transmission Delays", <i>2022 IEEE 17th International Conference on Control and Automation, ICCA 2022</i> , Naples, Italy, 27-30 June 2022, pp 885-890, (ISBN: 9781665495721).  |
| <b>ZHU Jingyi</b>   | #CHEN Jiangbo, ZHANG Yachao, #LI Xiaozhen, #ZHU Jingyi, LI Dengfeng, LI Shengliang, LEE Chun Sing, WANG Lidai, "Confocal Visible/NIR Photoacoustic Microscopy of Early-stage Tumor with Structural, Functional and Nanoprobe Contrasts", <i>2021 Conference on Lasers and Electro-Optics (CLEO) - Proceedings</i> , Virtual, United States, 09-14 May 2021, (ISBN: 9781665447928,9781943580910).                             |
| <b>Patents, agreements, assignments and companies</b>   |  |
| <b>LI Xiaoting</b>  | #LI Xiaoting, LAI Wai Chiu King, "Electromechanical Sensor, A Method of Producing Such Sensor And A Wearable Device Including Such Sensor", Licensing Agreement with Edu Tech, Hong Kong, 15 June 2022.  |
| <b>LIU Yiming</b>   | HUANG Ya, #YIU Chun Ki, #LIU Yiming, YU Xinge, "Multimode Haptic Patch And Multimodal Haptic Feedback Interface", Licensing Agreement with ICT & AI, Hong Kong, 26 October 2021.   |
| <b>SHI Shuo</b>   | HU Jinlian, GUO Chunxia, SI Yifan, #SHI Shuo, "一种水溶式单向导湿中药面膜及其制备方法", Licensing Agreement with Biotech, Hong Kong, 10 June 2022.  |
| <b>XING Liuxi</b>   | LIAO Pan, SUN Dong, #XING Liuxi, "Magnetically Controllable Robotic Device And Its Method of Making", Licensing Agreement with Deeptech (including PropTech), Hong Kong, 02 June 2022.   |
| <b>YANG Xiong</b>   | SHEN Yajing, LU Haojian, #YANG Xiong, Soft Body Robotic Device, Patent No.: US11,361,893, United States, 14 June 2022.   |
| <b>YIU Chun Ki</b>  | HUANG Ya, #YIU Chun Ki, #LIU Yiming, YU Xinge, "Multimode Haptic Patch And Multimodal Haptic Feedback Interface", Licensing Agreement with ICT & AI, Hong Kong, 26 October 2021.   |
| <b>All other outputs</b>  |  |
| <b>BI Cong</b>  | #BI Cong, <i>Cooperative Control of Heterogeneous Multi-Agent Systems with Unbounded Distributed Transmission Delays</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 15 July 2021.   |
| <b>CHAN Hiu Ling</b>  | #CHAN Hiu Ling, <i>Patch Clamp Technique with Integration of Automatic Cell Identification for Ion Channel Activities Recording and Cell Microinjection</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 01 April 2022.   |
|   | #CHAN Hiu Ling, #KONG Ka Wai, Innovation Award of City I&T Grand Challenge, Innovation Award of City I&T Grand Challenge, City I&T Grand Challenge, Innovation and Technology Commission, Hong Kong, 16 October 2021.  |
|   | LO Wing Cheong, LAI Wai Chiu King, CHOW Oi Wah Esther, #CHAN Hiu Ling, #KONG Ka Wai, Silver Medal at 2022 Inventions Geneva Evaluation Days, The project "Smart Wear Enabling the Visually Impaired and the Elderly the Ultimate Freedom to Explore the World" received the Silver Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention. |
|   | The project is developed by AI Guided Limited, a start-up funded by TSSSU, CityU., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022.   |
| #CHAN Hiu Ling, #KONG Ka Wai, Merit Awards of Hardware Journey Eco-System Contest 2021, Merit Awards of Hardware Journey Eco-System Contest 2021, Federation of Hong Kong Industries, 18 December 2021. |  |

## Section A: Publications of PhD Students

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| <b>CHEN Jiangbo</b>  | #CHEN Jiangbo, <i>Development and Application of Fast-Scanning Optical-resolution Photoacoustic Microscope</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 01 September 2021.   |
| <b>CHEN Zilin</b>    | #CHEN Zilin, CHAN Wai Yan Kannie, 2022 ISMRM Magna Cum Laude Merit Award, International Society for Magnetic Resonance in Medicine, May 2022.   |
| <b>FANG Peilin</b>   | #FANG Peilin, <i>Multi-Functional Microsystems for Cellular Engineering and Molecular Diagnostics</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 05 May 2022.  |
| <b>GUAN Zhangyan</b> | #GUAN Zhangyan, <i>Integrating Robotic Microinjection and Genome Editing for Mesenchymal Stem Cell Engineering</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 15 October 2021.   |
| <b>HE Jiahui</b>     | #HE Jiahui, <i>Skin-integrated Triboelectric Nanogenerator-based Tactile Sensors for Epidermal Electronics</i> , MPhil Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 August 2021.  |
| <b>HU Qiqiang</b>    | #HU Qiqiang, <i>Research on Soft Robot Design for Grasping and Climbing Scenarios</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 30 May 2022.  |
| <b>HU Zhe</b>        | #HU Zhe, <i>Learning Based Robotic Manipulation and Navigation</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 30 September 2021.   |
| <b>HUANG Wei</b>     | #HUANG Wei, <i>An Automated High-throughput Mechano-electrical Cell Cytometry for Cell Biophysical Screening</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.   |
| <b>JI Nan</b>        | #JI Nan, <i>Modeling and Analysis of Tonoarteriogram (TAG) for the Unobtrusive Measurements of Continuous Blood Pressure</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 August 2021.  |
| <b>JI Xianglin</b>   | #JI Xianglin, <i>Spatial and Temporal Profiling of Cellular Physiological and Genetic Heterogeneity</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 25 March 2022.  |
| <b>JIAO Yang</b>     | #JIAO Yang, <i>Investigation on Gene Editing of Tumor Cells Based on Advanced Engineering Transfection Method</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 13 June 2022.   |
| <b>LI Xiaoting</b>   | #LI Xiaoting, <i>Design and Fabrication of Textile Yarn-Based Strain Sensor Using Different Dimensional Nanomaterials for Multiscale Deformative Motion Detection</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 25 November 2021. |
| <b>LIN Zihong</b>    | #LIN Zihong, <i>The Development of Graphene Field-effect Transistor Biosensor for Pathogen Metabolites and Nucleic Acids Detection</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 November 2021.                                |
| <b>LIU Lelin</b>     | #LIU Lelin, <i>Development of Microfluidic Platform for Biosample Analysis and Mechanic-induced Cell Fusion</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 28 December 2021.   |
| <b>LIU Yi</b>        | #LIU Yi, <i>Phenotypic Characteristic of Cell Spreading, Migration, Traversing and Intracellular Cytoskeleton Behavior Utilizing Microengineered Structure</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 24 November 2021.        |
| <b>LIU Yiming</b>    | #LIU Yiming, <i>Electronic Skin as Wireless Human Machine Interfaces for Robotic VR</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 20 June 2022.   |
| <b>LUO Shuyang</b>   | #LUO Shuyang, <i>Consensus Control of Heterogeneous Multi-agent Systems with Time-delays</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 June 2022.  |
| <b>LUO Xuan</b>      | #LUO Xuan, <i>Hybrid Neuroengineering for the Development of Biomedical Intelligence</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 22 December 2021.  |

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| <p><b>SHI Shuo</b></p>   | <p><u>HU Jinlian</u>, #<u>SU Yupei</u>, #<u>SHI Shuo</u>, Bronze Medal at The 25th National Invention Exhibition, The project "Super-tough Artificial Spider Silk by Chemical Route" received the Bronze Medal at The 25th National Invention Exhibition. The National Invention Exhibition is the only large-scale science and technology exhibition with the theme of invention and innovation in China, and it is a major platform for the exhibition of invention achievements, promotion of innovation projects and technical trade exchanges.</p> <p>The project is developed by S3Tough Tech Co. Ltd, a HK Tech 300 start-up., The 25th National Invention Exhibition, China Association of Inventions, China, 12 December 2021.</p> <p><u>HU Jinlian</u>, <u>GUO Chunxia</u>, <u>SI Yifan</u>, #<u>SHI Shuo</u>, Silver Medal at 2022 Inventions Geneva Evaluation Days, The project "JanusLean electrospun nano fibre sheet mask" received the Silver Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022.</p>                                       |
| <p><b>SU Yupei</b></p>   | <p><u>HU Jinlian</u>, #<u>SU Yupei</u>, #<u>SHI Shuo</u>, Bronze Medal at The 25th National Invention Exhibition, The project "Super-tough Artificial Spider Silk by Chemical Route" received the Bronze Medal at The 25th National Invention Exhibition. The National Invention Exhibition is the only large-scale science and technology exhibition with the theme of invention and innovation in China, and it is a major platform for the exhibition of invention achievements, promotion of innovation projects and technical trade exchanges.</p> <p>The project is developed by S3Tough Tech Co. Ltd, a HK Tech 300 start-up., The 25th National Invention Exhibition, China Association of Inventions, China, 12 December 2021.</p> <p><u>HU Jinlian</u>, #<u>SU Yupei</u>, Silver Medal at 2022 Inventions Geneva Evaluation Days, The project "Super-tough Artificial Spider Silk" received the Silver Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention.</p> <p>The project is developed by S3Tough Tech Co. Ltd, a HK Tech 300 start-up., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, 20 March 2022.</p> |
| <p><b>WANG Yuan</b></p>  | <p>#<u>WANG Yuan</u>, <i>Vertically Aligned Biointerfaces for in Vitro and in Vivo Cellular Engineering</i>, PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 13 January 2022.</p>   |
| <p><b>WU Minghui</b></p> | <p>#<u>WU Minghui</u>, <i>Microfluidic Particle Accumulation Enabling Visual Quantification of Analytes for Point-of-Care Testing</i>, PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 26 April 2022.</p>   |
| <p><b>XING Liuxi</b></p> | <p>#<u>XING Liuxi</u>, <i>Magnetic Microrobots Actuated by Time-varying Magnetic Field: From Individual to Swarm</i>, PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 02 March 2022.</p>  |
| <p><b>YANG Xiong</b></p> | <p>#<u>YANG Xiong</u>, <i>Development of Magnetic Millirobots for Adaptive Interaction with Environment</i>, PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 26 April 2022.</p>   |
| <p><b>YANG Yajue</b></p> | <p>#<u>YANG Yajue</u>, <i>An Optimization-Oriented Framework to Autonomous Excavation</i>, PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.</p>   |
| <p><b>ZHAO Xi</b></p>    | <p>#<u>ZHAO Xi</u>, <i>Molecular Fishing Based Dissection of Epigenetic Markers in Live Cells</i>, PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 09 December 2021.</p>  |

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| <b>ZHAO Xuan</b>                      | # <a href="#">ZHAO Xuan</a> , <i>Generation of Safe and Efficient Motions for Robotic Arms in Human-Robot Collaboration</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.  |
| <b>ZHENG Liushuai</b>                 | # <a href="#">ZHENG Liushuai</a> , <i>Automated Three-dimensional Manipulation of Magnetic Microrobots</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 14 March 2022.  |
| <b>ZHONG Shangkun</b>                 | # <a href="#">ZHONG Shangkun</a> , <i>Efficient Visual Inertial Estimation and Control for Micro Aerial Vehicles</i> , PhD Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 21 December 2021.   |
| <b>DEPARTMENT OF COMPUTER SCIENCE</b> |  |
| <b>Journal publications</b>           |  |
| <b>ASHRAF Imran</b>                   | # <a href="#">MA Xiaoxue</a> , # <a href="#">ASHRAF Imran</a> , <a href="#">CHAN Wing Kwong</a> , "Davida: A Decentralization Approach to Localizing Transaction Sequences for Debugging Transactional Atomicity Violations", <i>IEEE Transactions on Reliability</i> , 07 June 2022, doi: <a href="https://doi.org/10.1109/TR.2022.3176680">https://doi.org/10.1109/TR.2022.3176680</a> .   |
|                                       | # <a href="#">MEI Xiupei</a> , # <a href="#">ASHRAF Imran</a> , # <a href="#">MA Xiaoxue</a> , # <a href="#">ZHANG Hao</a> , # <a href="#">WEI Zhengyuan</a> , # <a href="#">WANG Haipeng</a> , <a href="#">CHAN Wing Kwong</a> , "Execution Repair for Spark Programs by Active Maintenance of Partition Dependency", <i>IEEE Access</i> , 9, 16 July 2021, pp 101555-101573, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3097823">https://doi.org/10.1109/ACCESS.2021.3097823</a> .  |
| <b>CAO Jingchao</b>                   | # <a href="#">CAO Jingchao</a> , <a href="#">WANG Ran</a> , <a href="#">JIA Yuheng</a> , <a href="#">ZHANG Xinfeng</a> , <a href="#">WANG Shiqi</a> , <a href="#">KWONG Tak Wu Sam</a> , "No-reference image quality assessment for contrast-changed images via a semi-supervised robust PCA model", <i>Information Sciences</i> , 574, 23 July 2021, pp 640-652, doi: <a href="https://doi.org/10.1016/j.ins.2021.07.052">https://doi.org/10.1016/j.ins.2021.07.052</a> .   |
| <b>CHEN Baoliang</b>                  | # <a href="#">KONG Chengqi</a> , # <a href="#">CHEN Baoliang</a> , <a href="#">LI Haoliang</a> , <a href="#">WANG Shiqi</a> , <a href="#">ROCHA Anderson</a> , <a href="#">KWONG Tak Wu Sam</a> , "Detect and Locate: Exposing Face Manipulation by Semantic- and Noise-level Telltales", <i>IEEE Transactions on Information Forensics and Security</i> , 17, 28 April 2022, pp 1741-1756, doi: <a href="https://doi.org/10.1109/TIFS.2022.3169921">https://doi.org/10.1109/TIFS.2022.3169921</a> .   |
|                                       | # <a href="#">CHEN Baoliang</a> , # <a href="#">ZHU Lingyu</a> , <a href="#">LI Guo</a> , <a href="#">LU Fangbo</a> , <a href="#">FAN Hongfei</a> , <a href="#">WANG Shiqi</a> , "Learning Generalized Spatial-Temporal Deep Feature Representation for No-Reference Video Quality Assessment", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 32(4), April 2022, pp 1903-1916, doi: <a href="https://doi.org/10.1109/TCSVT.2021.3088505">https://doi.org/10.1109/TCSVT.2021.3088505</a> .  |
|                                       | # <a href="#">ZHU Lingyu</a> , <a href="#">YANG Wenhan</a> , # <a href="#">CHEN Baoliang</a> , <a href="#">LU Fangbo</a> , <a href="#">WANG Shiqi</a> , "Enlightening Low-light Images with Dynamic Guidance for Context Enrichment", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 26 January 2022, doi: <a href="https://doi.org/10.1109/TCSVT.2022.3146731">https://doi.org/10.1109/TCSVT.2022.3146731</a> .  |
| <b>CHEN Peilin</b>                    | # <a href="#">CHEN Peilin</a> , <a href="#">YANG Wenhan</a> , # <a href="#">WANG Meng</a> , <a href="#">SUN Long</a> , <a href="#">HU Kangkang</a> , <a href="#">WANG Shiqi</a> , "Compressed Domain Deep Video Super-Resolution", <i>IEEE Transactions on Image Processing</i> , 30, 09 August 2021, pp 7156-7169, doi: <a href="https://doi.org/10.1109/TIP.2021.3101826">https://doi.org/10.1109/TIP.2021.3101826</a> .   |
| <b>CHEN Tao</b>                       | # <a href="#">XIAO Zhen</a> , # <a href="#">CHEN Tao</a> , <a href="#">LIU Yang</a> , # <a href="#">LI Jiao</a> , <a href="#">LI Zhenjiang</a> , "Keystroke Recognition with the Tapping Sound Recorded by Mobile Phone Microphones", <i>IEEE Transactions on Mobile Computing</i> , 21 December 2021, doi: <a href="https://doi.org/10.1109/TMC.2021.3137229">https://doi.org/10.1109/TMC.2021.3137229</a> .  |
| <b>CHEN Xingjian</b>                  | # <a href="#">MENG Lingkuan</a> , <a href="#">CHAN Wai-Sum</a> , # <a href="#">HUANG Lei</a> , # <a href="#">LIU Linjing</a> , # <a href="#">CHEN Xingjian</a> , # <a href="#">ZHANG Weitong</a> , # <a href="#">WANG Fuzhou</a> , # <a href="#">CHENG Ke</a> , <a href="#">SUN Hongyan</a> , <a href="#">WONG Ka Chun</a> , "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i> , 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a> . |
|                                       | # <a href="#">ZHENG Zetian</a> , # <a href="#">XIE Weidun</a> , # <a href="#">CHEN Xingjian</a> , # <a href="#">WANG Fuzhou</a> , # <a href="#">HUANG Lei</a> , <a href="#">LI Xiangtao</a> , <a href="#">LIN Qiuzhen</a> , <a href="#">WONG Ka Chun</a> , "Subclass-specific Prognosis and Treatment Efficacy Inference in Head and Neck Squamous Carcinoma", <i>IEEE Journal of Biomedical and Health Informatics</i> , 19 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3168289">https://doi.org/10.1109/JBHI.2022.3168289</a> .  |
|                                       | # <a href="#">CHEN Xingjian</a> , <a href="#">ZHU Zifan</a> , # <a href="#">ZHANG Weitong</a> , # <a href="#">WANG Yuchen</a> , # <a href="#">WANG Fuzhou</a> , <a href="#">YANG Jianyi</a> , <a href="#">WONG Ka Chun</a> , "Human Disease Prediction from Microbiome Data by Multiple Feature Fusion and Deep Learning", <i>iScience</i> , 25(4), 16 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104081">https://doi.org/10.1016/j.isci.2022.104081</a> .  |

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|-----------------------|---|
|                       | # <a href="#">LIN Jiecong</a> , # <a href="#">HUANG Lei</a> , # <a href="#">CHEN Xingjian</a> , ZHANG Shixiong, WONG Ka Chun, "DeepMotifSyn: a deep learning approach to synthesize heterodimeric DNA motifs", <i>Briefings in Bioinformatics</i> , 23(1), 14 September 2021, doi: <a href="https://doi.org/10.1093/bib/bbab334">https://doi.org/10.1093/bib/bbab334</a> .  |
| <b>CHEN Xinhong</b>   | # <a href="#">CHEN Huaguo</a> , YANG Jianjun, # <a href="#">CHEN Xinhong</a> , "A convolution-based deep learning approach for estimating compressive strength of fiber reinforced concrete at elevated temperatures", <i>Construction and Building Materials</i> , 313, 10 November 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.125437">https://doi.org/10.1016/j.conbuildmat.2021.125437</a> .                                 |
|                       | LI Zongxi, # <a href="#">CHEN Xinhong</a> , XIE Haoran, LI Qing, TAO Xiaohui, CHENG Gary, "EmoChannel-SA: exploring emotional dependency towards classification task with self-attention mechanism", <i>World Wide Web</i> , 24(6), 06 October 2021, pp 2049–2070, doi: <a href="https://doi.org/10.1007/s11280-021-00957-5">https://doi.org/10.1007/s11280-021-00957-5</a> .   |
|                       | # <a href="#">YE Luyao</a> , WANG Zezhong, # <a href="#">CHEN Xinhong</a> , WANG Jianping, WU Kui, LU Kejie, "GSAN: Graph Self-Attention Network for Learning Spatial–Temporal Interaction Representation in Autonomous Driving", <i>IEEE Internet of Things Journal</i> , 9(12), 05 July 2021, pp 9190–9204, doi: <a href="https://doi.org/10.1109/JIOT.2021.3093523">https://doi.org/10.1109/JIOT.2021.3093523</a> .                              |
| <b>CHEN Yufei</b>     | # <a href="#">LI Xinyan</a> , # <a href="#">CHEN Yufei</a> , WANG Cong, SHEN Chao, "When Deep Learning Meets Differential Privacy: Privacy, Security, and More", <i>IEEE Network</i> , 35(6), November 2021, pp 148–155, doi: <a href="https://doi.org/10.1109/MNET.001.2100256">https://doi.org/10.1109/MNET.001.2100256</a> .   |
| <b>CHEN Zhongying</b> | # <a href="#">CHEN Zhongying</a> , WANG Jun, HAN Qing-Long, "Event-Triggered Cardinality-Constrained Cooling and Electrical Load Dispatch Based on Collaborative Neurodynamic Optimization", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 31 March 2022, doi: <a href="https://doi.org/10.1109/TNNLS.2022.3160645">https://doi.org/10.1109/TNNLS.2022.3160645</a> .   |
|                       | # <a href="#">CHEN Zhongying</a> , WANG Jun, HAN Qing-Long, "Optimal Chiller Loading Based on Collaborative Neurodynamic Optimization", <i>IEEE Transactions on Industrial Informatics</i> , 03 June 2022, doi: <a href="https://doi.org/10.1109/TII.2022.3180080">https://doi.org/10.1109/TII.2022.3180080</a> .   |
| <b>DU Hao</b>         | YU Hongyuan, PENG Houwen, HUANG Yan, FU Jianlong, # <a href="#">DU Hao</a> , WANG Liang, LING Haibin, "Cyclic Differentiable Architecture Search", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 23 February 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3153065">https://doi.org/10.1109/TPAMI.2022.3153065</a> .   |
|                       | # <a href="#">HAN Fangzhou</a> , # <a href="#">WANG Can</a> , # <a href="#">DU Hao</a> , LIAO Jing, "Deep Portrait Lighting Enhancement with 3D Guidance", <i>Computer Graphics Forum</i> , 40(4), 15 July 2021, pp 177–188, doi: <a href="https://doi.org/10.1111/cgf.14350">https://doi.org/10.1111/cgf.14350</a> .   |
| <b>DU Hongchao</b>    | ZHANG Yuhao, JIA Zhiping, # <a href="#">DU Hongchao</a> , XUE Runzhen, SHEN Zhaoyan, SHAO Zili, "A Practical Highly Paralleled ReRAM-based DNN Accelerator by Reusing Weight Pattern Repetitions", <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 41(4), April 2022, pp 922–935, doi: <a href="https://doi.org/10.1109/TCAD.2021.3071116">https://doi.org/10.1109/TCAD.2021.3071116</a> .                   |
| <b>DU Yuefeng</b>     | <a href="#">DUAN Huayi</a> , # <a href="#">DU Yuefeng</a> , # <a href="#">ZHENG Leqian</a> , WANG Cong, AU Man Ho, WANG Qian, "Towards Practical Auditing of Dynamic Data in Decentralized Storage", <i>IEEE Transactions on Dependable and Secure Computing</i> , 13 January 2022, doi: <a href="https://doi.org/10.1109/TDSC.2022.3142611">https://doi.org/10.1109/TDSC.2022.3142611</a> .  |
| <b>FAN Chaojie</b>    | # <a href="#">CHENG Baoquan</a> , # <a href="#">FAN Chaojie</a> , FU Hanliang, HUANG Jianling, CHEN Huihua, <a href="#">LUO Xiaowei</a> , "Measuring and Computing Cognitive Statuses of Construction Workers Based on Electroencephalogram: A Critical Review", <i>IEEE Transactions on Computational Social Systems</i> , 07 April 2022, doi: <a href="https://doi.org/10.1109/TCSS.2022.3158585">https://doi.org/10.1109/TCSS.2022.3158585</a> . |
|                       | # <a href="#">FAN Chaojie</a> , PENG Yong, PENG Shuangling, ZHANG Honghao, WU Yuankai, <a href="#">KWONG Tak Wu Sam</a> , "Detection of Train Driver Fatigue and Distraction Based on Forehead EEG: A Time-Series Ensemble Learning Method", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 18 November 2021, doi: <a href="https://doi.org/10.1109/TITS.2021.3125737">https://doi.org/10.1109/TITS.2021.3125737</a> .            |
|                       | # <a href="#">FAN Chaojie</a> , HU Jin, HUANG Shufang, PENG Yong, <a href="#">KWONG Tak Wu Sam</a> , "EEG-TNet: An End-To-End Brain Computer Interface Framework for Mental Workload Estimation", <i>Frontiers in Neuroscience</i> , 16, 25 April 2022, doi: <a href="https://doi.org/10.3389/fnins.2022.869522">https://doi.org/10.3389/fnins.2022.869522</a> .  |
| <b>FENG Shuo</b>      | # <a href="#">FENG Shuo</a> , <a href="#">KEUNG Wai Jacky</a> , ZHANG Peichang, # <a href="#">ZHANG Miao</a> , XIAO Yan, "The impact of the distance metric and measure on SMOTE-based techniques in software defect  |

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|                                  | prediction", <i>Information and Software Technology</i> , 142, 16 October 2021, doi: <a href="https://doi.org/10.1016/j.infsof.2021.106742">https://doi.org/10.1016/j.infsof.2021.106742</a> .   |
|                                  | # <a href="#">YANG Zhen</a> , <a href="#">KEUNG Wai Jacky</a> , <a href="#">#KABIR Md Alamgir</a> , YU Xiao, TANG Yutian, <a href="#">#ZHANG Miao</a> , <a href="#">#FENG Shuo</a> , "AComNN: Attention enhanced Compound Neural Network for financial time-series forecasting with cross-regional features", <i>Applied Soft Computing</i> , 111, 01 July 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.107649">https://doi.org/10.1016/j.asoc.2021.107649</a> .  |
| <b>FENG Yinglan</b>              | # <a href="#">FENG Yinglan</a> , FENG Liang, <a href="#">KWONG Tak Wu Sam</a> , TAN Kay Chen, "A Multi-Variation Multifactorial Evolutionary Algorithm for Large-Scale Multi-Objective Optimization", <i>IEEE Transactions on Evolutionary Computation</i> , 26(2), 13 October 2021, pp 248-262, doi: <a href="https://doi.org/10.1109/TEVC.2021.3119933">https://doi.org/10.1109/TEVC.2021.3119933</a> .  |
| <b>GNANHA Tohokantche Aurele</b> | # <a href="#">GNANHA Tohokantche Aurele</a> , CAO Wenming, MAO Xudong, WU Si, <a href="#">WONG Hau San</a> , LI Qing, " $\alpha\beta$ -GAN: Robust Generative Adversarial Networks", <i>Information Sciences</i> , 593, 04 February 2022, pp 177-200, doi: <a href="https://doi.org/10.1016/j.ins.2022.01.073">https://doi.org/10.1016/j.ins.2022.01.073</a> .   |
|                                  | # <a href="#">GNANHA Tohokantche Aurele</a> , CAO Wenming, MAO Xudong, WU Si, <a href="#">WONG Hau San</a> , LI Qing, "The residual generator: An improved divergence minimization framework for GAN", <i>Pattern Recognition</i> , 121, 02 August 2021, doi: <a href="https://doi.org/10.1016/j.patcog.2021.108222">https://doi.org/10.1016/j.patcog.2021.108222</a> .  |
| <b>GUO Wentong</b>               | SHU Dingbo, CHEN Feng, <a href="#">#GUO Wentong</a> , DING Jianping, DAI Siyu, "Acute changes in knee cartilage and meniscus following long-distance running in habituate runners: a systematic review on studies using quantitative magnetic resonance imaging", <i>Skeletal Radiology</i> , 51(7), 02 December 2021, pp 1333–1345, doi: <a href="https://doi.org/10.1007/s00256-021-03943-0">https://doi.org/10.1007/s00256-021-03943-0</a> .  |
|                                  | SHU Dingbo, CHEN Feng, ZHANG Chuan, <a href="#">#GUO Wentong</a> , DAI Siyu, "Environmental tobacco smoke and carotid intima-media thickness in healthy children and adolescents: A systematic review", <i>Open Heart</i> , 9(1), 06 January 2022, doi: <a href="https://doi.org/10.1136/openhrt-2021-001790">https://doi.org/10.1136/openhrt-2021-001790</a> .  |
| <b>HU Yao</b>                    | # <a href="#">XUE Xiaoming</a> , YANG Cuie, <a href="#">#HU Yao</a> , ZHANG Kai, CHEUNG Yiu-Ming, <a href="#">SONG Lingqi</a> , TAN Kay Chen, "Evolutionary Sequential Transfer Optimization for Objective-Heterogeneous Problems", <i>IEEE Transactions on Evolutionary Computation</i> , 09 December 2021, doi: <a href="https://doi.org/10.1109/TEVC.2021.3133874">https://doi.org/10.1109/TEVC.2021.3133874</a> .  |
| <b>HUANG Endai</b>               | <a href="#">GAN Haiming</a> , OU Mingqiang, <a href="#">#HUANG Endai</a> , XU Chengguo, LI Shiqing, LI Jiping, <a href="#">LIU Kai</a> , XUE Yueju, "Automated detection and analysis of social behaviors among preweaning piglets using key point-based spatial and temporal features", <i>Computers and Electronics in Agriculture</i> , 188, 05 August 2021, doi: <a href="https://doi.org/10.1016/j.compag.2021.106357">https://doi.org/10.1016/j.compag.2021.106357</a> .   |
|                                  | # <a href="#">MAO Axiu</a> , <a href="#">#HUANG Endai</a> , <a href="#">GAN Haiming</a> , PARKES Rebecca Sarah Victoria, <a href="#">XU Weitao</a> , <a href="#">LIU Kai</a> , "Cross-Modality Interaction Network for Equine Activity Recognition Using Imbalanced Multi-Modal Data", <i>Sensors</i> , 21(17), 29 August 2021, doi: <a href="https://doi.org/10.3390/s21175818">https://doi.org/10.3390/s21175818</a> .   |
|                                  | # <a href="#">HUANG Endai</a> , <a href="#">#MAO Axiu</a> , <a href="#">GAN Haiming</a> , CEBALLOS Maria Camila, PARSONS Thomas D., XUE Yueju, <a href="#">LIU Kai</a> , "Center clustering network improves piglet counting under occlusion", <i>Computers and Electronics in Agriculture</i> , 189, 03 September 2021, doi: <a href="https://doi.org/10.1016/j.compag.2021.106417">https://doi.org/10.1016/j.compag.2021.106417</a> .  |
| <b>HUANG Hongming</b>            | LIU Libin, GAO Chengxi, WANG Peng, <a href="#">#HUANG Hongming</a> , <a href="#">#LI Jiamin</a> , XU Hong, ZHANG Wei, "Bottleneck-Aware Non-Clairvoyant Coflow Scheduling with Fai", <i>IEEE Transactions on Cloud Computing</i> , 16 November 2021, doi: <a href="https://doi.org/10.1109/TCC.2021.3128360">https://doi.org/10.1109/TCC.2021.3128360</a> .  |
| <b>HUANG Jialu</b>               | # <a href="#">HUANG Jialu</a> , <a href="#">LIAO Jing</a> , TAN Zhifeng, <a href="#">KWONG Tak Wu Sam</a> , "Multi-Density Sketch-to-Image Translation Network", <i>IEEE Transactions on Multimedia</i> , 14 September 2021, doi: <a href="https://doi.org/10.1109/TMM.2021.3111501">https://doi.org/10.1109/TMM.2021.3111501</a> .  |
| <b>HUANG Lei</b>                 | # <a href="#">MENG Lingkuan</a> , CHAN Wai-Sum, <a href="#">#HUANG Lei</a> , <a href="#">#LIU Linjing</a> , <a href="#">#CHEN Xingjian</a> , <a href="#">#ZHANG Weitong</a> , <a href="#">#WANG Fuzhou</a> , <a href="#">#CHENG Ke</a> , SUN Hongyan, <a href="#">WONG Ka Chun</a> , "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i> , 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a> . |

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|                         | <p>#ZHENG Zetian, #XIE Weidun, #CHEN Xingjian, #WANG Fuzhou, #HUANG Lei, LI Xiangtao, LIN Qiuzhen, <u>WONG Ka Chun</u>, "Subclass-specific Prognosis and Treatment Efficacy Inference in Head and Neck Squamous Carcinoma", <i>IEEE Journal of Biomedical and Health Informatics</i>, 19 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3168289">https://doi.org/10.1109/JBHI.2022.3168289</a>.</p> <p>#XIE Weidun, #ZHENG Zetian, #ZHANG Weitong, #HUANG Lei, LIN Qiuzhen, <u>WONG Ka Chun</u>, "SRG-vote: Predicting miRNA-gene relationships via embedding and LSTM ensemble", <i>IEEE Journal of Biomedical and Health Informatics</i>, 26 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3169542">https://doi.org/10.1109/JBHI.2022.3169542</a>.</p> <p>LI Xiangtao, LI Shaochuan, #HUANG Lei, ZHANG Shixiong, <u>WONG Ka Chun</u>, "High-throughput single-cell RNA-seq data imputation and characterization with surrogate-assisted automated deep learning", <i>Briefings in Bioinformatics</i>, 23(1), 22 September 2021, doi: <a href="https://doi.org/10.1093/bib/bbab368">https://doi.org/10.1093/bib/bbab368</a>.</p> <p>#LIN Jiecong, #HUANG Lei, #CHEN Xingjian, ZHANG Shixiong, <u>WONG Ka Chun</u>, "DeepMotifSyn: a deep learning approach to synthesize heterodimeric DNA motifs", <i>Briefings in Bioinformatics</i>, 23(1), 14 September 2021, doi: <a href="https://doi.org/10.1093/bib/bbab334">https://doi.org/10.1093/bib/bbab334</a>.</p> <p>#HUANG Lei, ZHOU Jingyi, #LIN Jiecong, DENG Shengli, "View analysis of personal information leakage and privacy protection in big data era—based on Q method", <i>Aslib Journal of Information Management</i>, 02 November 2021, doi: <a href="https://doi.org/10.1108/AJIM-05-2021-0144">https://doi.org/10.1108/AJIM-05-2021-0144</a>.</p> <p>#HUANG Lei, #LIN Jiecong, LI Xiangtao, <u>SONG Lingqi</u>, #ZHENG Zetian, <u>WONG Ka Chun</u>, "EGFI: drug-drug interaction extraction and generation with fusion of enriched entity and sentence information", <i>Briefings in Bioinformatics</i>, 23(1), 12 November 2021, doi: <a href="https://doi.org/10.1093/bib/bbab451">https://doi.org/10.1093/bib/bbab451</a>.</p> |
| <b>HUANG Zhian</b>      | <p>HUANG Yu-An, #HUANG Zhian, LI Jian-Qiang, YOU Zhu-Hong, WANG Lei, YI Hai-Cheng, YU Chang-Qing, "GBDR: a Bayesian model for precise prediction of pathogenic microorganisms using 16S rRNA gene sequences", <i>BMC Genomics</i>, 22(Supplement 1), 16 March 2022, doi: <a href="https://doi.org/10.1186/s12864-022-08423-w">https://doi.org/10.1186/s12864-022-08423-w</a>.</p>   |
| <b>JIANG Peipei</b>     | <p>#JIANG Peipei, WANG Qian, HUANG Muqi, <u>WANG Cong</u>, LI Qi, SHEN Chao, REN Kui, "Building In-the-Cloud Network Functions: Security and Privacy Challenges", <i>Proceedings of the IEEE</i>, 109(12), 08 December 2021, pp 1888-1919, doi: <a href="https://doi.org/10.1109/JPROC.2021.3127277">https://doi.org/10.1109/JPROC.2021.3127277</a>.</p>  |
| <b>JIAO Qianfen</b>     | <p>#WU Wenhao, #JIAO Qianfen, <u>WONG Hau San</u>, LI Gaozhe, WU Si, "Learning scene-adaptive pseudo annotations for pedestrian detection in semi-supervised scenarios", <i>Knowledge-Based Systems</i>, 243, 18 February 2022, doi: <a href="https://doi.org/10.1016/j.knosys.2022.108439">https://doi.org/10.1016/j.knosys.2022.108439</a>.</p> <p>CAO Wenming, ZHANG Zhongfan, LI Rui, LIU Cheng, #JIAO Qianfen, YU Zhiwen, <u>WONG Hau San</u>, "Unsupervised discriminative feature learning via finding a clustering-friendly embedding space", <i>Pattern Recognition</i>, 129, 11 May 2022, doi: <a href="https://doi.org/10.1016/j.patcog.2022.108768">https://doi.org/10.1016/j.patcog.2022.108768</a>.</p>   |
| <b>JIN Jing</b>         | <p>#JIN Jing, HOU Junhui, "Occlusion-aware Unsupervised Learning of Depth from 4-D Light Fields", <i>IEEE Transactions on Image Processing</i>, 02 March 2022, doi: <a href="https://doi.org/10.1109/TIP.2022.3154288">https://doi.org/10.1109/TIP.2022.3154288</a>.</p>  |
| <b>KABIR Md Alamgir</b> | <p>#YANG Zhen, KEUNG Wai Jacky, #KABIR Md Alamgir, YU Xiao, TANG Yutian, #ZHANG Miao, #FENG Shuo, "AComNN: Attention enhanced Compound Neural Network for financial time-series forecasting with cross-regional features", <i>Applied Soft Computing</i>, 111, 01 July 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.107649">https://doi.org/10.1016/j.asoc.2021.107649</a>.</p> <p>#KABIR Md Alamgir, KEUNG Wai Jacky, TURHAN Burak, BENNIN Kwabena Ebo, "Inter-release defect prediction with feature selection using temporal chunk-based learning: An empirical study", <i>Applied Soft Computing</i>, 113(Part A), 09 September 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.107870">https://doi.org/10.1016/j.asoc.2021.107870</a>.</p>  |
| <b>KONG Chenqi</b>      | <p>#KONG Chenqi, #CHEN Baoliang, LI Haoliang, <u>WANG Shiqi</u>, ROCHA Anderson, <u>KWONG Tak Wu Sam</u>, "Detect and Locate: Exposing Face Manipulation by Semantic- and Noise-level Telltales", <i>IEEE Transactions on Information Forensics and Security</i>, 17, 28 April 2022, pp 1741-1756, doi: <a href="https://doi.org/10.1109/TIFS.2022.3169921">https://doi.org/10.1109/TIFS.2022.3169921</a>.</p>  |



Section A: Publications of PhD Students

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|----------------------|---|
| <b>LAN Hui</b>       | # <a href="#">LAN Hui</a> , # <a href="#">LIU Ziquan</a> , HSHAO Janet H, YU Dan, <a href="#">CHAN Antoni Bert</a> , "Clustering Hidden Markov Models With Variational Bayesian Hierarchical EM", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 31 August 2021, doi: <a href="https://doi.org/10.1109/TNNLS.2021.3105570">https://doi.org/10.1109/TNNLS.2021.3105570</a> .   |
| <b>LI Jiamin</b>     | LIU Libin, GAO Chengxi, WANG Peng, # <a href="#">HUANG Hongming</a> , # <a href="#">LI Jiamin</a> , XU Hong, ZHANG Wei, "Bottleneck-Aware Non-Clairvoyant Coflow Scheduling with Fai", <i>IEEE Transactions on Cloud Computing</i> , 16 November 2021, doi: <a href="https://doi.org/10.1109/TCC.2021.3128360">https://doi.org/10.1109/TCC.2021.3128360</a> .   |
| <b>LI Jiao</b>       | # <a href="#">XIAO Zhen</a> , # <a href="#">CHEN Tao</a> , <a href="#">LIU Yang</a> , # <a href="#">LI Jiao</a> , <a href="#">LI Zhenjiang</a> , "Keystroke Recognition with the Tapping Sound Recorded by Mobile Phone Microphones", <i>IEEE Transactions on Mobile Computing</i> , 21 December 2021, doi: <a href="https://doi.org/10.1109/TMC.2021.3137229">https://doi.org/10.1109/TMC.2021.3137229</a> .   |
| <b>LI Tan</b>        | # <a href="#">LI Tan</a> , <a href="#">SONG Lingqi</a> , "Privacy-Preserving Communication-Efficient Federated Multi-Armed Bandits", <i>IEEE Journal on Selected Areas in Communications</i> , 40(3), 12 January 2022, pp 773-787, doi: <a href="https://doi.org/10.1109/JSAC.2022.3142374">https://doi.org/10.1109/JSAC.2022.3142374</a> .   |
| <b>LI Xinqi</b>      | # <a href="#">LI Xinqi</a> , <a href="#">WANG Jun</a> , <a href="#">KWONG Tak Wu Sam</a> , "Hash Bit Selection Based on Collaborative Neurodynamic Optimization", <i>IEEE Transactions on Cybernetics</i> , 20 August 2021, doi: <a href="https://doi.org/10.1109/TCYB.2021.3102941">https://doi.org/10.1109/TCYB.2021.3102941</a> .  |
| <b>LI Xinyan</b>     | # <a href="#">LI Xinyan</a> , # <a href="#">CHEN Yufei</a> , <a href="#">WANG Cong</a> , SHEN Chao, "When Deep Learning Meets Differential Privacy: Privacy, Security, and More", <i>IEEE Network</i> , 35(6), November 2021, pp 148-155, doi: <a href="https://doi.org/10.1109/MNET.001.2100256">https://doi.org/10.1109/MNET.001.2100256</a> .  |
| <b>LI Yinhu</b>      | # <a href="#">LI Yinhu</a> , <a href="#">JIANG Yiqi</a> , LI Zhengtu, YU Yonghan, CHEN Jiaying, JIA Wenlong, KAOW NG Yen, YE Feng, <a href="#">LI Shuaicheng</a> , SHEN Bairong, "Both simulation and sequencing data reveal coinfections with multiple SARS-CoV-2 variants in the COVID-19 pandemic", <i>Computational and Structural Biotechnology Journal</i> , 20, 18 March 2022, pp 1389-1401, doi: <a href="https://doi.org/10.1016/j.csbj.2022.03.011">https://doi.org/10.1016/j.csbj.2022.03.011</a> .<br><br>ZENG Qiang, YANG Zhenyu, WANG Fei, LI Dongfang, LIU Yanhong, WANG Daxi, ZHAO Xiaolan, # <a href="#">LI Yinhu</a> , WANG Yu, FENG Xin, <a href="#">CHEN Jiaying</a> , LI Yongli, ZHENG Yuejie, KENNEY Toby, GU Hong, FENG Su, <a href="#">LI Shuaicheng</a> , HE Yuan, XU Ximing, DAI Wenkui, "Association between metabolic status and gut microbiome in obese populations", <i>Microbial Genomics</i> , 7(8), 06 August 2021, doi: <a href="https://doi.org/10.1099/mgen.0.000639">https://doi.org/10.1099/mgen.0.000639</a> . |
| <b>LI Yishu</b>      | # <a href="#">MA Xiaoxue</a> , <a href="#">KEUNG Wai Jacky</a> , # <a href="#">YANG Zhen</a> , YU Xiao, # <a href="#">LI Yishu</a> , # <a href="#">ZHANG Hao</a> , "CASMS: Combining clustering with attention semantic model for identifying security bug reports", <i>Information and Software Technology</i> , 147, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.infsof.2022.106906">https://doi.org/10.1016/j.infsof.2022.106906</a> .  |
| <b>LIAN Rui</b>      | # <a href="#">LIAN Rui</a> , # <a href="#">ZHOU Anxin</a> , ZHENG Yifeng, "Towards secure and trustworthy crowdsourcing: challenges, existing landscape, and future directions", <i>Wireless Networks</i> , 07 June 2022, doi: <a href="https://doi.org/10.1007/s11276-022-03015-8">https://doi.org/10.1007/s11276-022-03015-8</a> .  |
| <b>LIAO Xingran</b>  | SHEN Wenhao, ZHOU Mingliang, # <a href="#">LIAO Xingran</a> , JIA Wei Jia, XIANG Tao, FANG Bin, SHANG Zhaowei, "An End-to-End No-Reference Video Quality Assessment Method With Hierarchical Spatiotemporal Feature Representation", <i>IEEE Transactions on Broadcasting</i> , 11 April 2022, doi: <a href="https://doi.org/10.1109/TBC.2022.3164332">https://doi.org/10.1109/TBC.2022.3164332</a> .   |
| <b>LIN Chengdong</b> | # <a href="#">LIN Chengdong</a> , LI Xinlin, <a href="#">LI Zhenjiang</a> , <a href="#">HOU Junhui</a> , "Finding Stars from Fireworks: Improving Non-Cooperative Iris Tracking", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 11 March 2022, doi: <a href="https://doi.org/10.1109/TCSVT.2022.3158969">https://doi.org/10.1109/TCSVT.2022.3158969</a> .<br><br><a href="#">LIU Yang</a> , # <a href="#">LIN Chengdong</a> , <a href="#">LI Zhenjiang</a> , "WR-Hand: Wearable Armband Can Track User's Hand", <i>Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies</i> , 5(3), 14 September 2021, doi: <a href="https://doi.org/10.1145/3478112">https://doi.org/10.1145/3478112</a> .  |
| <b>LIN Jiaying</b>   | # <a href="#">LIN Jiaying</a> , # <a href="#">TAN Xin</a> , XU Ke, MA Lizhuang, <a href="#">LAU Rynson W H</a> , "Frequency-aware Camouflaged Object Detection", <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 30 June 2022, doi: <a href="https://doi.org/10.1145/3545609">https://doi.org/10.1145/3545609</a> .<br><br># <a href="#">TAN Xin</a> , # <a href="#">LIN Jiaying</a> , XU Ke, CHEN Pan, MA Lizhuang, <a href="#">LAU Rynson W H</a> , "Mirror Detection With the Visual Chirality Cue", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 10 June 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3181030">https://doi.org/10.1109/TPAMI.2022.3181030</a> .   |
| <b>LIN Jiecong</b>   | # <a href="#">LIN Jiecong</a> , # <a href="#">HUANG Lei</a> , # <a href="#">CHEN Xingjian</a> , ZHANG Shixiong, <a href="#">WONG Ka Chun</a> , "DeepMotifSyn: a deep learning approach to synthesize heterodimeric DNA motifs",   |

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|                    | <p><i>Briefings in Bioinformatics</i>, 23(1), 14 September 2021, doi: <a href="https://doi.org/10.1093/bib/bbab334">https://doi.org/10.1093/bib/bbab334</a>.</p> <p>#<a href="#">HUANG Lei</a>, <a href="#">ZHOU Jingyi</a>, #<a href="#">LIN Jiecong</a>, <a href="#">DENG Shengli</a>, "View analysis of personal information leakage and privacy protection in big data era—based on Q method", <i>Aslib Journal of Information Management</i>, 02 November 2021, doi: <a href="https://doi.org/10.1108/AJIM-05-2021-0144">https://doi.org/10.1108/AJIM-05-2021-0144</a>.</p> <p>#<a href="#">HUANG Lei</a>, #<a href="#">LIN Jiecong</a>, <a href="#">LI Xiangtao</a>, <a href="#">SONG Lingqi</a>, #<a href="#">ZHENG Zetian</a>, <a href="#">WONG Ka Chun</a>, "EGFI: drug-drug interaction extraction and generation with fusion of enriched entity and sentence information", <i>Briefings in Bioinformatics</i>, 23(1), 12 November 2021, doi: <a href="https://doi.org/10.1093/bib/bbab451">https://doi.org/10.1093/bib/bbab451</a>.</p>   |
| <b>LIU Hui</b>     | <p>#<a href="#">LIU Hui</a>, <a href="#">JIA Yuheng</a>, <a href="#">HOU Junhui</a>, <a href="#">ZHANG Qingfu</a>, "Global-Local Balanced Low-Rank Approximation of Hyperspectral Images for Classification", <i>IEEE Transactions on Circuits and Systems for Video Technology</i>, 32(4), 07 July 2021, pp 2013-2024, doi: <a href="https://doi.org/10.1109/TCSVT.2021.3095250">https://doi.org/10.1109/TCSVT.2021.3095250</a>.</p>  |
| <b>LIU Linjing</b> | <p>#<a href="#">MENG Lingkuan</a>, <a href="#">CHAN Wai-Sum</a>, #<a href="#">HUANG Lei</a>, #<a href="#">LIU Linjing</a>, #<a href="#">CHEN Xingjian</a>, #<a href="#">ZHANG Weitong</a>, #<a href="#">WANG Fuzhou</a>, #<a href="#">CHENG Ke</a>, <a href="#">SUN Hongyan</a>, <a href="#">WONG Ka Chun</a>, "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i>, 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a>.</p>   |
| <b>LIU Songbai</b> | <p>#<a href="#">LIU Songbai</a>, <a href="#">LIN Qiuzhen</a>, <a href="#">FENG Liang</a>, <a href="#">WONG Ka Chun</a>, <a href="#">TAN Kay Chen</a>, "Evolutionary Multitasking for Large-Scale Multiobjective Optimization", <i>IEEE Transactions on Evolutionary Computation</i>, 12 April 2022, doi: <a href="https://doi.org/10.1109/TEVC.2022.3166482">https://doi.org/10.1109/TEVC.2022.3166482</a>.</p> <p>#<a href="#">LIU Songbai</a>, <a href="#">LIN Qiuzhen</a>, <a href="#">LI Qing</a>, <a href="#">TAN Kay Chen</a>, "A Comprehensive Competitive Swarm Optimizer for Large-Scale Multiobjective Optimization", <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i>, 13 December 2021, doi: <a href="https://doi.org/10.1109/TSMC.2021.3131312">https://doi.org/10.1109/TSMC.2021.3131312</a>.</p> <p>#<a href="#">LIU Songbai</a>, <a href="#">LIN Qiuzhen</a>, <a href="#">TIAN Ye</a>, <a href="#">TAN Kay Chen</a>, "A Variable Importance-Based Differential Evolution for Large-Scale Multiobjective Optimization", <i>IEEE Transactions on Cybernetics</i>, 18 August 2021, doi: <a href="https://doi.org/10.1109/TCYB.2021.3098186">https://doi.org/10.1109/TCYB.2021.3098186</a>.</p> <p>#<a href="#">LIU Songbai</a>, <a href="#">ZHENG Junhao</a>, <a href="#">LIN Qiuzhen</a>, <a href="#">TAN Kay Chen</a>, "Evolutionary multi and many-objective optimization via clustering for environmental selection", <i>Information Sciences</i>, 578, 19 August 2021, pp 930-949, doi: <a href="https://doi.org/10.1016/j.ins.2021.08.054">https://doi.org/10.1016/j.ins.2021.08.054</a>.</p> <p>#<a href="#">LIU Songbai</a>, <a href="#">LIN Qiuzhen</a>, <a href="#">WONG Ka Chun</a>, <a href="#">LI Qing</a>, <a href="#">TAN Kay Chen</a>, "Evolutionary Large-Scale Multiobjective Optimization: Benchmarks and Algorithms", <i>IEEE Transactions on Evolutionary Computation</i>, 26 July 2021, doi: <a href="https://doi.org/10.1109/TEVC.2021.3099487">https://doi.org/10.1109/TEVC.2021.3099487</a>.</p> <p>#<a href="#">LIU Songbai</a>, <a href="#">LI Jun</a>, <a href="#">LIN Qiuzhen</a>, <a href="#">TIAN Ye</a>, <a href="#">TAN Kay Chen</a>, "Learning to Accelerate Evolutionary Search for Large-Scale Multiobjective Optimization", <i>IEEE Transactions on Evolutionary Computation</i>, 01 March 2022, doi: <a href="https://doi.org/10.1109/TEVC.2022.3155593">https://doi.org/10.1109/TEVC.2022.3155593</a>.</p> |
| <b>LIU Zhe</b>     | <p><a href="#">WANG Lei</a>, <a href="#">LIU Xudong</a>, <a href="#">YUE Miao</a>, #<a href="#">LIU Zhe</a>, <a href="#">ZHANG Yu</a>, <a href="#">MA Ying</a>, <a href="#">LUO Jia</a>, <a href="#">LI Wuling</a>, <a href="#">BAI Jiangshan</a>, <a href="#">YAO Hongmei</a>, <a href="#">CHEN Yuxuan</a>, <a href="#">LI Xiaofeng</a>, <a href="#">FENG Dayun</a>, <a href="#">SONG Xinqiang</a>, "Identification of hub genes in bladder cancer based on weighted gene co-expression network analysis from TCGA database", <i>Cancer Reports</i>, 20 September 2021, doi: <a href="https://doi.org/10.1002/cnr2.1557">https://doi.org/10.1002/cnr2.1557</a>.</p> <p><a href="#">ZHANG Yu</a>, <a href="#">LUO Jia</a>, #<a href="#">LIU Zhe</a>, <a href="#">LIU Xudong</a>, <a href="#">MA Ying</a>, <a href="#">BOHANG ZHANG</a>, <a href="#">CHEN Yuxuan</a>, <a href="#">LI Xiaofeng</a>, <a href="#">FENG Zhiguo</a>, <a href="#">YANG Ningning</a>, <a href="#">FENG Dayun</a>, <a href="#">WANG Lei</a>, <a href="#">SONG Xinqiang</a>, "Identification of hub genes in colorectal cancer based on weighted gene co-expression network analysis and clinical data from The Cancer Genome Atlas", <i>Bioscience Reports</i>, 41(7), 26 July 2021, doi: <a href="https://doi.org/10.1042/BSR20211280">https://doi.org/10.1042/BSR20211280</a>.</p> <p><a href="#">LIU Xudong</a>, <a href="#">LIU Yajie</a>, #<a href="#">LIU Zhe</a>, <a href="#">ZHANG Yu</a>, <a href="#">MA Ying</a>, <a href="#">BAI Jiangshan</a>, <a href="#">YAO Hongmei</a>, <a href="#">WANG Yafan</a>, <a href="#">ZHAO Xue</a>, <a href="#">LI Rui</a>, <a href="#">SONG Xinqiang</a>, <a href="#">CHEN Yuxuan</a>, <a href="#">FENG Zhiguo</a>, <a href="#">WANG Lei</a>, "Identification of <i>SLITRK6</i> as a Novel Biomarker in hepatocellular carcinoma by</p>  |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | comprehensive bioinformatic analysis", <i>Biochemistry and Biophysics Reports</i> , 28, 27 October 2021, doi: <a href="https://doi.org/10.1016/j.bbrep.2021.101157">https://doi.org/10.1016/j.bbrep.2021.101157</a> .   |
|                      | WANG Lei, LIU Xudong, #LIU Zhe, WANG Yafan, FAN Mengdi, YIN Jinyue, ZHANG Yu, MA Ying, LUO Jia, LI Rui, ZHAO Xue, ZHANG Peiju, ZHAO Lijun, FAN Jinke, CHEN Yuxuan, LU Wei, SONG Xinqiang, "Network models of prostate cancer immune microenvironments identify ROMO1 as heterogeneity and prognostic marker", <i>Scientific Reports</i> , 12, 07 January 2022, doi: <a href="https://doi.org/10.1038/s41598-021-03946-w">https://doi.org/10.1038/s41598-021-03946-w</a> . |
|                      | #LIU Zhe, LIU Xudong, LIU Fang, ZHAO Hui, ZHANG Yu, WANG Yafan, MA Ying, #WANG Fuzhou, #ZHANG Weitong, #PETINRIN Olutomilayo Olayemi, #YAO Zhongyu, #LIANG Jingbo, #HE Qian, FENG Dayun, WANG Lei, WONG Ka Chun, "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i> , 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a> . |
|                      | ZHAO Hui, WANG Qi, HU Liqui, XING Shaojun, GONG Hui, #LIU Zhe, QIN Panpan, XU Jie, DU Jihui, AI Wen, PENG Songlin, LI Yifan, "Dynamic Alteration of the Gut Microbiota Associated with Obesity and Intestinal Inflammation in Ovariectomy C57BL/6 Mice", <i>International Journal of Endocrinology</i> , 2022, 22 January 2022, doi: <a href="https://doi.org/10.1155/2022/6600158">https://doi.org/10.1155/2022/6600158</a> .  |
|                      | WEI Boyuan, #LIU Zhe, FAN Yue, WANG Shuwei, DONG Chao, RAO Wei, YANG Fan, CHENG Gang, ZHANG Jianning, "Analysis of Cellular Heterogeneity in Immune Microenvironment of Primary Central Nervous System Lymphoma by Single-Cell Sequencing", <i>Frontiers in Oncology</i> , 11, 04 October 2021, doi: <a href="https://doi.org/10.3389/fonc.2021.683007">https://doi.org/10.3389/fonc.2021.683007</a> .  |
| <b>LIU Ziquan</b>    | #LAN Hui, #LIU Ziquan, HSIAO Janet H, YU Dan, CHAN Antoni Bert, "Clustering Hidden Markov Models With Variational Bayesian Hierarchical EM", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 31 August 2021, doi: <a href="https://doi.org/10.1109/TNNLS.2021.3105570">https://doi.org/10.1109/TNNLS.2021.3105570</a> .  |
| <b>LOU Yang</b>      | #ZHANG Jindi, #LOU Yang, WANG Jianping, WU Kui, LU Kejie, JIA Xiaohua, "Evaluating Adversarial Attacks on Driving Safety in Vision-Based Autonomous Vehicles", <i>IEEE Internet of Things Journal</i> , 9(5), 26 July 2021, pp 3443-3456, doi: <a href="https://doi.org/10.1109/JIOT.2021.3099164">https://doi.org/10.1109/JIOT.2021.3099164</a> .  |
| <b>MA Xiaoxue</b>    | #MA Xiaoxue, KEUNG Wai Jacky, #YANG Zhen, YU Xiao, #LI Yishu, #ZHANG Hao, "CASMS: Combining clustering with attention semantic model for identifying security bug reports", <i>Information and Software Technology</i> , 147, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.infsof.2022.106906">https://doi.org/10.1016/j.infsof.2022.106906</a> .   |
| <b>MA Xiaoxue</b>    | #MA Xiaoxue, #ASHRAF Imran, CHAN Wing Kwong, "Davida: A Decentralization Approach to Localizing Transaction Sequences for Debugging Transactional Atomicity Violations", <i>IEEE Transactions on Reliability</i> , 07 June 2022, doi: <a href="https://doi.org/10.1109/TR.2022.3176680">https://doi.org/10.1109/TR.2022.3176680</a> .   |
|                      | #MEI Xiupei, #ASHRAF Imran, #MA Xiaoxue, #ZHANG Hao, #WEI Zhengyuan, #WANG Haipeng, CHAN Wing Kwong, "Execution Repair for Spark Programs by Active Maintenance of Partition Dependency", <i>IEEE Access</i> , 9, 16 July 2021, pp 101555-101573, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3097823">https://doi.org/10.1109/ACCESS.2021.3097823</a> .  |
| <b>MENG Lingkuan</b> | #MENG Lingkuan, CHAN Wai-Sum, #HUANG Lei, #LIU Linjing, #CHEN Xingjian, #ZHANG Weitong, #WANG Fuzhou, #CHENG Ke, SUN Hongyan, WONG Ka Chun, "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i> , 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a> .           |
| <b>MENG Xiangyi</b>  | #YAO Jing, #MENG Xiangyi, ZHENG Yifeng, WANG Cong, "Privacy-Preserving Content-Based Similarity Detection Over in-the-Cloud Middleboxes", <i>IEEE Transactions on Cloud Computing</i> , 21 April 2022, doi: <a href="https://doi.org/10.1109/TCC.2022.3169329">https://doi.org/10.1109/TCC.2022.3169329</a> .   |
| <b>MIAO Xinyao</b>   | LUO Jiaqi, LIU Liping, CHEN Lingxi, XU Xin, WANG Yanfei, WEI Bing-Chen, JU Chunrong, #WANG Xuedong, HUANG Liyan, ZENG Wenchuang, #MIAO Xinyao, SANG Ling, HUANG Danxia, #PAN Guangze, PENG Guilin, CHEN Zhuxing, ZHAO Zicheng, YANG Chao, CUI Weixue, JIANG Wenxi, XU Jinjin, LI Shuai, HE Jianxing, "Over-shedding of donor-derived cell-free DNA at immune-related regions into plasma of lung transplant recipient",   |

Section A: Publications of PhD Students

|                                     |   |
|-------------------------------------|---|
|                                     | <p><i>Clinical and Translational Medicine</i>, 12(1), 12 January 2022, doi: <a href="https://doi.org/10.1002/ctm2.622">https://doi.org/10.1002/ctm2.622</a>.</p> <p>YU Yonghan, CHEN Lingxi, #MIAO Xinyao, LI Shuaicheng, "SpecHap: a diploid phasing algorithm based on spectral graph theory", <i>Nucleic Acids Research</i>, 49(19), 17 August 2021, doi: <a href="https://doi.org/10.1093/nar/gkab709">https://doi.org/10.1093/nar/gkab709</a>.</p> <p>WANG Yinan, #MIAO Xinyao, ZHAO Zicheng, WANG Yonghui, LI Shuaicheng, WANG Changfa, "Transcriptome Atlas of 16 Donkey Tissues", <i>Frontiers in Genetics</i>, 12, 09 August 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.682734">https://doi.org/10.3389/fgene.2021.682734</a>.</p>   |
| <b>NGUYEN HUU Thanh</b>             | <p>#NGUYEN HUU Thanh, NGO Chong Wah, CHAN Wing Kwong, "SibNet: Food instance counting and segmentation", <i>Pattern Recognition</i>, 124, 29 November 2021, doi: <a href="https://doi.org/10.1016/j.patcog.2021.108470">https://doi.org/10.1016/j.patcog.2021.108470</a>.</p>   |
| <b>PAN Guangze</b>                  | <p>LUO Jiaqi, LIU Liping, CHEN Lingxi, XU Xin, WANG Yanfei, WEI Bing-Chen, JU Chunrong, #WANG Xuedong, HUANG Liyan, ZENG Wenchuang, #MIAO Xinyao, SANG Ling, HUANG Danxia, #PAN Guangze, PENG Guilin, CHEN Zhuxing, ZHAO Zicheng, YANG Chao, CUI Weixue, JIANG Wenxi, XU Jinjin, LI Shuai, HE Jianxing, "Over-shedding of donor-derived cell-free DNA at immune-related regions into plasma of lung transplant recipient", <i>Clinical and Translational Medicine</i>, 12(1), 12 January 2022, doi: <a href="https://doi.org/10.1002/ctm2.622">https://doi.org/10.1002/ctm2.622</a>.</p>  |
| <b>PENG Zhihao</b>                  | <p>#PENG Zhihao, LIU Hui, JIA Yuheng, HOU Junhui, "Adaptive Attribute and Structure Subspace Clustering Network", <i>IEEE Transactions on Image Processing</i>, 31, 05 May 2022, pp 3430-3439, doi: <a href="https://doi.org/10.1109/TIP.2022.3171421">https://doi.org/10.1109/TIP.2022.3171421</a>.</p>  |
| <b>PETINRIN Olutomilayo Olayemi</b> | <p>#PETINRIN Olutomilayo Olayemi, LI Xiangtao, WONG Ka Chun, "Particle Swarm Optimized Gaussian Process Classifier for Treatment Discontinuation Prediction in Multicohort Metastatic Castration-Resistant Prostate Cancer Patients", <i>IEEE Journal of Biomedical and Health Informatics</i>, 26(3), 11 August 2021, pp 1309-1317, doi: <a href="https://doi.org/10.1109/JBHI.2021.3103989">https://doi.org/10.1109/JBHI.2021.3103989</a>.</p> <p>#LIU Zhe, LIU Xudong, LIU Fang, ZHAO Hui, ZHANG Yu, WANG Yafan, MA Ying, #WANG Fuzhou, #ZHANG Weitong, #PETINRIN Olutomilayo Olayemi, #YAO Zhongyu, #LIANG Jingbo, #HE Qian, FENG Dayun, WANG Lei, WONG Ka Chun, "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i>, 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a>.</p> |
| <b>QIAN Yue</b>                     | <p>#QIAN Yue, HOU Junhui, KWONG Tak Wu Sam, HE Ying, "Deep Magnification-Flexible Upsampling over 3D Point Clouds", <i>IEEE Transactions on Image Processing</i>, 30, 30 September 2021, pp 8354-8367, doi: <a href="https://doi.org/10.1109/TIP.2021.3115385">https://doi.org/10.1109/TIP.2021.3115385</a>.</p>  |
| <b>SHAO Kang</b>                    | <p>REN Megan, OROZCO Anali, #SHAO Kang, ALBANEZ Anaseidy, ORTIZ Jeremy, CAO Boyang, WANG Lusheng, BARREDA Lilian, ALVAREZ Christian S., GARLAND Lisa, WU Dongjing, CHUNG Charles C., WANG Jiahui, FRONE Megan, RALON Sergio, ARGUETA Victor, OROZCO Roberto, GHARZOUZI Eduardo, DEAN Michael, "Germline variants in hereditary breast cancer genes are associated with early age at diagnosis and family history in Guatemalan breast cancer", <i>Breast Cancer Research and Treatment</i>, 189(2), 01 July 2021, doi: <a href="https://doi.org/10.1007/s10549-021-06305-5">https://doi.org/10.1007/s10549-021-06305-5</a>.</p>   |
| <b>SHAO Wei</b>                     | <p>#MA Shihua, #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #SHAO Wei, ZHAO Shijun, "Chemical short-range ordering regulated dislocation cross slip in high-entropy alloys", <i>Journal of Alloys and Compounds</i>, 911, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165144">https://doi.org/10.1016/j.jallcom.2022.165144</a>.</p> <p>LI Wei, #SHAO Wei, JI Shaoxiong, CAMBRIA Erik, "BiERU: Bidirectional Emotional Recurrent Unit for Conversational Sentiment Analysis", <i>Neurocomputing</i>, 467, 05 October 2021, pp 73-82, doi: <a href="https://doi.org/10.1016/j.neucom.2021.09.057">https://doi.org/10.1016/j.neucom.2021.09.057</a>.</p>   |
| <b>SU Qiang</b>                     | <p>NIU Zhixiong, #SU Qiang, CHENG Peng, XIONG Yongqiang, HAN Dongsu, WINSTEIN Keith, XUE Chun Jason, XU Hong, "NetKernel: Making Network Stack Part of the Virtualized Infrastructure", <i>IEEE/ACM Transactions on Networking</i>, 30(3), 03 December 2021, pp 999-1013, doi: <a href="https://doi.org/10.1109/TNET.2021.3129806">https://doi.org/10.1109/TNET.2021.3129806</a>.</p>   |
| <b>SUN Zehua</b>                    | <p>#SUN Zehua, #YANG Huanqi, LIU Kai, YIN Zhimeng, LI Zhenjiang, XU Weitao, "Recent Advances in LoRa: A Comprehensive Survey", <i>ACM Transactions on Sensor Networks</i>, 16 June 2022, doi: <a href="https://doi.org/10.1145/3543856">https://doi.org/10.1145/3543856</a>.</p>  |

Section A: Publications of PhD Students

|                        |   |
|------------------------|---|
| <b>SUN Zhenhao</b>     | YUAN Chen, LI Ye, HUANG Helai, <u>WANG Shiqi</u> , #SUN Zhenhao, WANG Honggang, "Application of explainable machine learning for real-time safety analysis toward a connected vehicle environment", <i>Accident Analysis and Prevention</i> , 171, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.aap.2022.106681">https://doi.org/10.1016/j.aap.2022.106681</a> .                    |
|                        | #YUAN Chen, LI Ye, HUANG Helai, <u>WANG Shiqi</u> , #SUN Zhenhao, LI Yan, "Using traffic flow characteristics to predict real-time conflict risk: A novel method for trajectory data analysis", <i>Analytic Methods in Accident Research</i> , 35, 15 March 2022, doi: <a href="https://doi.org/10.1016/j.amar.2022.100217">https://doi.org/10.1016/j.amar.2022.100217</a> .                  |
|                        | #ZHANG Qiudan, <u>WANG Shiqi</u> , WANG Xu, #SUN Zhenhao, KWONG Tak Wu Sam, JIANG Jianmin, "Geometry Auxiliary Salient Object Detection for Light Fields via Graph Neural Networks", <i>IEEE Transactions on Image Processing</i> , 30, 01 September 2021, pp 7578-7592, doi: <a href="https://doi.org/10.1109/TIP.2021.3108018">https://doi.org/10.1109/TIP.2021.3108018</a> .               |
| <b>TAN Xin</b>         | # <u>LIN Jiaying</u> , #TAN Xin, <u>XU Ke</u> , MA Lizhuang, <u>LAU Rynson W H</u> , "Frequency-aware Camouflaged Object Detection", <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 30 June 2022, doi: <a href="https://doi.org/10.1145/3545609">https://doi.org/10.1145/3545609</a> .  |
|                        | #TAN Xin, XU Jiachen, <u>CAO Ying</u> , <u>XU Ke</u> , MA Lizhuang, <u>LAU Rynson W H</u> , "HSNet: hierarchical semantics network for scene parsing", <i>Visual Computer</i> , 03 May 2022, doi: <a href="https://doi.org/10.1007/s00371-022-02477-3">https://doi.org/10.1007/s00371-022-02477-3</a> .   |
|                        | #TAN Xin, <u>XU Ke</u> , <u>CAO Ying</u> , ZHANG Yiheng, MA Lizhuang, <u>LAU Rynson W H</u> , "Night-time Scene Parsing with a Large Real Dataset", <i>IEEE Transactions on Image Processing</i> , 30, 27 October 2021, pp 9085-9098, doi: <a href="https://doi.org/10.1109/TIP.2021.3122004">https://doi.org/10.1109/TIP.2021.3122004</a> .  |
|                        | #TAN Xin, # <u>LIN Jiaying</u> , <u>XU Ke</u> , CHEN Pan , MA Lizhuang, <u>LAU Rynson W H</u> , "Mirror Detection With the Visual Chirality Cue", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 10 June 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3181030">https://doi.org/10.1109/TPAMI.2022.3181030</a> .  |
| <b>TIAN Xin</b>        | <u>XU Ke</u> , #TIAN Xin, YANG Xin, YIN Baocai, <u>LAU Rynson W H</u> , "Intensity-Aware Single-Image Deraining with Semantic and Color Regularization", <i>IEEE Transactions on Image Processing</i> , 30, 08 October 2021, pp 8497-8509, doi: <a href="https://doi.org/10.1109/TIP.2021.3116794">https://doi.org/10.1109/TIP.2021.3116794</a> .   |
|                        | #TIAN Xin, <u>XU Ke</u> , YANG Xin, YIN Baocai, <u>LAU Rynson W H</u> , "Learning to Detect Instance-Level Salient Objects Using Complementary Image Labels", <i>International Journal of Computer Vision</i> , 130(3), 31 January 2022, pp 729-746, doi: <a href="https://doi.org/10.1007/s11263-021-01553-w">https://doi.org/10.1007/s11263-021-01553-w</a> .                               |
| <b>TIAN Xing</b>       | #TIAN Xing, <u>LI Haoliang</u> , XIE Xiaofei, LIU Yang, <u>WANG Shiqi</u> , "Neuron Coverage-Guided Domain Generalization", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 08 March 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3157441">https://doi.org/10.1109/TPAMI.2022.3157441</a> .   |
|                        | #TIAN Xing, NG Wing W. Y., WANG Hui, "Concept Preserving Hashing for Semantic Image Retrieval with Concept Drift", <i>IEEE Transactions on Cybernetics</i> , 51(10), October 2021, pp 5184-5197, doi: <a href="https://doi.org/10.1109/TCYB.2019.2955130">https://doi.org/10.1109/TCYB.2019.2955130</a> .   |
| <b>TOSEEF Muhammad</b> | #TOSEEF Muhammad, LI Xiangtao, <u>WONG Ka Chun</u> , "Reducing healthcare disparities using multiple multiethnic data distributions with fine-tuning of transfer learning", <i>Briefings in Bioinformatics</i> , 23(3), 21 March 2022, doi: <a href="https://doi.org/10.1093/bib/bbac078">https://doi.org/10.1093/bib/bbac078</a> .   |
|                        | KHAN Muhammad Faizan, LU Lu, #TOSEEF Muhammad, MUSYafa Ahmed, AMIN Ahmad, "NotifyMiner: rule based user behavioral machine learning approach for context wise personalized notification services", <i>Journal of Ambient Intelligence and Humanized Computing</i> , 05 April 2022, doi: <a href="https://doi.org/10.1007/s12652-022-03785-1">https://doi.org/10.1007/s12652-022-03785-1</a> . |
| <b>WAN Ziyu</b>        | # <u>WAN Ziyu</u> , ZHANG Bo, CHEN Dongdong, ZHANG Pan, CHEN Dong, WEN Fang, <u>LIAO Jing</u> , "Old Photo Restoration via Deep Latent Space Translation", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 29 March 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3163183">https://doi.org/10.1109/TPAMI.2022.3163183</a> .                                  |
|                        | #ZHANG Jingbo, # <u>WAN Ziyu</u> , <u>LIAO Jing</u> , "Adaptive Joint Optimization for 3D Reconstruction with Differentiable Rendering", <i>IEEE Transactions on Visualization and Computer Graphics</i> , 04 February 2022, doi: <a href="https://doi.org/10.1109/TVCG.2022.3148245">https://doi.org/10.1109/TVCG.2022.3148245</a> .   |
| <b>WANG Can</b>        | FU Zhaoji, # <u>WANG Can</u> , WEI Guodong, ZHANG Wenrui, DU Shaofu, HONG Shenda, "HITS: Binarizing physiological time series with deep hashing neural network", <i>Pattern</i>   |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | <p><i>Recognition Letters</i>, 156, 08 March 2022, pp 23-28, doi: <a href="https://doi.org/10.1016/j.patrec.2022.03.003">https://doi.org/10.1016/j.patrec.2022.03.003</a>.</p> <p>#<a href="#">HAN Fangzhou</a>, #<a href="#">WANG Can</a>, #<a href="#">DU Hao</a>, <a href="#">LIAO Jing</a>, "Deep Portrait Lighting Enhancement with 3D Guidance", <i>Computer Graphics Forum</i>, 40(4), 15 July 2021, pp 177-188, doi: <a href="https://doi.org/10.1111/cgf.14350">https://doi.org/10.1111/cgf.14350</a>.</p> <p>#<a href="#">WANG Can</a>, CHAI Menglei, HE Mingming, CHEN Dongdong, <a href="#">LIAO Jing</a>, "Cross-Domain and Disentangled Face Manipulation with 3D Guidance", <i>IEEE Transactions on Visualization and Computer Graphics</i>, 04 January 2022, doi: <a href="https://doi.org/10.1109/TVCG.2021.3139913">https://doi.org/10.1109/TVCG.2021.3139913</a>.</p>  |
| <b>WANG Fuzhou</b>  | <p>#<a href="#">MENG Lingkuan</a>, CHAN Wai-Sum, #<a href="#">HUANG Lei</a>, #<a href="#">LIU Linjing</a>, #<a href="#">CHEN Xingjian</a>, #<a href="#">ZHANG Weitong</a>, #<a href="#">WANG Fuzhou</a>, #<a href="#">CHENG Ke</a>, SUN Hongyan, WONG Ka Chun, "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i>, 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a>.</p> <p>#<a href="#">ZHENG Zetian</a>, #<a href="#">XIE Weidun</a>, #<a href="#">CHEN Xingjian</a>, #<a href="#">WANG Fuzhou</a>, #<a href="#">HUANG Lei</a>, LI Xiangtao, LIN Qiuzhen, WONG Ka Chun, "Subclass-specific Prognosis and Treatment Efficacy Inference in Head and Neck Squamous Carcinoma", <i>IEEE Journal of Biomedical and Health Informatics</i>, 19 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3168289">https://doi.org/10.1109/JBHI.2022.3168289</a>.</p> <p>#<a href="#">CHEN Xingjian</a>, ZHU Zifan, #<a href="#">ZHANG Weitong</a>, #<a href="#">WANG Yuchen</a>, #<a href="#">WANG Fuzhou</a>, YANG Jianyi, WONG Ka Chun, "Human Disease Prediction from Microbiome Data by Multiple Feature Fusion and Deep Learning", <i>iScience</i>, 25(4), 16 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104081">https://doi.org/10.1016/j.isci.2022.104081</a>.</p> <p>#<a href="#">LIU Zhe</a>, LIU Xudong, LIU Fang, ZHAO Hui, ZHANG Yu, WANG Yafan, MA Ying, #<a href="#">WANG Fuzhou</a>, #<a href="#">ZHANG Weitong</a>, #<a href="#">PETINRIN Olutomilayo Olayemi</a>, #<a href="#">YAO Zhongyu</a>, #<a href="#">LIANG Jingbo</a>, #<a href="#">HE Qian</a>, FENG Dayun, WANG Lei, WONG Ka Chun, "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i>, 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a>.</p> |
| <b>WANG Haipeng</b> | <p>#<a href="#">MEI Xiupei</a>, #<a href="#">ASHRAF Imran</a>, #<a href="#">MA Xiaoxue</a>, #<a href="#">ZHANG Hao</a>, #<a href="#">WEI Zhengyuan</a>, #<a href="#">WANG Haipeng</a>, CHAN Wing Kwong, "Execution Repair for Spark Programs by Active Maintenance of Partition Dependency", <i>IEEE Access</i>, 9, 16 July 2021, pp 101555-101573, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3097823">https://doi.org/10.1109/ACCESS.2021.3097823</a>.</p>   |
| <b>WANG Jiuniu</b>  | <p>XU Wenjia, XIAN Yongqin, #<a href="#">WANG Jiuniu</a>, SCHIELE Bernt, AKATA Zeynep, "Attribute Prototype Network for Any-Shot Learning", <i>International Journal of Computer Vision</i>, 11 May 2022, doi: <a href="https://doi.org/10.1007/s11263-022-01613-9">https://doi.org/10.1007/s11263-022-01613-9</a>.</p> <p>#<a href="#">WANG Jiuniu</a>, XU Wenjia, #<a href="#">WANG Qingzhong</a>, CHAN Antoni Bert, "On Distinctive Image Captioning via Comparing and Reweighting", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i>, 16 March 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3159811">https://doi.org/10.1109/TPAMI.2022.3159811</a>.</p>   |
| <b>WANG Meng</b>    | <p>LI Junru, #<a href="#">WANG Meng</a>, ZHANG Li, WANG Shiqi, ZHANG Kai, WANG Shanshe, MA Siwei, GAO Wen, "Sub-Sampled Cross-Component Prediction for Emerging Video Coding Standards", <i>IEEE Transactions on Image Processing</i>, 30, 17 August 2021, pp 7305-7316, doi: <a href="https://doi.org/10.1109/TIP.2021.3104191">https://doi.org/10.1109/TIP.2021.3104191</a>.</p> <p>ZHANG Jiaqi, #<a href="#">WANG Meng</a>, JIA Chuanmin, WANG Shanshe, MA Siwei, GAO Wen, "Scalable Intra Coding Optimization for Video Coding", <i>IEEE Transactions on Circuits and Systems for Video Technology</i>, 11 May 2022, doi: <a href="https://doi.org/10.1109/TCSVT.2022.3174214">https://doi.org/10.1109/TCSVT.2022.3174214</a>.</p> <p>#<a href="#">CHEN Peilin</a>, YANG Wenhan, #<a href="#">WANG Meng</a>, SUN Long, HU Kangkang, WANG Shiqi, "Compressed Domain Deep Video Super-Resolution", <i>IEEE Transactions on Image Processing</i>, 30, 09 August 2021, pp 7156-7169, doi: <a href="https://doi.org/10.1109/TIP.2021.3101826">https://doi.org/10.1109/TIP.2021.3101826</a>.</p> <p>LI Yang, MENG Shengbin, ZHANG Xinfeng, #<a href="#">WANG Meng</a>, WANG Shiqi, WANG Yue, MA Siwei, "User-generated Video Quality Assessment: A Subjective and Objective Study", <i>IEEE Transactions on Multimedia</i>, 29 October 2021, doi: <a href="https://doi.org/10.1109/TMM.2021.3122347">https://doi.org/10.1109/TMM.2021.3122347</a>.</p>  |

Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
| <b>WANG Mingyue</b>   | #WANG Mingyue, GUO Yu, #ZHANG Chen, WANG Cong, HUANG Hejiao, JIA Xiaohua, "MedShare: A Privacy-Preserving Medical Data Sharing System by Using Blockchain", <i>IEEE Transactions on Services Computing</i> , 24 September 2021, doi: <a href="https://doi.org/10.1109/TSC.2021.3114719">https://doi.org/10.1109/TSC.2021.3114719</a> .  |
| <b>WANG Qingzhong</b> | #WANG Jiuniu, XU Wenjia, #WANG Qingzhong, CHAN Antoni Bert, "On Distinctive Image Captioning via Comparing and Reweighting", <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 16 March 2022, doi: <a href="https://doi.org/10.1109/TPAMI.2022.3159811">https://doi.org/10.1109/TPAMI.2022.3159811</a> .  |
| <b>WANG Ruohan</b>    | #WANG Ruohan, ZHANG Xianglilan, WANG Jianping, LI Shuaicheng, "DeepHost: phage host prediction with convolutional neural network", <i>Briefings in Bioinformatics</i> , 23(1), 22 September 2021, doi: <a href="https://doi.org/10.1093/bib/bbab385">https://doi.org/10.1093/bib/bbab385</a> .  |
| <b>WANG Shurun</b>    | #WANG Shurun, WANG Shiqi, YANG Wenhan, ZHANG Xinfeng, WANG Shanshe, MA Siwei, GAO Wen, "Towards Analysis-friendly Face Representation with Scalable Feature and Texture Compression", <i>IEEE Transactions on Multimedia</i> , 02 July 2021, doi: <a href="https://doi.org/10.1109/TMM.2021.3094300">https://doi.org/10.1109/TMM.2021.3094300</a> .   |
|                       | #WANG Shurun, WANG Zhao, WANG Shiqi, YE Yan, "End-to-End Compression Towards Machine Vision: Network Architecture Design and Optimization", <i>IEEE Open Journal of Circuits and Systems</i> , 2, 22 November 2021, pp 675-685, doi: <a href="https://doi.org/10.1109/OJCS.2021.3126061">https://doi.org/10.1109/OJCS.2021.3126061</a> .  |
| <b>WANG Weizheng</b>  | YANG Yaoqi, #WANG Weizheng, LIU Lingjun, DEV Kapal, QURESHI Nawab Muhammad Faseeh, "Aol Optimization in the UAV-Aided Traffic Monitoring Network Under Attack: A Stackelberg Game Viewpoint", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 22 March 2022, doi: <a href="https://doi.org/10.1109/TITS.2022.3157394">https://doi.org/10.1109/TITS.2022.3157394</a> .  |
|                       | ZHANG Lejun, LI Yuan, JIN Tianxing, #WANG Weizheng, JIN Zilong, ZHAO Chunhui, CAI Zhenhao, CHEN Huiling, "SPCBIG-EC: A Robust Serial Hybrid Model for Smart Contract Vulnerability Detection", <i>Sensors (Basel, Switzerland)</i> , 22(12), 19 June 2022, doi: <a href="https://doi.org/10.3390/s22124621">https://doi.org/10.3390/s22124621</a> .   |
|                       | SONG Jingcheng, HAN Zhaoyang, #WANG Weizheng, CHEN Jingxue, LIU Yining, "A new secure arrangement for privacy-preserving data collection", <i>Computer Standards and Interfaces</i> , 80, 16 September 2021, doi: <a href="https://doi.org/10.1016/j.csi.2021.103582">https://doi.org/10.1016/j.csi.2021.103582</a> .   |
|                       | KOPPU Srinivas, KUMAR K., KRISHNAN SOMAYAJI Siva Rama, MEENAKSHISUNDARAM Iyapparaja, #WANG Weizheng, SU Chunhua, "Fusion of Blockchain, IoT and Artificial Intelligence - A Survey", <i>IEICE Transactions on Information and Systems</i> , E105.D(2), 01 February 2022, pp 300-308, doi: <a href="https://doi.org/10.1587/transinf.2021BCR0001">https://doi.org/10.1587/transinf.2021BCR0001</a> .   |
|                       | #WANG Weizheng, HAN Zhaoyang, ALAZAB Mamoun, GADEKALLU Thippa Reddy, ZHOU Xiaokang, SU Chunhua, "Ultra Super Fast Authentication Protocol for Electric Vehicle Charging Using Extended Chaotic Maps", <i>IEEE Transactions on Industry Applications</i> , 21 June 2022, doi: <a href="https://doi.org/10.1109/TIA.2022.3184668">https://doi.org/10.1109/TIA.2022.3184668</a> .  |
|                       | ZHANG Lejun, ZOU Yanfei, YOUSUF Muhammad Hassam, #WANG Weizheng, JIN Zilong, SU Yansen, SEOKHOON Kim, "BDSS: Blockchain-based Data Sharing Scheme With Fine-grained Access Control And Permission Revocation In Medical Environment", <i>KSII Transactions on Internet and Information Systems</i> , 16(5), 31 May 2022, pp 1634-1652, doi: <a href="https://doi.org/10.3837/tiis.2022.05.012">https://doi.org/10.3837/tiis.2022.05.012</a> . |
|                       | #WANG Weizheng, SRIVASTAVA Gautam, LIN Jerry Chun-Wei, YANG Yaoqi, ALAZAB Mamoun, GADEKALLU Thippa Reddy, "Data Freshness Optimization Under CAA in the UAV-Aided MECN: A Potential Game Perspective", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 25 April 2022, doi: <a href="https://doi.org/10.1109/TITS.2022.3167485">https://doi.org/10.1109/TITS.2022.3167485</a> .   |
|                       | WANG Tian, YANG Quan, SHEN Xuewei, GADEKALLU Thippa Reddy, #WANG Weizheng, DEV Kapal, "A Privacy-Enhanced Retrieval Technology for the Cloud-Assisted Internet of Things", <i>IEEE Transactions on Industrial Informatics</i> , 18(7), 10 August 2021, pp 4981-4989, doi: <a href="https://doi.org/10.1109/TII.2021.3103547">https://doi.org/10.1109/TII.2021.3103547</a> .   |
|                       | LIU Dengzhi, ZHANG Yong, #WANG Weizheng, DEV Kapal, KHOWAJA Sunder Ali, "Flexible Data Integrity Checking With Original Data Recovery in IoT-Enabled Maritime Transportation Systems", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 15 November 2021, doi: <a href="https://doi.org/10.1109/TITS.2021.3125070">https://doi.org/10.1109/TITS.2021.3125070</a> .  |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | ZHANG Lejun, CHEN Weijie, #WANG Weizheng, JIN Zilong, ZHAO Chunhui, CAI Zhennao, CHEN Huiling, "CBGRU: A Detection Method of Smart Contract Vulnerability Based on a Hybrid Model", <i>Sensors</i> , 22(9), 07 May 2022, doi: <a href="https://doi.org/10.3390/s22093577">https://doi.org/10.3390/s22093577</a> .   |
|                     | BALAMURUGAN N. M., MOHAN Senthilkumar, ADIMOOLAM M., JOHN A., REDDY G Thippa, #WANG Weizheng, "DOA tracking for seamless connectivity in beamformed IoT-based drones", <i>Computer Standards &amp; Interfaces</i> , 79, 05 August 2021, doi: <a href="https://doi.org/10.1016/j.csi.2021.103564">https://doi.org/10.1016/j.csi.2021.103564</a> .  |
|                     | PANDYA Sharnil, GADEKALLU Thippa Reddy, REDDY Praveen Kumar, #WANG Weizheng, ALAZAB Mamoun, "InfusedHeart: A Novel Knowledge-Infused Learning Framework for Diagnosis of Cardiovascular Events", <i>IEEE Transactions on Computational Social Systems</i> , 02 March 2022, doi: <a href="https://doi.org/10.1109/TCSS.2022.3151643">https://doi.org/10.1109/TCSS.2022.3151643</a> .   |
|                     | DEEBAK B D, MEMON Fida Hussain, KHOWAJA Sunder Ali, DEV Kapal, #WANG Weizheng, QURESHI Nawab Muhammad Faseeh, SU Chunhua, "Lightweight Blockchain Based Remote Mutual Authentication for AI-Empowered IoT Sustainable Computing Systems", <i>IEEE Internet of Things Journal</i> , 18 February 2022, doi: <a href="https://doi.org/10.1109/JIOT.2022.3152546">https://doi.org/10.1109/JIOT.2022.3152546</a> .   |
|                     | JIANG Jun, LIU Fagui, NG Wing W. Y., TANG Quan, #WANG Weizheng, PHAM Quoc-Viet, "Dynamic Incremental Ensemble Fuzzy Classifier for Data Streams in Green Internet of Things", <i>IEEE Transactions on Green Communications and Networking</i> , 16 February 2022, doi: <a href="https://doi.org/10.1109/TGCN.2022.3151716">https://doi.org/10.1109/TGCN.2022.3151716</a> .  |
|                     | #WANG Weizheng, FIDA Memon Hussain, LIAN Zhuotao, YIN Zhimeng, GADEKALLU Thippa Reddy, PHAM Quoc-Viet, DEV Kapal, SU Chunhua, "Secure-Enhanced Federated Learning for AI-Empowered Electric Vehicle Energy Prediction", <i>IEEE Consumer Electronics Magazine</i> , 30 September 2021, doi: <a href="https://doi.org/10.1109/MCE.2021.3116917">https://doi.org/10.1109/MCE.2021.3116917</a> .   |
|                     | LI Hui, SHI Dongcong, #WANG Weizheng, LIAO Dan, GADEKALLU Thippa Reddy, YU Keping, "Secure routing for LEO satellite network survivability", <i>Computer Networks</i> , 211, 27 April 2022, doi: <a href="https://doi.org/10.1016/j.comnet.2022.109011">https://doi.org/10.1016/j.comnet.2022.109011</a> .  |
|                     | GONG Wenwen, ZHANG Wei, BILAL Muhammad, CHEN Yifei, XU Xiaolong, #WANG Weizheng, "Efficient Web APIs Recommendation With Privacy-Preservation for Mobile App Development in Industry 4.0", <i>IEEE Transactions on Industrial Informatics</i> , 18(9), 10 December 2021, pp 6379-6387, doi: <a href="https://doi.org/10.1109/TII.2021.3133614">https://doi.org/10.1109/TII.2021.3133614</a> .   |
|                     | ZHANG Lejun, WANG Jinlong, #WANG Weizheng, JIN Zilong, ZHAO Chunhui, CAI Zhennao, CHEN Huiling, "A Novel Smart Contract Vulnerability Detection Method Based on Information Graph and Ensemble Learning", <i>Sensors</i> , 22(9), 08 May 2022, doi: <a href="https://doi.org/10.3390/s22093581">https://doi.org/10.3390/s22093581</a> .   |
|                     | #WANG Weizheng, QIU Chen, YIN Zhimeng, SRIVASTAVA Gautam, GADEKALLU Thippa Reddy, ALSOLAMI Fawaz, SU Chunhua, "Blockchain and PUF-based Lightweight Authentication Protocol for Wireless Medical Sensor Networks", <i>IEEE Internet of Things Journal</i> , 05 October 2021, doi: <a href="https://doi.org/10.1109/JIOT.2021.3117762">https://doi.org/10.1109/JIOT.2021.3117762</a> .   |
|                     | LIAN Zhuotao, #WANG Weizheng, HUANG Huakun, SU Chunhua, "Layer-Based Communication-Efficient Federated Learning with Privacy Preservation", <i>IEICE Transactions on Information and Systems</i> , E105.D(2), 01 February 2022, pp 256-263, doi: <a href="https://doi.org/10.1587/transinf.2021BCP0006">https://doi.org/10.1587/transinf.2021BCP0006</a> .  |
|                     | XIONG Hu, JIN Chuanjie, ALAZAB Mamoun, YEH Kuo-Hui, WANG Hanxiao, GADEKALLU Thippa Reddy, #WANG Weizheng, SU Chunhua, "On the Design of Blockchain-based ECDSA with Fault-tolerant Batch Verification Protocol for Blockchain-enabled IoMT", <i>IEEE Journal of Biomedical and Health Informatics</i> , 26(5), 16 September 2021, pp 1977-1986, doi: <a href="https://doi.org/10.1109/JBHI.2021.3112693">https://doi.org/10.1109/JBHI.2021.3112693</a> .  |
| <b>WANG Xuedong</b> | LUO Jiaqi, LIU Liping, CHEN Lingxi, XU Xin, WANG Yanfei, WEI Bing-Chen, JU Chunrong, #WANG Xuedong, HUANG Liyan, ZENG Wenchuang, #MIAO Xinyao, SANG Ling, HUANG Danxia, #PAN Guangze, PENG Guilin, CHEN Zhuxing, ZHAO Zicheng, YANG Chao, CUI Weixue, JIANG Wenxi, XU Jinjin, LI Shuai, HE Jianxing, "Over-shedding of donor-derived cell-free DNA at immune-related regions into plasma of lung transplant recipient", <i>Clinical and Translational Medicine</i> , 12(1), 12 January 2022, doi: <a href="https://doi.org/10.1002/ctm2.622">https://doi.org/10.1002/ctm2.622</a> . |



Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
| <b>WANG Yuchen</b>   | #CHEN Xingjian, ZHU Zifan, #ZHANG Weitong, #WANG Yuchen, #WANG Fuzhou, YANG Jianyi, <u>WONG Ka Chun</u> , "Human Disease Prediction from Microbiome Data by Multiple Feature Fusion and Deep Learning", <i>iScience</i> , 25(4), 16 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104081">https://doi.org/10.1016/j.isci.2022.104081</a> .  |
| <b>WEI Zhengyuan</b> | #MEI Xiupei, #ASHRAF Imran, #MA Xiaoxue, #ZHANG Hao, #WEI Zhengyuan, #WANG Haipeng, <u>CHAN Wing Kwong</u> , "Execution Repair for Spark Programs by Active Maintenance of Partition Dependency", <i>IEEE Access</i> , 9, 16 July 2021, pp 101555-101573, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3097823">https://doi.org/10.1109/ACCESS.2021.3097823</a> .  |
| <b>WU Jiaxin</b>     | HELLER Silvan, GSTEIGER Viktor, BAILER Werner, GURRIN Cathal, JÓNSSON Björn Þór, LOKOČ Jakub, LEIBETSEDER Andreas, MEJZLÍK František, PEŠKA Ladislav, ROSSETTO Luca, SCHALL Konstantin, SCHOEFFMANN Klaus, SCHULDT Heiko, SPIESS Florian, TRAN Ly-Duyen, VADICAMO Lucia, VESELÝ Patrik, VROCHIDIS Stefanos, #WU Jiaxin, "Interactive video retrieval evaluation at a distance: comparing sixteen interactive video search systems in a remote setting at the 10th Video Browser Showdown", <i>International Journal of Multimedia Information Retrieval</i> , 11(1), 26 January 2022, pp 1-18, doi: <a href="https://doi.org/10.1007/s13735-021-00225-2">https://doi.org/10.1007/s13735-021-00225-2</a> . |
|                      | LOKOČ Jakub, VESELÝ Patrik, MEJZLÍK František, KOVALČÍK Gregor, SOUČEK Tomáš, ROSSETTO Luca, SCHOEFFMANN Klaus, BAILER Werner, GURRIN Cathal, SAUTER Loris, SONG Jaeyub, VROCHIDIS Stefanos, #WU Jiaxin, JÓNSSON Björn Þór, "Is the Reign of Interactive Search Eternal? Findings from the Video Browser Showdown 2020", <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 17(3), 22 July 2021, doi: <a href="https://doi.org/10.1145/3445031">https://doi.org/10.1145/3445031</a> .   |
| <b>WU Qiangqiang</b> | LIANG Yanjie, #WU Qiangqiang, LIU Yi, YAN Yan, WANG Hanzi, "Deep Correlation Filter Tracking With Shepherded Instance-Aware Proposals", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 16 August 2021, doi: <a href="https://doi.org/10.1109/TITS.2021.3103601">https://doi.org/10.1109/TITS.2021.3103601</a> .   |
| <b>WU Shangyu</b>    | MA Chenlin, YANG Hao, #WU Shangyu, WANG Yi, MAO Rui, "Tidal-tree-Mem: Towards Read-Intensive Key-Value Stores with Tidal Structure Based on LSM-Tree", <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 24 May 2022, doi: <a href="https://doi.org/10.1109/TCAD.2022.3177575">https://doi.org/10.1109/TCAD.2022.3177575</a> .   |
| <b>WU Wenhao</b>     | #WU Wenhao, #JIAO Qianfen, <u>WONG Hau San</u> , LI Gaozhe, WU Si, "Learning scene-adaptive pseudo annotations for pedestrian detection in semi-supervised scenarios", <i>Knowledge-Based Systems</i> , 243, 18 February 2022, doi: <a href="https://doi.org/10.1016/j.knosys.2022.108439">https://doi.org/10.1016/j.knosys.2022.108439</a> .   |
| <b>XIAO Zhen</b>     | #XIAO Zhen, #CHEN Tao, <u>LIU Yang</u> , #LI Jiao, <u>LI Zhenjiang</u> , "Keystroke Recognition with the Tapping Sound Recorded by Mobile Phone Microphones", <i>IEEE Transactions on Mobile Computing</i> , 21 December 2021, doi: <a href="https://doi.org/10.1109/TMC.2021.3137229">https://doi.org/10.1109/TMC.2021.3137229</a> .   |
| <b>XIE Hongcheng</b> | #XIE Hongcheng, GUO Yu, <u>JIA Xiaohua</u> , "Privacy-preserving Location-based Data Queries in Fog-enhanced Sensor Networks", <i>IEEE Internet of Things Journal</i> , 14 December 2021, doi: <a href="https://doi.org/10.1109/JIOT.2021.3135303">https://doi.org/10.1109/JIOT.2021.3135303</a> .  |
|                      | #XIE Hongcheng, <u>WANG Cong</u> , <u>JIA Xiaohua</u> , GUO Yu, "Enabling Privacy-Preserving Geographic Range Query in Fog-Enhanced IoT Services", <i>IEEE Transactions on Dependable and Secure Computing</i> , 09 July 2021, doi: <a href="https://doi.org/10.1109/TDSC.2021.3095933">https://doi.org/10.1109/TDSC.2021.3095933</a> .   |
| <b>XIE Qingyuan</b>  | #ZHANG Chen, MIAO Yinbin, #XIE Qingyuan, GUO Yu, DU Hongwei, <u>JIA Xiaohua</u> , "Privacy-Preserving Deduplication of Sensor Compressed Data in Distributed Fog Computing", <i>IEEE Transactions on Parallel and Distributed Systems</i> , 03 June 2022, doi: <a href="https://doi.org/10.1109/tpds.2022.3179992">https://doi.org/10.1109/tpds.2022.3179992</a> .  |
| <b>XIE Weidun</b>    | #ZHENG Zetian, #XIE Weidun, #CHEN Xingjian, #WANG Fuzhou, #HUANG Lei, LI Xiangtao, LIN Qiuzhen, <u>WONG Ka Chun</u> , "Subclass-specific Prognosis and Treatment Efficacy Inference in Head and Neck Squamous Carcinoma", <i>IEEE Journal of Biomedical and Health Informatics</i> , 19 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3168289">https://doi.org/10.1109/JBHI.2022.3168289</a> .  |
|                      | #XIE Weidun, #ZHENG Zetian, #ZHANG Weitong, #HUANG Lei, LIN Qiuzhen, <u>WONG Ka Chun</u> , "SRG-vote: Predicting miRNA-gene relationships via embedding and LSTM ensemble", <i>IEEE Journal of Biomedical and Health Informatics</i> , 26 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3169542">https://doi.org/10.1109/JBHI.2022.3169542</a> .  |

Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
| <p><b>XIE Wenxiu</b></p> | <p>#XIE Wenxiu, JI Meng, HUANG Riliu, HAO Tianyong, CHOW Chi Yin, "Predicting Risks of Machine Translations of Public Health Resources by Developing Interpretable Machine Learning Classifiers", <i>International Journal of Environmental Research and Public Health</i>, 18(16), 20 August 2021, doi: <a href="https://doi.org/10.3390/ijerph18168789">https://doi.org/10.3390/ijerph18168789</a>.</p>  |
|                          | <p>SHAN Yi, JI Meng, #XIE Wenxiu, ZHANG Xiaomin, QIAN Xiaobo, LI Rongying, HAO Tianyong, "Use of Health Care Chatbots Among Young People in China During the Omicron Wave of COVID-19: Evaluation of the User Experience of and Satisfaction With the Technology", <i>JMIR Human Factors</i>, 9(2), 01 April 2022, doi: <a href="https://doi.org/10.2196/36831">https://doi.org/10.2196/36831</a>.</p>   |
|                          | <p>SHAN Yi, JI Meng, #XIE Wenxiu, LI Rongying, QIAN Xiaobo, ZHANG Xiaomin, HAO Tianyong, "Interventions in Chinese Undergraduate Students? Mental Health: Systematic Review", <i>INTERACTIVE JOURNAL OF MEDICAL RESEARCH</i>, 11(1), 01 January 2022, doi: <a href="https://doi.org/10.2196/38249">https://doi.org/10.2196/38249</a>.</p>  |
|                          | <p>#XIE Wenxiu, JI Christine, HAO Tianyong, CHOW Chi Yin, "Predicting the Easiness and Complexity of English Health Materials for International Tertiary Students With Linguistically Enhanced Machine Learning Algorithms: Development and Validation Study", <i>JMIR Medical Informatics</i>, 9(10), 26 October 2021, doi: <a href="https://doi.org/10.2196/25110">https://doi.org/10.2196/25110</a>.</p>  |
|                          | <p>#XIE Wenxiu, JI Meng, ZHAO Mengdan, QIAN Xiaobo, CHOW Chi Yin, LAM Kam Yiu, HAO Tianyong, "Supporting Risk-Aware Use of Online Translation Tools in Delivering Mental Healthcare Services among Spanish-Speaking Populations", <i>Computational Intelligence and Neuroscience</i>, 2021, 28 October 2021, doi: <a href="https://doi.org/10.1155/2021/1011197">https://doi.org/10.1155/2021/1011197</a>.</p>   |
|                          | <p>JI Meng, #XIE Wenxiu, HUANG Riliu, QIAN Xiaobo, "Forecasting the suitability of online mental health information for effective self-care developing machine learning classifiers using natural language features", <i>International Journal of Environmental Research and Public Health</i>, 18(19), 24 September 2021, doi: <a href="https://doi.org/10.3390/ijerph181910048">https://doi.org/10.3390/ijerph181910048</a>.</p>                             |
|                          | <p>#XIE Wenxiu, JI Meng, ZHAO Mengdan, LAM Kam Yiu, CHOW Chi Yin, HAO Tianyong, "Developing Machine Learning and Statistical Tools to Evaluate the Accessibility of Public Health Advice on Infectious Diseases among Vulnerable People", <i>Computational Intelligence and Neuroscience</i>, 2021, 17 December 2021, doi: <a href="https://doi.org/10.1155/2021/1916690">https://doi.org/10.1155/2021/1916690</a>.</p>  |
|                          | <p>JI Meng, #XIE Wenxiu, HUANG Riliu, QIAN Xiaobo, "Forecasting erroneous neural machine translation of disease symptoms: Development of Bayesian probabilistic classifiers for cross-lingual health translation", <i>International Journal of Environmental Research and Public Health</i>, 18(18), 19 September 2021, doi: <a href="https://doi.org/10.3390/ijerph18189873">https://doi.org/10.3390/ijerph18189873</a>.</p>                                  |
|                          | <p>JI Meng, #XIE Wenxiu, ZHAO Mengdan, QIAN Xiaobo, CHOW Chi Yin, LAM Kam Yiu, YAN Jun, HAO Tianyong, "Probabilistic Prediction of Nonadherence to Psychiatric Disorder Medication from Mental Health Forum Data: Developing and Validating Bayesian Machine Learning Classifiers", <i>Computational Intelligence and Neuroscience</i>, 2022, 15 April 2022, doi: <a href="https://doi.org/10.1155/2022/6722321">https://doi.org/10.1155/2022/6722321</a>.</p> |
|                          | <p>JI Meng, #XIE Wenxiu, HUANG Riliu, QIAN Xiaobo, "Automatic diagnosis of mental healthcare information actionability: Developing binary classifiers", <i>International Journal of Environmental Research and Public Health</i>, 18(20), 13 October 2021, doi: <a href="https://doi.org/10.3390/ijerph182010743">https://doi.org/10.3390/ijerph182010743</a>.</p>   |
|                          | <p>#XIE Wenxiu, JI Meng, LIU Yanmeng, HAO Tianyong, CHOW Chi Yin, "Predicting Writing Styles of Web-Based Materials for Children's Health Education Using the Selection of Semantic Features: Machine Learning Approach", <i>JMIR Medical Informatics</i>, 9(7), 22 July 2021, doi: <a href="https://doi.org/10.2196/30115">https://doi.org/10.2196/30115</a>.</p>   |
|                          | <p>JI Meng, BODOMO Adams, #XIE Wenxiu, HUANG Riliu, "Assessing Communicative Effectiveness of Public Health Information in Chinese: Developing Automatic Decision Aids for International Health Professionals", <i>International Journal of Environmental Research and Public Health</i>, 18(19), 30 September 2021, pp 10329, doi: <a href="https://doi.org/10.3390/ijerph181910329">https://doi.org/10.3390/ijerph181910329</a>.</p>                         |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
|                      | # <u>XIE Wenxiu</u> , JI Meng, ZHAO Mengdan, ZHOU Tianqi, YANG Fan, QIAN Xiaobo, <u>CHOW Chi Yin</u> , <u>LAM Kam Yiu</u> , HAO Tianyong, "Detecting Symptom Errors in Neural Machine Translation of Patient Health Information on Depressive Disorders: Developing Interpretable Bayesian Machine Learning Classifiers", <i>Frontiers in Psychiatry</i> , 12, 21 October 2021, doi: <a href="https://doi.org/10.3389/fpsy.2021.771562">https://doi.org/10.3389/fpsy.2021.771562</a> .   |
| <b>XIONG Teng</b>    | HAN Lijuan, ZHAO Ling, # <u>ZHOU Yong</u> , YANG Chao, # <u>XIONG Teng</u> , LU Lin, DENG Yusheng, LUO Wen, CHEN Yang, QIU Qinwei, SHANG Xiaoxiao, HUANG Li, MO Zongchao, HUANG Shaogang, HUANG Suiping, LIU Zhi, YANG Wei, ZHAI Lixiang, NING Ziwan, LIN Chengyuan, HUANG Tao, CHENG Chungwah, ZHONG Linda LD, <u>LI Shuaicheng</u> , BIAN Zhaoxiang, FANG Xiaodong, "Altered metabolome and microbiome features provide clues in understanding irritable bowel syndrome and depression comorbidity", <i>ISME Journal</i> , 16(4), 08 November 2021, pp 983-996, doi: <a href="https://doi.org/10.1038/s41396-021-01123-5">https://doi.org/10.1038/s41396-021-01123-5</a> . |
| <b>XU Jie</b>        | LUO Xinyi, XUE Kaiping, # <u>XU Jie</u> , SUN Qibing, ZHANG Yongdong, "Blockchain Based Secure Data Aggregation and Distributed Power Dispatching for Microgrids", <i>IEEE Transactions on Smart Grid</i> , 12(6), 26 July 2021, pp 5268-5279, doi: <a href="https://doi.org/10.1109/TSG.2021.3099347">https://doi.org/10.1109/TSG.2021.3099347</a> .  |
|                      | TIAN Hangyu, XUE Kaiping, LUO Xinyi, LI Shaohua, # <u>XU Jie</u> , LIU Jiangqing, ZHAO Jun, WEI David S.L., "Enabling Cross-chain Transactions: A Decentralized Cryptocurrency Exchange Protocol", <i>IEEE Transactions on Information Forensics and Security</i> , 16, 09 July 2021, pp 3928-3941, doi: <a href="https://doi.org/10.1109/TIFS.2021.3096124">https://doi.org/10.1109/TIFS.2021.3096124</a> .   |
| <b>XUE Xiaoming</b>  | # <u>XUE Xiaoming</u> , CHEN Guodong, ZHANG Kai, ZHANG Liming, ZHAO Xinggang, <u>SONG Lingqi</u> , WANG Menghan, WANG Peng, "A divide-and-conquer optimization paradigm for waterflooding production optimization", <i>Journal of Petroleum Science and Engineering</i> , 211, 01 January 2022, doi: <a href="https://doi.org/10.1016/j.petrol.2021.110050">https://doi.org/10.1016/j.petrol.2021.110050</a> .   |
|                      | DESBORDES Joshua Kwesi, ZHANG Kai, # <u>XUE Xiaoming</u> , MA Xiaopeng, LUO Qin, HUANG Zhaoqin, HAI Sun, JUN Yao, "Dynamic production optimization based on transfer learning algorithms", <i>Journal of Petroleum Science and Engineering</i> , 208(Part A), 28 July 2021, doi: <a href="https://doi.org/10.1016/j.petrol.2021.109278">https://doi.org/10.1016/j.petrol.2021.109278</a> .   |
|                      | ZHONG Chao, ZHANG Kai, # <u>XUE Xiaoming</u> , QI Ji, ZHANG Liming, YAO Chuanjin, YANG Yongfei, WANG Jian, YAO Jun, ZHANG Weidong, "Surrogate-reformulation-assisted multitasking knowledge transfer for production optimization", <i>Journal of Petroleum Science and Engineering</i> , 208, 23 September 2021, doi: <a href="https://doi.org/10.1016/j.petrol.2021.109486">https://doi.org/10.1016/j.petrol.2021.109486</a> .  |
|                      | # <u>XUE Xiaoming</u> , YANG Cuie, # <u>HU Yao</u> , ZHANG Kai, CHEUNG Yiu-Ming, <u>SONG Lingqi</u> , TAN Kay Chen, "Evolutionary Sequential Transfer Optimization for Objective-Heterogeneous Problems", <i>IEEE Transactions on Evolutionary Computation</i> , 09 December 2021, doi: <a href="https://doi.org/10.1109/TEVC.2021.3133874">https://doi.org/10.1109/TEVC.2021.3133874</a> .  |
|                      | CHEN Guodong, ZHANG Kai, # <u>XUE Xiaoming</u> , ZHANG Liming, YAO Chuanjin, WANG Jian, YAO Jun, "A radial basis function surrogate model assisted evolutionary algorithm for high-dimensional expensive optimization problems", <i>Applied Soft Computing</i> , 116, 27 December 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.108353">https://doi.org/10.1016/j.asoc.2021.108353</a> .   |
| <b>YAN Guangfeng</b> | MAO Yuzhu, ZHAO Zihao, # <u>YAN Guangfeng</u> , LIU Yang, LAN Tian, <u>SONG Lingqi</u> , DING Wenbo, "Communication efficient federated learning with adaptive quantization", <i>ACM Transactions on Intelligent Systems and Technology</i> , 23 March 2022, doi: <a href="https://doi.org/10.1145/3510587">https://doi.org/10.1145/3510587</a> .  |
| <b>YANG Huanqi</b>   | # <u>SUN Zehua</u> , # <u>YANG Huanqi</u> , <u>LIU Kai</u> , YIN Zhimeng, <u>LI Zhenjiang</u> , <u>XU Weitao</u> , "Recent Advances in LoRa: A Comprehensive Survey", <i>ACM Transactions on Sensor Networks</i> , 16 June 2022, doi: <a href="https://doi.org/10.1145/3543856">https://doi.org/10.1145/3543856</a> .  |
| <b>YANG Zhen</b>     | # <u>YANG Zhen</u> , <u>KEUNG Wai Jacky</u> , # <u>KABIR Md Alamgir</u> , YU Xiao, TANG Yutian, # <u>ZHANG Miao</u> , # <u>FENG Shuo</u> , "ACoMNN: Attention enhanced Compound Neural Network for financial time-series forecasting with cross-regional features", <i>Applied Soft Computing</i> , 111, 01 July 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.107649">https://doi.org/10.1016/j.asoc.2021.107649</a> .  |
|                      | # <u>MA Xiaoxue</u> , <u>KEUNG Wai Jacky</u> , # <u>YANG Zhen</u> , YU Xiao, # <u>LI Yishu</u> , # <u>ZHANG Hao</u> , "CASMS: Combining clustering with attention semantic model for identifying security bug  |

Section A: Publications of PhD Students

|                    |  |
|--------------------|--|
|                    | reports", <i>Information and Software Technology</i> , 147, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.infsof.2022.106906">https://doi.org/10.1016/j.infsof.2022.106906</a> .  |
|                    | # <a href="#">YANG Zhen</a> , <a href="#">KEUNG Wai Jacky</a> , YU Xiao, XIAO Yan, JIN Zhi, # <a href="#">ZHANG Jingyu</a> , "On the Significance of Category Prediction for Code-Comment Synchronization", <i>ACM Transactions on Software Engineering and Methodology</i> , 24 May 2022, doi: <a href="https://doi.org/10.1145/3534117">https://doi.org/10.1145/3534117</a> .  |
|                    | ZHANG Fengji, YU Xiao, <a href="#">KEUNG Wai Jacky</a> , LI Fuyang, XIE Zhiwen, # <a href="#">YANG Zhen</a> , MA Caoyuan, ZHANG Zhimin, "Improving Stack Overflow question title generation with copying enhanced CodeBERT model and bi-modal information", <i>Information and Software Technology</i> , 148, 06 April 2022, doi: <a href="https://doi.org/10.1016/j.infsof.2022.106922">https://doi.org/10.1016/j.infsof.2022.106922</a> .  |
|                    | ZHANG Jintao, # <a href="#">YANG Zhen</a> , MENG Li, HAN Lu, "Environmental regulations and enterprises innovation performance: the role of R&D investments and political connections", <i>Environment, Development and Sustainability</i> , 24(3), 05 July 2021, pp 4088–4109, doi: <a href="https://doi.org/10.1007/s10668-021-01606-7">https://doi.org/10.1007/s10668-021-01606-7</a> .   |
| <b>YAO Jing</b>    | # <a href="#">YAO Jing</a> , # <a href="#">MENG Xiangyi</a> , ZHENG Yifeng, <a href="#">WANG Cong</a> , "Privacy-Preserving Content-Based Similarity Detection Over in-the-Cloud Middleboxes", <i>IEEE Transactions on Cloud Computing</i> , 21 April 2022, doi: <a href="https://doi.org/10.1109/TCC.2022.3169329">https://doi.org/10.1109/TCC.2022.3169329</a> .   |
| <b>YAO Zhongyu</b> | # <a href="#">LIU Zhe</a> , LIU Xudong, LIU Fang, ZHAO Hui, ZHANG Yu, WANG Yafan, MA Ying, # <a href="#">WANG Fuzhou</a> , # <a href="#">ZHANG Weitong</a> , # <a href="#">PETINRIN Olutomilayo Olayemi</a> , # <a href="#">YAO Zhongyu</a> , # <a href="#">LIANG Jingbo</a> , # <a href="#">HE Qian</a> , FENG Dayun, WANG Lei, <a href="#">WONG Ka Chun</a> , "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i> , 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a> . |
| <b>YE Luyao</b>    | # <a href="#">YE Luyao</a> , WANG Zezhong, # <a href="#">CHEN Xinhong</a> , <a href="#">WANG Jianping</a> , WU Kui, LU Kejie, "GSAN: Graph Self-Attention Network for Learning Spatial–Temporal Interaction Representation in Autonomous Driving", <i>IEEE Internet of Things Journal</i> , 9(12), 05 July 2021, pp 9190–9204, doi: <a href="https://doi.org/10.1109/JIOT.2021.3093523">https://doi.org/10.1109/JIOT.2021.3093523</a> .  |
| <b>YE Min</b>      | GAO Congming, # <a href="#">YE Min</a> , <a href="#">XUE Chun Jason</a> , ZHANG Youtao, SHI Liang, SHU Jiwu, YANG Jun, "Reprogramming 3D TLC Flash Memory based Solid State Drives", <i>ACM Transactions on Storage</i> , 18(1), 29 January 2022, doi: <a href="https://doi.org/10.1145/3487064">https://doi.org/10.1145/3487064</a> .   |
|                    | # <a href="#">YE Min</a> , LI Qiao, GAO Congming, DENG Shun, KUO Tei-Wei, <a href="#">XUE Chun Jason</a> , "Stop unnecessary refreshing: extending 3D NAND flash lifetime with ORBER", <i>CCF Transactions on High Performance Computing</i> , 08 June 2022, doi: <a href="https://doi.org/10.1007/s42514-022-00107-x">https://doi.org/10.1007/s42514-022-00107-x</a> .  |
| <b>YE Shuquan</b>  | # <a href="#">HAN Fangzhou</a> , # <a href="#">YE Shuquan</a> , HE Mingming, CHAI Menglei, <a href="#">LIAO Jing</a> , "Exemplar-Based 3D Portrait Stylization", <i>IEEE Transactions on Visualization and Computer Graphics</i> , 24 September 2021, doi: <a href="https://doi.org/10.1109/TVCG.2021.3114308">https://doi.org/10.1109/TVCG.2021.3114308</a> .   |
| <b>YU Jinghuan</b> | ZHAN Jinyu, JIANG Wei, LI Ying, WU Junting, ZHU Jianping, # <a href="#">YU Jinghuan</a> , "NIC-QF: A design of FPGA based Network Interface Card with Query Filter for big data systems", <i>Future Generation Computer Systems</i> , 136, 08 June 2022, pp 153-169, doi: <a href="https://doi.org/10.1016/j.future.2022.06.001">https://doi.org/10.1016/j.future.2022.06.001</a> .  |
|                    | ZHAN Jinyu, JIANG Wei, LI Ying, WU Junting, ZHU Jianping, # <a href="#">YU Jinghuan</a> , "Accelerating Queries of Big Data Systems by Storage-side CPU-FPGA Co-design", <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 28 July 2021, doi: <a href="https://doi.org/10.1109/TCAD.2021.3100743">https://doi.org/10.1109/TCAD.2021.3100743</a> .   |
| <b>YUAN Chen</b>   | LI Ye, SHI Yuntao, LEE Jaeyoung, # <a href="#">YUAN Chen</a> , WANG Baojie, "Safety Effects of Connected and Automated Vehicle-Based Variable Speed Limit Control near Freeway Bottlenecks considering Driver's Heterogeneity", <i>Journal of Advanced Transportation</i> , 2022, 30 January 2022, doi: <a href="https://doi.org/10.1155/2022/7996623">https://doi.org/10.1155/2022/7996623</a> .  |
|                    | HU Yuping, LI Ye, HUANG Helai, LEE Jaeyoung, # <a href="#">YUAN Chen</a> , ZOU Guoqing, "A high-resolution trajectory data driven method for real-time evaluation of traffic safety", <i>Accident Analysis and Prevention</i> , 165, 02 December 2021, doi: <a href="https://doi.org/10.1016/j.aap.2021.106503">https://doi.org/10.1016/j.aap.2021.106503</a> .  |
|                    | # <a href="#">YUAN Chen</a> , LI Ye, HUANG Helai, <a href="#">WANG Shiqi</a> , # <a href="#">SUN Zhenhao</a> , LI Yan, "Using traffic flow characteristics to predict real-time conflict risk: A novel method for trajectory data  |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | analysis", <i>Analytic Methods in Accident Research</i> , 35, 15 March 2022, doi: <a href="https://doi.org/10.1016/j.amar.2022.100217">https://doi.org/10.1016/j.amar.2022.100217</a> .  |
| <b>ZENG Chao</b>    | #ZENG Chao, KWONG Tak Wu Sam, "Learning cross-modality features for image caption generation", <i>International Journal of Machine Learning and Cybernetics</i> , 25 March 2022, doi: <a href="https://doi.org/10.1007/s13042-022-01506-w">https://doi.org/10.1007/s13042-022-01506-w</a> .  |
| <b>ZENG Zhi</b>     | #ZENG Zhi, LAM Kam Yiu, CHOW Chi Yin, LI Ning, "Improving Dialog System Grounded with Unstructured Knowledge by Domain Adaptive Pre-Training and Post-Ranking", <i>International Journal of Humanoid Robotics</i> , 18(6), December 2021, doi: <a href="https://doi.org/10.1142/S0219843621500195">https://doi.org/10.1142/S0219843621500195</a> .   |
| <b>ZHAN Zhaohui</b> | #ZHAN Zhaohui, WANG Lusheng, "Proteoform identification based on top-down tandem mass spectra with peak error corrections", <i>Briefings in Bioinformatics</i> , 23(2), 08 February 2022, doi: <a href="https://doi.org/10.1093/bib/bbab599">https://doi.org/10.1093/bib/bbab599</a> .   |
| <b>ZHANG Chen</b>   | GUO Yu, #ZHANG Chen, WANG Cong, JIA Xiaohua, "Towards Public Verifiable and Forward-Privacy Encrypted Search by Using Blockchain", <i>IEEE Transactions on Dependable and Secure Computing</i> , 10 May 2022, doi: <a href="https://doi.org/10.1109/TDSC.2022.3173291">https://doi.org/10.1109/TDSC.2022.3173291</a> .<br>#ZHANG Chen, MIAO Yinbin, #XIE Qingyuan, GUO Yu, DU Hongwei, JIA Xiaohua, "Privacy-Preserving Deduplication of Sensor Compressed Data in Distributed Fog Computing", <i>IEEE Transactions on Parallel and Distributed Systems</i> , 03 June 2022, doi: <a href="https://doi.org/10.1109/tpds.2022.3179992">https://doi.org/10.1109/tpds.2022.3179992</a> .<br>#WANG Mingyue, GUO Yu, #ZHANG Chen, WANG Cong, HUANG Hejiao, JIA Xiaohua, "MedShare: A Privacy-Preserving Medical Data Sharing System by Using Blockchain", <i>IEEE Transactions on Services Computing</i> , 24 September 2021, doi: <a href="https://doi.org/10.1109/TSC.2021.3114719">https://doi.org/10.1109/TSC.2021.3114719</a> . |
| <b>ZHANG Hao</b>    | #MA Xiaoxue, KEUNG Wai Jacky, #YANG Zhen, YU Xiao, #LI Yishu, #ZHANG Hao, "CASMS: Combining clustering with attention semantic model for identifying security bug reports", <i>Information and Software Technology</i> , 147, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.infsof.2022.106906">https://doi.org/10.1016/j.infsof.2022.106906</a> .<br>#MEI Xiupei, #ASHRAF Imran, #MA Xiaoxue, #ZHANG Hao, #WEI Zhengyuan, #WANG Haipeng, CHAN Wing Kwong, "Execution Repair for Spark Programs by Active Maintenance of Partition Dependency", <i>IEEE Access</i> , 9, 16 July 2021, pp 101555-101573, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3097823">https://doi.org/10.1109/ACCESS.2021.3097823</a> .  |
| <b>ZHANG Jindi</b>  | #ZHANG Yifan, ZHANG Jinghui, #ZHANG Jindi, WANG Jianping, LU Kejie, HONG L. Jeff, "Integrate Algorithmic Sampling-based Motion Planning with Learning in Autonomous Driving", <i>ACM Transactions on Intelligent Systems and Technology</i> , 13(3), 18 January 2022, doi: <a href="https://doi.org/10.1145/3469086">https://doi.org/10.1145/3469086</a> .<br>#ZHANG Jindi, #LOU Yang, WANG Jianping, WU Kui, LU Kejie, JIA Xiaohua, "Evaluating Adversarial Attacks on Driving Safety in Vision-Based Autonomous Vehicles", <i>IEEE Internet of Things Journal</i> , 9(5), 26 July 2021, pp 3443-3456, doi: <a href="https://doi.org/10.1109/JIOT.2021.3099164">https://doi.org/10.1109/JIOT.2021.3099164</a> .   |
| <b>ZHANG Jingbo</b> | #ZHANG Jingbo, #WAN Ziyu, LIAO Jing, "Adaptive Joint Optimization for 3D Reconstruction with Differentiable Rendering", <i>IEEE Transactions on Visualization and Computer Graphics</i> , 04 February 2022, doi: <a href="https://doi.org/10.1109/TVCG.2022.3148245">https://doi.org/10.1109/TVCG.2022.3148245</a> .   |
| <b>ZHANG Jingyi</b> | #ZHANG Jingyi, YANG Anjia, HU Qiao, HANCKE Gerhard Petrus, LIU Zhe, "Revisiting Error-Correction in Precommitment Distance-Bounding Protocols", <i>IEEE Transactions on Industrial Informatics</i> , 18(10), 13 December 2021, pp 7097-7106, doi: <a href="https://doi.org/10.1109/TII.2021.3134956">https://doi.org/10.1109/TII.2021.3134956</a> .  |
| <b>ZHANG Jingyu</b> | XIAO Chengli, FAN Ya, ZHANG Jingyu, ZHOU Renlai, "People Do not Automatically Take the Level-1 Visual Perspective of Humanoid Robot Avatars", <i>International Journal of Social Robotics</i> , 14(1), January 2022, pp 165-176, doi: <a href="https://doi.org/10.1007/s12369-021-00773-x">https://doi.org/10.1007/s12369-021-00773-x</a> .<br>#YANG Zhen, KEUNG Wai Jacky, YU Xiao, XIAO Yan, JIN Zhi, #ZHANG Jingyu, "On the Significance of Category Prediction for Code-Comment Synchronization", <i>ACM Transactions on Software Engineering and Methodology</i> , 24 May 2022, doi: <a href="https://doi.org/10.1145/3534117">https://doi.org/10.1145/3534117</a> .  |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
| <b>ZHANG Miao</b>     | #FENG Shuo, KEUNG Wai Jacky, ZHANG Peichang, #ZHANG Miao, XIAO Yan, "The impact of the distance metric and measure on SMOTE-based techniques in software defect prediction", <i>Information and Software Technology</i> , 142, 16 October 2021, doi: <a href="https://doi.org/10.1016/j.infsof.2021.106742">https://doi.org/10.1016/j.infsof.2021.106742</a> .   |
|                       | #YANG Zhen, KEUNG Wai Jacky, #KABIR Md Alamgir, YU Xiao, TANG Yutian, #ZHANG Miao, #FENG Shuo, "AComNN: Attention enhanced Compound Neural Network for financial time-series forecasting with cross-regional features", <i>Applied Soft Computing</i> , 111, 01 July 2021, doi: <a href="https://doi.org/10.1016/j.asoc.2021.107649">https://doi.org/10.1016/j.asoc.2021.107649</a> .  |
| <b>ZHANG Pingping</b> | #ZHANG Pingping, WANG Xu, MA Lin, WANG Shiqi, KWONG Tak Wu Sam, JIANG Jianmin, "Progressive Point Cloud Upsampling via Differentiable Rendering", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 31(12), 26 July 2021, pp 4673-4685, doi: <a href="https://doi.org/10.1109/TCSVT.2021.3100134">https://doi.org/10.1109/TCSVT.2021.3100134</a> .   |
| <b>ZHANG Qiudan</b>   | #ZHANG Qiudan, XIAO Xiaotong, WANG Xu, WANG Shiqi, KWONG Tak Wu Sam, JIANG Jianmin, "Adaptive Viewpoint Feature Enhancement-based Binocular Stereoscopic Image Saliency Detection", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 02 May 2022, doi: <a href="https://doi.org/10.1109/TCSVT.2022.3171563">https://doi.org/10.1109/TCSVT.2022.3171563</a> .  |
|                       | #ZHANG Qiudan, WANG Shiqi, WANG Xu, #SUN Zhenhao, KWONG Tak Wu Sam, JIANG Jianmin, "Geometry Auxiliary Salient Object Detection for Light Fields via Graph Neural Networks", <i>IEEE Transactions on Image Processing</i> , 30, 01 September 2021, pp 7578-7592, doi: <a href="https://doi.org/10.1109/TIP.2021.3108018">https://doi.org/10.1109/TIP.2021.3108018</a> .  |
| <b>ZHANG Ruilong</b>  | LI Bo, WANG Chenhao, #ZHANG Ruilong, "A note on the online interval scheduling secretary problem", <i>Operations Research Letters</i> , 50(1), 16 December 2021, pp 72-75, doi: <a href="https://doi.org/10.1016/j.orl.2021.12.007">https://doi.org/10.1016/j.orl.2021.12.007</a> .  |
| <b>ZHANG Wei</b>      | XIANG Haitao, ZHAO Yingze, LI Xinyang, LIU Peipei, WANG Longlong, WANG Meiniang, TIAN Lei, SUN Hai-Xi, #ZHANG Wei, XU Ziqian, YE Beiwei, YUAN Xiaojun, WANG Pengyan, ZHANG Ning, GONG Yuhuan, BIAN Chengrong, WANG Zhaohai, YU Linxiang, YAN Jin, MENG Fanping, BAI Changqing, WANG Xiaoshan, LIU Xiaopan, GAO Kai, WU Liang, LIU Longqi, GU Ying, BI Yuhai, SHI Yi, ZHANG Shaogeng, ZHU Chen, XU Xun, WU Guizhen, GAO George F., YANG Naibo, LIU William J., YANG Penghui, "Landscapes and dynamic diversifications of B-cell receptor repertoires in COVID-19 patients", <i>Human Immunology</i> , 83(2), 04 November 2021, pp 119-129, doi: <a href="https://doi.org/10.1016/j.humimm.2021.10.007">https://doi.org/10.1016/j.humimm.2021.10.007</a> . |
|                       | FANG Mingyan, SU Zheng, ABOLHASSANI Hassan, #ZHANG Wei, JIANG Chongyi, CHENG Bochen, LUO Lihua, WU Jinghua, WANG Shiyu, LIN Liya, WANG Xie, WANG Longlong, AGHAMOHAMMADI Asghar, LI Tao, ZHANG Xiuqing, HAMMARSTRÖM Lennart, LIU Xiao, "T Cell Repertoire Abnormality in Immunodeficiency Patients with DNA Repair and Methylation Defects", <i>Journal of Clinical Immunology</i> , 42(2), 25 November 2021, pp 375-393, doi: <a href="https://doi.org/10.1007/s10875-021-01178-1">https://doi.org/10.1007/s10875-021-01178-1</a> .   |
| <b>ZHANG Weitong</b>  | #MENG Lingkuan, CHAN Wai-Sum, #HUANG Lei, #LIU Linjing, #CHEN Xingjian, #ZHANG Weitong, #WANG Fuzhou, #CHENG Ke, SUN Hongyan, WONG Ka Chun, "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i> , 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a> .  |
|                       | #XIE Weidun, #ZHENG Zetian, #ZHANG Weitong, #HUANG Lei, LIN Qiuzhen, WONG Ka Chun, "SRG-vote: Predicting miRNA-gene relationships via embedding and LSTM ensemble", <i>IEEE Journal of Biomedical and Health Informatics</i> , 26 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3169542">https://doi.org/10.1109/JBHI.2022.3169542</a> .   |
|                       | #CHEN Xingjian, ZHU Zifan, #ZHANG Weitong, #WANG Yuchen, #WANG Fuzhou, YANG Jianyi, WONG Ka Chun, "Human Disease Prediction from Microbiome Data by Multiple Feature Fusion and Deep Learning", <i>iScience</i> , 25(4), 16 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104081">https://doi.org/10.1016/j.isci.2022.104081</a> .   |
|                       | #LIU Zhe, LIU Xudong, LIU Fang, ZHAO Hui, ZHANG Yu, WANG Yafan, MA Ying, #WANG Fuzhou, #ZHANG Weitong, #PETINRIN Olutomilayo Olayemi, #YAO Zhongyu, #LIANG Jingbo, #HE Qian, FENG Dayun, WANG Lei, WONG Ka Chun, "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i> , 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a> .  |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
| <b>ZHANG Xinbo</b>  | WONG Eugene Yin-Cheung, LING Kev Kwok-Tung, #ZHANG Xinbo, "Yield and port performance shipping allocation model for revamp service deployments under a dynamic trading landscape", <i>Transportation Research Part C: Emerging Technologies</i> , 130, 12 July 2021, doi: <a href="https://doi.org/10.1016/j.trc.2021.103279">https://doi.org/10.1016/j.trc.2021.103279</a> .  |
| <b>ZHANG Yang</b>   | #ZHANG Yang, WANG Yao, HAN Zhi, CHEN Xi'ai, TANG Yandong, "Effective Tensor Completion via Element-wise Weighted Low-rank Tensor Train with Overlapping Ket Augmentation", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 08 June 2022, doi: <a href="https://doi.org/10.1109/TCSVT.2022.3181471">https://doi.org/10.1109/TCSVT.2022.3181471</a> .  |
| <b>ZHANG Yifan</b>  | #ZHANG Yifan, ZHANG Jinghui, #ZHANG Jindi, WANG Jianping, LU Kejie, HONG L. Jeff, "Integrate Algorithmic Sampling-based Motion Planning with Learning in Autonomous Driving", <i>ACM Transactions on Intelligent Systems and Technology</i> , 13(3), 18 January 2022, doi: <a href="https://doi.org/10.1145/3469086">https://doi.org/10.1145/3469086</a> .   |
| <b>ZHANG Yuwei</b>  | #ZHANG Yuwei, CHEN Lingxi, LI Shuaicheng, "Detecting TAD-like domains from RNA-associated interactions", <i>Nucleic Acids Research</i> , 25 May 2022, doi: <a href="https://doi.org/10.1093/nar/gkac422">https://doi.org/10.1093/nar/gkac422</a> .   |
| <b>ZHAO Xiaofei</b> | #ZHAO Xiaofei, LAM Kam Yiu, ZHU Chunjiang, CHOW Chi Yin, KUO Tei-Wei, "MVLevelDB: Using Log-Structured Tree to Support Temporal Queries in IoT", <i>IEEE Internet of Things Journal</i> , 9(10), 21 September 2021, pp 7815-7825, doi: <a href="https://doi.org/10.1109/JIOT.2021.3113994">https://doi.org/10.1109/JIOT.2021.3113994</a> .   |
| <b>ZHENG Leqian</b> | DUAN Huayi, #DU Yuefeng, #ZHENG Leqian, WANG Cong, AU Man Ho, WANG Qian, "Towards Practical Auditing of Dynamic Data in Decentralized Storage", <i>IEEE Transactions on Dependable and Secure Computing</i> , 13 January 2022, doi: <a href="https://doi.org/10.1109/TDSC.2022.3142611">https://doi.org/10.1109/TDSC.2022.3142611</a> .  |
| <b>ZHENG Xiang</b>  | WANG Shengjie, CAO Yuxue, #ZHENG Xiang, ZHANG Tao, "Collision-Free Trajectory Planning for a 6-DoF Free Floating Space Robot via Hierarchical Decoupling Optimization", <i>IEEE Robotics and Automation Letters</i> , 7(2), 22 February 2022, pp 4953-4960, doi: <a href="https://doi.org/10.1109/LRA.2022.3152698">https://doi.org/10.1109/LRA.2022.3152698</a> .   |
| <b>ZHENG Zetian</b> | #ZHENG Zetian, #XIE Weidun, #CHEN Xingjian, #WANG Fuzhou, #HUANG Lei, LI Xiangtao, LIN Qiuzhen, WONG Ka Chun, "Subclass-specific Prognosis and Treatment Efficacy Inference in Head and Neck Squamous Carcinoma", <i>IEEE Journal of Biomedical and Health Informatics</i> , 19 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3168289">https://doi.org/10.1109/JBHI.2022.3168289</a> .<br>#XIE Weidun, #ZHENG Zetian, #ZHANG Weitong, #HUANG Lei, LIN Qiuzhen, WONG Ka Chun, "SRG-vote: Predicting miRNA-gene relationships via embedding and LSTM ensemble", <i>IEEE Journal of Biomedical and Health Informatics</i> , 26 April 2022, doi: <a href="https://doi.org/10.1109/JBHI.2022.3169542">https://doi.org/10.1109/JBHI.2022.3169542</a> .<br>#HUANG Lei, #LIN Jiecong, LI Xiangtao, SONG Lingqi, #ZHENG Zetian, WONG Ka Chun, "EGFI: drug-drug interaction extraction and generation with fusion of enriched entity and sentence information", <i>Briefings in Bioinformatics</i> , 23(1), 12 November 2021, doi: <a href="https://doi.org/10.1093/bib/bbab451">https://doi.org/10.1093/bib/bbab451</a> . |
| <b>ZHOU Anxin</b>   | CAI Chengjun, XU Lei, #ZHOU Anxin, WANG Cong, "Toward a Secure, Rich, and Fair Query Service for Light Clients on Public Blockchains", <i>IEEE Transactions on Dependable and Secure Computing</i> , 12 August 2021, doi: <a href="https://doi.org/10.1109/TDSC.2021.3103382">https://doi.org/10.1109/TDSC.2021.3103382</a> .<br>XU Lei, DUAN Huayi, #ZHOU Anxin, YUAN Xingliang, WANG Cong, "Interpreting and Mitigating Leakage-abuse Attacks in Searchable Symmetric Encryption", <i>IEEE Transactions on Information Forensics and Security</i> , 16, 16 November 2021, pp 5310-5325, doi: <a href="https://doi.org/10.1109/TIFS.2021.3128823">https://doi.org/10.1109/TIFS.2021.3128823</a> .<br>#LIAN Rui, #ZHOU Anxin, ZHENG Yifeng, "Towards secure and trustworthy crowdsourcing: challenges, existing landscape, and future directions", <i>Wireless Networks</i> , 07 June 2022, doi: <a href="https://doi.org/10.1007/s11276-022-03015-8">https://doi.org/10.1007/s11276-022-03015-8</a> .   |
| <b>ZHOU Yong</b>    | HAN Lijuan, ZHAO Ling, #ZHOU Yong, YANG Chao, #XIONG Teng, LU Lin, DENG Yusheng, LUO Wen, CHEN Yang, QIU Qinwei, SHANG Xiaoxiao, HUANG Li, MO Zongchao, HUANG Shaogang, HUANG Suiping, LIU Zhi, YANG Wei, ZHAI Lixiang, NING Ziwan, LIN Chengyuan, HUANG Tao, CHENG Chungwah, ZHONG Linda LD, LI Shuaicheng, BIAN Zhaoxiang, FANG Xiaodong, "Altered metabolome and microbiome features provide clues in understanding irritable bowel syndrome and depression comorbidity", <i>ISME</i>   |

Section A: Publications of PhD Students

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|-----------------------------------|---|
|                                   | <p><i>Journal</i>, 16(4), 08 November 2021, pp 983-996, doi: <a href="https://doi.org/10.1038/s41396-021-01123-5">https://doi.org/10.1038/s41396-021-01123-5</a>.</p>   |
|                                   | <p>ZHANG Zhe, ZHANG Yanlin, WANG Yinan, ZHAO Zicheng, YANG Melinda, ZHANG Lin, ZHOU Bin, XU Bingying, ZHANG Hongbo, CHEN Teng, <u>DAI Wenkui</u>, #ZHOU Yong, SHI Shuo, NIELSEN Rasmus, <u>LI Shuaicheng</u>, LI Shengbin, "The Tibetan-Yi region is both a corridor and a barrier for human gene flow", <i>Cell Reports</i>, 39(4), 26 April 2022, doi: <a href="https://doi.org/10.1016/j.celrep.2022.110720">https://doi.org/10.1016/j.celrep.2022.110720</a>.</p>   |
| <b>ZHOU Zhengxiang</b>            | <p>XU Lei, YUAN Xingliang, #ZHOU Zhengxiang, <u>WANG Cong</u>, XU Chungeng, "Towards Efficient Cryptographic Data Validation Service in Edge Computing", <i>IEEE Transactions on Services Computing</i>, 09 September 2021, doi: <a href="https://doi.org/10.1109/TSC.2021.3111208">https://doi.org/10.1109/TSC.2021.3111208</a>.</p>   |
| <b>ZHU Bin</b>                    | <p>#ZHU Bin, NGO Chong Wah, <u>CHAN Wing Kwong</u>, "Learning from Web Recipe-image Pairs for Food Recognition: Problem, Baselines and Performance", <i>IEEE Transactions on Multimedia</i>, 24, 29 October 2021, pp 1175-1185, doi: <a href="https://doi.org/10.1109/TMM.2021.3123474">https://doi.org/10.1109/TMM.2021.3123474</a>.</p> <p>HAO Yanbin, NGO Chong Wah, #ZHU Bin, "Learning to Match Anchor-Target Video Pairs with Dual Attentional Holographic Networks", <i>IEEE Transactions on Image Processing</i>, 30, 24 September 2021, pp 8130-8143, doi: <a href="https://doi.org/10.1109/TIP.2021.3113165">https://doi.org/10.1109/TIP.2021.3113165</a>.</p>  |
| <b>ZHU Lingyu</b>                 | <p>#CHEN Baoliang, #ZHU Lingyu, LI Guo, LU Fangbo, FAN Hongfei, <u>WANG Shiqi</u>, "Learning Generalized Spatial-Temporal Deep Feature Representation for No-Reference Video Quality Assessment", <i>IEEE Transactions on Circuits and Systems for Video Technology</i>, 32(4), April 2022, pp 1903-1916, doi: <a href="https://doi.org/10.1109/TCSVT.2021.3088505">https://doi.org/10.1109/TCSVT.2021.3088505</a>.</p> <p>#ZHU Lingyu, <u>YANG Wenhan</u>, #CHEN Baoliang, LU Fangbo, <u>WANG Shiqi</u>, "Enlightening Low-light Images with Dynamic Guidance for Context Enrichment", <i>IEEE Transactions on Circuits and Systems for Video Technology</i>, 26 January 2022, doi: <a href="https://doi.org/10.1109/TCSVT.2022.3146731">https://doi.org/10.1109/TCSVT.2022.3146731</a>.</p>   |
| <b>ZHU Zhiyu</b>                  | <p>#ZHU Zhiyu, LIU Hui, HOU Junhui, JIA Sen, <u>ZHANG Qingfu</u>, "Deep Amended Gradient Descent for Efficient Spectral Reconstruction from Single RGB Images", <i>IEEE Transactions on Computational Imaging</i>, 7, 02 November 2021, pp 1176-1188, doi: <a href="https://doi.org/10.1109/TCI.2021.3124364">https://doi.org/10.1109/TCI.2021.3124364</a>.</p>   |
| <b>Conference papers</b>          |   |
| <b>ASHRAF Imran</b>               | <p>JIANG Bo, CHEN Yifei, WANG Dong, #ASHRAF Imran, <u>CHAN Wing Kwong</u>, "WANA: Symbolic Execution of Wasm Bytecode for Extensible Smart Contract Vulnerability Detection", <i>2021 IEEE 21ST INTERNATIONAL CONFERENCE ON SOFTWARE QUALITY, RELIABILITY AND SECURITY (QRS 2021)</i>, Hainan, China, 06-10 December 2021, pp 926-937, (ISBN: 978-1-6654-5813-9).</p> <p>YANG Chunbai, #ASHRAF Imran, #MA Xiaoxue, <u>ZHANG Hao</u>, <u>CHAN Wing Kwong</u>, "OPE: Transforming Programs with Clean and Precise Separation of Tested Intraprocedural Program Paths with Path Profiling", <i>2021 IEEE 21ST INTERNATIONAL CONFERENCE ON SOFTWARE QUALITY, RELIABILITY AND SECURITY (QRS 2021)</i>, Hainan, 06-10 December 2021, pp 279-290.</p> <p>#ASHRAF Imran, <u>CHAN Wing Kwong</u>, "An Empirical Study on the Effects of Entry Function Pairs in Fuzzing Smart Contracts", <i>2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC)</i>, pp 1716-1721.</p> <p>#MA Xiaoxue, #ASHRAF Imran, <u>CHAN Wing Kwong</u>, "Sound Predictive Atomicity Violation Detection", <i>PROCEEDINGS - 2021 21st International Conference on Software Quality, Reliability and Security, QRS 2021</i>, Online Virtual, Hainan Island, China, 06-10 December 2021, pp 114-125, (ISBN: 978-1-6654-5813-9,978-1-6654-5814-6).</p> |
| <b>AZZAM Mohamed Said Mahmoud</b> | <p>#AZZAM Mohamed Said Mahmoud, WU Si, #ZHANG Yang, #GNANHA Tohokantche Aurele, <u>WONG Hau San</u>, "Adversarially Smoothed Feature Alignment for Visual Domain Adaptation", <i>2021 International Joint Conference on Neural Networks (IJCNN) Proceedings</i>, Virtual, 18-22 July 2021, (ISBN: 978-0-7381-3366-9,978-1-6654-3900-8,978-1-6654-4597-9).</p>   |



Section A: Publications of PhD Students

|                                  |  |
|----------------------------------|--|
|                                  | # <a href="#">AZZAM Mohamed Said Mahmoud</a> , <a href="#">WU Si</a> , # <a href="#">GNANHA Tohokantche Aurele</a> , # <a href="#">JIAO Qianfen</a> , <a href="#">WONG Hau San</a> , "UNSUPERVISED DOMAIN ADAPTATION VIA CLUSTER ALIGNMENT WITH MAXIMUM CLASSIFIER DISCREPANCY", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i> , Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 978-1-6654-1152-3,978-1-6654-3864-3).   |
| <b>CAO Jingchao</b>              | <a href="#">LV Yalei</a> , <a href="#">DAI Tao</a> , <a href="#">CHEN Bin</a> , <a href="#">LU Jian</a> , <a href="#">XIA Shu-Tao</a> , # <a href="#">CAO Jingchao</a> , "HOCA: Higher-order channel attention for single image super-resolution", <i>2021 IEEE International Conference on Acoustics, Speech, and Signal Processing - Proceedings</i> , Virtual, Toronto, Canada, 06-11 June 2021, pp 1605-1609, (ISBN: 978-1-7281-7605-5).   |
| <b>CHEN Baoliang</b>             | <a href="#">LI Guo</a> , # <a href="#">CHEN Baoliang</a> , # <a href="#">ZHU Lingyu</a> , <a href="#">HE Qinwen</a> , <a href="#">FAN Hongfei</a> , <a href="#">WANG Shiqi</a> , "PUGCQ: A Large Scale Dataset for Quality Assessment of Professional User-Generated Content", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 3728-3736, (ISBN: 9781450386517).  |
| <b>CHEN Bolin</b>                | # <a href="#">CHEN Bolin</a> , <a href="#">WANG Zhao</a> , # <a href="#">LI Binzhe</a> , # <a href="#">LIN Rongqun</a> , <a href="#">WANG Shiqi</a> , <a href="#">YE Yan</a> , "Beyond Keypoint Coding: Temporal Evolution Inference with Compact Feature Representation for Talking Face Video Compression", <i>Proceedings - DCC 2022: 2022 Data Compression Conference</i> , Snowbird, United States, 22-25 March 2022, pp 13-22, (ISBN: 9781665478939).  |
|                                  | # <a href="#">LI Binzhe</a> , # <a href="#">CHEN Bolin</a> , <a href="#">WANG Zhao</a> , <a href="#">WANG Shiqi</a> , <a href="#">YE Yan</a> , "Towards Ultra Low Bit-Rate Digital Human Character Communication via Compact 3D Face Descriptors", <i>Proceedings - DCC 2022: 2022 Data Compression Conference</i> , Snowbird, United States, 22-25 March 2022, (ISBN: 9781665478939).   |
| <b>CHEN Siya</b>                 | <a href="#">LI Congduan</a> , # <a href="#">CHEN Siya</a> , <a href="#">TAN Chee Wei</a> , "Fast Breadth-First Search Approximation for Epidemic Source Inference", <i>2022 56th Annual Conference on Information Sciences and Systems (CISS)</i> , Princeton, United States, 09-11 March 2022, pp 194-199, (ISBN: 978-1-6654-1797-6,9781665417969).   |
|                                  | <a href="#">LI Congduan</a> , <a href="#">TAN Chee Wei</a> , # <a href="#">LI Jingting</a> , # <a href="#">CHEN Siya</a> , "Fault-Tolerant Computation Meets Network Coding: Optimal Scheduling in Parallel Computing", <i>2021 IEEE Global Communications Conference (GLOBECOM) - Proceedings</i> , Ifema Madrid (In-Person & Virtual), Madrid, Spain, 07-11 December 2021, (ISBN: 978-1-7281-8105-9,9781728181042).  |
| <b>CHEN Yongliang</b>            | # <a href="#">NI Tao</a> , # <a href="#">CHEN Yongliang</a> , # <a href="#">SONG Keqi</a> , <a href="#">XU Weitao</a> , "A Simple and Fast Human Activity Recognition System Using Radio Frequency Energy Harvesting", <i>UbiComp/ISWC '21 Adjunct - Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers</i> , Virtual, United States, 21-26 September 2021, pp 666-671, (ISBN: 9781450384612). |
| <b>DING Keyan</b>                | # <a href="#">DING Keyan</a> , <a href="#">LIU Yi</a> , <a href="#">ZHOU Xueyi</a> , <a href="#">WANG Shiqi</a> , <a href="#">MA Kede</a> , "Locally Adaptive Structure and Texture Similarity for Image Quality Assessment", <i>MM '21 Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 2483-2491, (ISBN: 9781450386517).   |
| <b>FENG Shuo</b>                 | # <a href="#">FENG Shuo</a> , <a href="#">KEUNG Wai Jacky</a> , <a href="#">LIU Jie</a> , <a href="#">XIAO Yan</a> , <a href="#">YU Xiao</a> , # <a href="#">ZHANG Miao</a> , "ROCT: Radius-based class overlap cleaning technique to alleviate the class overlap problem in software defect prediction", <i>Proceedings - 2021 IEEE 45th Annual Computers, Software, and Applications Conference, COMPSAC 2021</i> , Virtual, Spain, 12-16 July 2021, pp 228-237, (ISBN: 9781665424639).                                  |
| <b>FENG Yinglan</b>              | # <a href="#">FENG Yinglan</a> , <a href="#">FENG Liang</a> , <a href="#">HOU Yaqing</a> , <a href="#">TAN Kay Chen</a> , <a href="#">KWONG Tak Wu Sam</a> , "EMT-ReMO: Evolutionary Multitasking for High-Dimensional Multi-Objective Optimization via Random Embedding", <i>2021 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION - 2021 PROCEEDINGS</i> , Virtual, Kraków, Poland, 28 June - 01 July 2021, pp 1672-1679, (ISBN: 978-1-7281-8392-3,978-1-7281-8393-0,978-1-7281-8394-7).  |
| <b>GNANHA Tohokantche Aurele</b> | # <a href="#">AZZAM Mohamed Said Mahmoud</a> , <a href="#">WU Si</a> , # <a href="#">ZHANG Yang</a> , # <a href="#">GNANHA Tohokantche Aurele</a> , <a href="#">WONG Hau San</a> , "Adversarially Smoothed Feature Alignment for Visual Domain Adaptation", <i>2021 International Joint Conference on Neural Networks (IJCNN)</i>  |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | <p><i>Proceedings</i>, Virtual, 18-22 July 2021, (ISBN: 978-0-7381-3366-9,978-1-6654-3900-8,978-1-6654-4597-9).</p> <p>#<a href="#">AZZAM Mohamed Said Mahmoud</a>, <a href="#">WU Si</a>, #<a href="#">GNANHA Tohokantche Aurele</a>, #<a href="#">JIAO Qianfen</a>, <a href="#">WONG Hau San</a>, "UNSUPERVISED DOMAIN ADAPTATION VIA CLUSTER ALIGNMENT WITH MAXIMUM CLASSIFIER DISCREPANCY", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i>, Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 978-1-6654-1152-3,978-1-6654-3864-3).</p>   |
| <b>GUAN Huankang</b>  | <p>#<a href="#">GUAN Huankang</a>, #<a href="#">LIN Jiaying</a>, <a href="#">LAU Rynson W H</a>, "Learning Semantic Associations for Mirror Detection", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) - CVPR 2022</i>, Hybrid, New Orleans, United States, 19-24 June 2022, pp 5941-5950.</p>  |
| <b>GUO Mantang</b>    | <p>#<a href="#">LYU Xianqiang</a>, #<a href="#">ZHU Zhiyu</a>, #<a href="#">GUO Mantang</a>, #<a href="#">JIN Jing</a>, <a href="#">HOU Junhui</a>, ZENG Huanqiang, "Learning Spatial-angular Fusion for Compressive Light Field Imaging in a Cycle-consistent Framework", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i>, Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 4613-4621, (ISBN: 9781450386517).</p> <p>#<a href="#">GUO Mantang</a>, #<a href="#">JIN Jing</a>, #<a href="#">LIU Hui</a>, <a href="#">HOU Junhui</a>, "Learning Dynamic Interpolation for Extremely Sparse Light Fields with Wide Baselines", <i>2021 IEEE/CVF International Conference on Computer Vision ICCV 2021 - Proceedings</i>, Virtual, 11-17 October 2021, pp 2430-2439, (ISBN: 978-1-6654-2812-5,978-1-6654-2813-2).</p>   |
| <b>GUO Ping</b>       | <p>LIU Shinan, CHENG Xiang, YANG Hanchao, SHU Yuanchao, WENG Xiaoran, #<a href="#">GUO Ping</a>, ZENG Kexiong, WANG Gang, YANG Yaling, "Stars can tell: A robust method to defend against GPS spoofing attacks using off-the-shelf chipset", <i>Proceedings of the 30th USENIX Security Symposium</i>, Virtual, 11-13 August 2021, pp 3935-3952, (ISBN: 9781939133243).</p>  |
| <b>HANG Ching Nam</b> | <p>#<a href="#">LI Jingting</a>, <a href="#">TAN Chee Wei</a>, #<a href="#">HANG Ching Nam</a>, <a href="#">QI Xintong</a>, "A Chatbot-Server Framework for Scalable Machine Learning Education through Crowdsourced Data", <i>L@S '22 - Proceedings of the Ninth ACM Conference on Learning @ Scale</i>, Cornell Tech's Roosevelt Island campus, New York City, United States, 01-03 June 2022, pp 271-274, (ISBN: 9781450391580).</p>  |
| <b>HE Jianfei</b>     | <p>YE Jiancheng, CAI Kechao, LIN Dong, LI Jiarong, #<a href="#">HE Jianfei</a>, <a href="#">LUI John C.S.</a>, "A Control-Theoretic and Online Learning Approach to Self-Tuning Queue Management", <i>2022 IEEE/ACM 30th International Symposium on Quality of Service, IWQoS 2022</i>, Oslo, Norway, 10-12 June 2022, (ISBN: 9781665468244).</p>  |
| <b>HOU Zhijian</b>    | <p>#<a href="#">HOU Zhijian</a>, <a href="#">NGO Chong Wah</a>, <a href="#">CHAN Wing Kwong</a>, "CONQUER: Contextual Query-aware Ranking for Video Corpus Moment Retrieval", <i>MM' 21 - Proceedings of the 29th ACM International Conference on Multimedia</i>, Virtual, China, 20-24 October 2021, pp 3900-3908, (ISBN: 978-1-4503-8651-7).</p> <p><a href="#">MA Zhixin</a>, #<a href="#">WU Jiaxin</a>, #<a href="#">HOU Zhijian</a>, <a href="#">NGO Chong Wah</a>, "Reinforcement Learning-Based Interactive Video Search", <i>MultiMedia Modeling - 28th International Conference, MMM 2022, Phu Quoc, Vietnam, June 6-10, 2022, Proceedings, Part II</i>, Phu Quoc Island (on-site and on-line), Phu Quoc, Viet Nam, 06-10 June 2022, pp 549-555, (ISBN: 978-3-030-98355-0,9783030983543).</p>  |
| <b>HUANG Endai</b>    | <p>#<a href="#">MAO Axiu</a>, #<a href="#">HUANG Endai</a>, <a href="#">XU Weitao</a>, <a href="#">LIU Kai</a>, "Cross-modality Interaction Network for Equine Activity Recognition Using Time-Series Motion Data", <i>Animal Environment and Welfare - Proceedings of International Symposium</i>, Chongring, China, 20-23 October 2021, pp 269-276.</p> <p>#<a href="#">HUANG Endai</a>, #<a href="#">MAO Axiu</a>, <a href="#">CEBALLOS Maria Camila</a>, <a href="#">PARSONS Thomas D.</a>, <a href="#">LIU Kai</a>, "Capacity Limit of Deep Learning Methods on Scenarios of Pigs in Farrowing Pen under Occlusion", <i>2021 ASABE Annual International Virtual Meeting</i>, Virtual, 12-16 July 2021, pp 1917-1924, (ISBN: 9781713833536).</p> <p>#<a href="#">HUANG Endai</a>, #<a href="#">MAO Axiu</a>, <a href="#">GAN Haiming</a>, <a href="#">LIU Kai</a>, "A Key Frame Selection Method for Creating Deep Learning Training Set in Animal Research Involving Time-Series Video Data", <i>Animal Environment and Welfare - Proceedings of International Symposium</i>, Chongring, China, 20-23 October 2021, pp 287-294.</p> |
| <b>HUANG Lei</b>      | <p>#<a href="#">HUANG Lei</a>, #<a href="#">SHAO Wei</a>, #<a href="#">WANG Fuzhou</a>, #<a href="#">XIE Weidun</a>, <a href="#">WONG Ka Chun</a>, "Metric Learning Based Vision Transformer for Product Matching", <i>Neural Information</i></p>  |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | <i>Processing - 28th International Conference, ICONIP 2021 Sanur, Bali, Indonesia, December 8–12, 2021 Proceedings</i> , Virtual, Indonesia, 08-12 December 2021, pp 3-13, (ISBN: 978-3-030-92184-2,978-3-030-92185-9).  |
| <b>HUANG Zhian</b>  | ZHAO Yu, ZHANG Yidan, #HUANG Zhian, YANG Fan, DUAN Lei, YAO Jianhua, "Mining the Associations between V(D)J Gene Segments and COVID-19 Disease Characteristics", <i>Proceedings - 2021 IEEE International Conference on Bioinformatics and Biomedicine</i> , Virtual, Houston, United States, 09-12 December 2021, pp 608-613, (ISBN: 9781665401265,9781665429825).                |
| <b>JIAO Qianfen</b> | ZHANG Zhongfan, CAO Wenming, LIU Cheng, LI Rui, #JIAO Qianfen, CHEN C. L. Philip, WONG Hau San, YU Zhiwen, "Unsupervised Ensemble Learning Via Network Generation", <i>2021 IEEE International Conference on Multimedia and Expo (ICME) DOI: 10.1109/ICME51207.2021</i> , Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 9781665411523,9781665438643).                          |
|                     | #AZZAM Mohamed Said Mahmoud, WU Si, #GNANHA Tohokantche Aurele, #JIAO Qianfen, WONG Hau San, "UNSUPERVISED DOMAIN ADAPTATION VIA CLUSTER ALIGNMENT WITH MAXIMUM CLASSIFIER DISCREPANCY", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i> , Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 978-1-6654-1152-3,978-1-6654-3864-3).                         |
| <b>JIN Jing</b>     | #LYU Xianqiang, #ZHU Zhiyu, #GUO Mantang, #JIN Jing, HOU Junhui, ZENG Huanqiang, "Learning Spatial-angular Fusion for Compressive Light Field Imaging in a Cycle-consistent Framework", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 4613-4621, (ISBN: 9781450386517). |
|                     | #GUO Mantang, #JIN Jing, #LIU Hui, HOU Junhui, "Learning Dynamic Interpolation for Extremely Sparse Light Fields with Wide Baselines", <i>2021 IEEE/CVF International Conference on Computer Vision ICCV 2021 - Proceedings</i> , Virtual, 11-17 October 2021, pp 2430-2439, (ISBN: 978-1-6654-2812-5,978-1-6654-2813-2).  |
| <b>KE Zhanghan</b>  | #ZHU Lei, XU Ke, #KE Zhanghan, LAU Rynson W H, "Mitigating Intensity Bias in Shadow Detection via Feature Decomposition and Reweighting", <i>Proceedings - 2021 IEEE/CVF International Conference on Computer Vision - ICCV 2021</i> , Virtual, Montreal, QC, Canada, 11-17 October 2021, pp 4682-4691, (ISBN: 9781665428125,9781665428132).                                       |
|                     | #KE Zhanghan, #SUN Jiayu, LI Kaican, YAN Qiong, LAU Rynson W H, "MODNet: Real-Time Trimap-free Portrait Matting via Objective Decomposition", <i>AAAI Conference on Artificial Intelligence</i> , 22 February 2022, pp 1140.   |
| <b>LAN Hui</b>      | #LAN Hui, CHAN Antoni Bert, "Hierarchical Learning of Hidden Markov Models with Clustering Regularization", <i>Proceedings of the Thirty-Seventh Conference on Uncertainty in Artificial Intelligence (UAI 2021)</i> , Virtual, Online, 27-30 July 2021, pp 1628-1638.   |
| <b>LI Binzhe</b>    | #CHEN Bolin, WANG Zhao, #LI Binzhe, #LIN Rongqun, WANG Shiqi, YE Yan, "Beyond Keypoint Coding: Temporal Evolution Inference with Compact Feature Representation for Talking Face Video Compression", <i>Proceedings - DCC 2022: 2022 Data Compression Conference</i> , Snowbird, United States, 22-25 March 2022, pp 13-22, (ISBN: 9781665478939).                                 |
|                     | #LI Binzhe, #CHEN Bolin, WANG Zhao, WANG Shiqi, YE Yan, "Towards Ultra Low Bit-Rate Digital Human Character Communication via Compact 3D Face Descriptors", <i>Proceedings - DCC 2022: 2022 Data Compression Conference</i> , Snowbird, United States, 22-25 March 2022, (ISBN: 9781665478939).  |
|                     | #LI Binzhe, #WANG Shurun, WANG Shiqi, "DEFENDING AGAINST NOISE BY CHARACTERIZING THE RATE-DISTORTION FUNCTIONS IN END-TO-END NOISY IMAGE COMPRESSION", <i>2021 IEEE International Conference on Image Processing - Proceedings</i> , Dena'ina Civic and Convention Center, Anchorage, United States, 19-22 September 2021, pp 3727-3731, (ISBN: 9781665431026,9781665441155).      |
| <b>LI Hongzong</b>  | #LI Hongzong, WANG Jun, "A Collaborative Neurodynamic Optimization Algorithm Based on Boltzmann Machines for Solving the Traveling Salesman Problem", <i>2021 11th International Conference on Intelligent Control and Information Processing (ICICIP)</i> , Dali, China, 03-07 December 2021, pp 325-333, (ISBN: 978-1-6654-2515-5).  |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | <u>ZHANG Ran</u> , # <u>LI Hongzong</u> , <u>WANG Jun</u> , "Index Tracking Based on Dynamic Time Warping and Constrained $k$ -medoids Clustering", <i>2021 11th International Conference on Intelligent Control and Information Processing (ICICIP)</i> , Dali, China, 03-07 December 2021, pp 352-359, (ISBN: 978-1-6654-2515-5).  |
| <b>LI Jiamin</b>    | # <u>MO Kaiwei</u> , <u>CHEN Chen</u> , # <u>LI Jiamin</u> , <u>XU Hong</u> , <u>XUE Chun Jason</u> , "Two-Dimensional Learning Rate Decay: Towards Accurate Federated Learning with Non-IID Data", <i>IJCNN 2021 - The International Joint Conference on Neural Networks, 2021 CONFERENCE PROCEEDINGS</i> , Virtual, 18-22 July 2021, (ISBN: 9780738133669,9781665439008,9781665445979).  |
| <b>LI Jiao</b>      | # <u>LI Jiao</u> , <u>LIU Yang</u> , <u>XU Weitao</u> , <u>LI Zhenjiang</u> , "GASLA: Enhancing the Applicability of Sign Language Translation", <i>IEEE INFOCOM 2022 - IEEE Conference on Computer Communications</i> , Virtual, London, United Kingdom, 02-05 May 2022, pp 1249-1258, (ISBN: 978-1-6654-5822-1,978-1-6654-5823-8).   |
| <b>LI Jingting</b>  | # <u>LI Jingting</u> , <u>TAN Chee Wei</u> , # <u>HANG Ching Nam</u> , <u>QI Xintong</u> , "A Chatbot-Server Framework for Scalable Machine Learning Education through Crowdsourced Data", <i>L@S '22 - Proceedings of the Ninth ACM Conference on Learning @ Scale</i> , Cornell Tech's Roosevelt Island campus, New York City, United States, 01-03 June 2022, pp 271-274, (ISBN: 9781450391580).<br><u>LI Congduan</u> , <u>TAN Chee Wei</u> , # <u>LI Jingting</u> , # <u>CHEN Siya</u> , "Fault-Tolerant Computation Meets Network Coding: Optimal Scheduling in Parallel Computing", <i>2021 IEEE Global Communications Conference (GLOBECOM) - Proceedings</i> , Ifema Madrid (In-Person & Virtual), Madrid, Spain, 07-11 December 2021, (ISBN: 978-1-7281-8105-9,9781728181042). |
| <b>LI Songhua</b>   | # <u>LI Songhua</u> , <u>LI Minming</u> , <u>DUAN Lingjie</u> , <u>LEE Chung Sing Victor</u> , "Online Ride-Hitching in UAV Travelling", <i>Computing and Combinatorics - 27th International Conference, COCOON 2021, Proceedings</i> , Shangri-La's Far Eastern Plaza Hotel, Tainan, Taiwan, 24-26 October 2021, pp 565-576, (ISBN: 9783030895426,9783030895433).   |
| <b>LI Tan</b>       | # <u>LI Tan</u> , <u>SONG Lingqi</u> , "Federated Adaptive Bandits Aided Caching for Heterogeneous Edge Servers with Uncertainty", <i>2022 IEEE Wireless Communications and Networking Conference (WCNC)</i> , Austin, United States, 10-13 April 2022, pp 1904-1909, (ISBN: 978-1-6654-4266-4,978-1-6654-4267-1).   |
| <b>LI Zongxi</b>    | # <u>LI Zongxi</u> , <u>LI Xianming</u> , <u>XIE Haoran</u> , <u>LI Qing</u> , <u>TAO Xiaohui</u> , "A Label Extension Schema for Improved Text Emotion Classification", <i>Proceedings - 2021 IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT 2021)</i> , Deakin Downtown (Online and Offline), Melbourne, Australia, 14-17 December 2021, pp 32-39, (ISBN: 9781450391153).  |
| <b>LIAN Rui</b>     | # <u>LIAN Rui</u> , # <u>ZHOU Anxin</u> , <u>ZHENG Yifeng</u> , <u>WANG Cong</u> , "Towards Secure and Trustworthy Crowdsourcing with Versatile Data Analytics", <i>Quality, Reliability, Security and Robustness in Heterogeneous Systems - 17th EAI International Conference, QShine 2021, Virtual Event, November 29-30, 2021, Proceedings</i> , Virtual, 29-30 November 2021, pp 42-53, (ISBN: 978-3-030-91423-3,978-3-030-91424-0).   |
| <b>LIANG Qihang</b> | # <u>LIANG Qihang</u> , <u>CHAN Chung</u> , "Improved Adversarial Robustness by Hardened Prediction", <i>2022 IEEE International Symposium on Information Theory (ISIT)</i> , Espoo, Finland, 26 June - 01 July 2022, pp 2952-2956, (ISBN: 978-1-6654-2159-1,978-1-6654-2160-7).   |
| <b>LIN Jiaying</b>  | # <u>GUAN Huankang</u> , # <u>LIN Jiaying</u> , <u>LAU Rynson W H</u> , "Learning Semantic Associations for Mirror Detection", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) - CVPR 2022</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 5941-5950.  |
| <b>LIN Rongqun</b>  | # <u>CHEN Bolin</u> , <u>WANG Zhao</u> , # <u>LI Binzhe</u> , # <u>LIN Rongqun</u> , <u>WANG Shiqi</u> , <u>YE Yan</u> , "Beyond Keypoint Coding: Temporal Evolution Inference with Compact Feature Representation for Talking Face Video Compression", <i>Proceedings - DCC 2022: 2022 Data Compression Conference</i> , Snowbird, United States, 22-25 March 2022, pp 13-22, (ISBN: 9781665478939).  |
| <b>LIU Hui</b>      | # <u>PENG Zhihao</u> , # <u>LIU Hui</u> , <u>JIA Yuheng</u> , <u>HOU Junhui</u> , "Attention-driven Graph Clustering Network", <i>MM '21 - Proceedings of the 29th ACM International Conference on</i>   |

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|                      |   |
|----------------------|---|
|                      | <p><i>Multimedia</i>, Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 935–943, (ISBN: 978-1-4503-8651-7).</p> <p>#<a href="#">GUO Mantang</a>, #<a href="#">JIN Jing</a>, #<a href="#">LIU Hui</a>, <a href="#">HOU Junhui</a>, "Learning Dynamic Interpolation for Extremely Sparse Light Fields with Wide Baselines", <i>2021 IEEE/CVF International Conference on Computer Vision ICCV 2021 - Proceedings</i>, Virtual, 11-17 October 2021, pp 2430-2439, (ISBN: 978-1-6654-2812-5,978-1-6654-2813-2).</p> <p>#<a href="#">ZHU Zhiyu</a>, #<a href="#">LIU Hui</a>, <a href="#">HOU Junhui</a>, <a href="#">ZENG Huanqiang</a>, <a href="#">ZHANG Qingfu</a>, "Semantic-embedded Unsupervised Spectral Reconstruction from Single RGB Images in the Wild", <i>2021 IEEE/CVF International Conference on Computer Vision ICCV 2021 - Proceedings</i>, Virtual, 11-17 October 2021, pp 2259-2268, (ISBN: 978-1-6654-2812-5,978-1-6654-2813-2).</p> |
| <b>LIU Shuqi</b>     | <p><a href="#">LI Xinlin</a>, #<a href="#">LIU Shuqi</a>, <a href="#">ZHANG Xinyi</a>, <a href="#">SONG Lingqi</a>, "Predicting Downside in Stock Market Using Knowledge and News Data", <i>Proceedings - 2021 IEEE 27th International Conference on Parallel and Distributed Systems - ICPADS 2021</i>, Jiuhua International Convention and Exhibition Center Hotel, Beijing, China, 14-16 December 2021, pp 34-41, (ISBN: 978-1-6654-0879-0,9781665408783).</p>   |
| <b>LIU Yuanzhen</b>  | <p>#<a href="#">LIU Yuanzhen</a>, <a href="#">QURESHI Umair Mujtaba</a>, <a href="#">HANCKE Gerhard Petrus</a>, "Feasibility of Inferring Keystrokes on PEDs with Sensors from Mobile Devices", <i>2021 IEEE 30th International Symposium on Industrial Electronics (ISIE)</i>, Online, Kyoto, Japan, 20-23 June 2021, (ISBN: 978-1-7281-9022-8,978-1-7281-9023-5,978-1-7281-9024-2).</p>   |
| <b>LIU Ziquan</b>    | <p>#<a href="#">LIU Ziquan</a>, <a href="#">CUI Yufei</a>, <a href="#">CHAN Antoni Bert</a>, "Improve Generalization and Robustness of Neural Networks via Weight Scale Shifting Invariant Regularizations", <i>ICML workshop on Adversarial Machine Learning</i>, 24-24 July 2021.</p>   |
| <b>LYU Xianqiang</b> | <p>#<a href="#">LYU Xianqiang</a>, #<a href="#">ZHU Zhiyu</a>, #<a href="#">GUO Mantang</a>, #<a href="#">JIN Jing</a>, <a href="#">HOU Junhui</a>, <a href="#">ZENG Huanqiang</a>, "Learning Spatial-angular Fusion for Compressive Light Field Imaging in a Cycle-consistent Framework", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i>, Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 4613-4621, (ISBN: 9781450386517).</p>  |
| <b>MA Xiaoxue</b>    | <p><a href="#">YANG Chunbai</a>, #<a href="#">ASHRAF Imran</a>, #<a href="#">MA Xiaoxue</a>, <a href="#">ZHANG Hao</a>, <a href="#">CHAN Wing Kwong</a>, "OPE: Transforming Programs with Clean and Precise Separation of Tested Intraprocedural Program Paths with Path Profiling", <i>2021 IEEE 21ST INTERNATIONAL CONFERENCE ON SOFTWARE QUALITY, RELIABILITY AND SECURITY (QRS 2021)</i>, Hainan, 06-10 December 2021, pp 279-290.</p> <p>#<a href="#">MA Xiaoxue</a>, #<a href="#">ASHRAF Imran</a>, <a href="#">CHAN Wing Kwong</a>, "Sound Predictive Atomicity Violation Detection", <i>PROCEEDINGS - 2021 21st International Conference on Software Quality, Reliability and Security, QRS 2021</i>, Online Virtual, Hainan Island, China, 06-10 December 2021, pp 114-125, (ISBN: 978-1-6654-5813-9,978-1-6654-5814-6).</p>   |
| <b>MAO Yu</b>        | <p>#<a href="#">MAO Yu</a>, <a href="#">CUI Yufei</a>, <a href="#">KUO Tei-Wei</a>, <a href="#">XUE Chun Jason</a>, "TRACE: A Fast Transformer-based General-Purpose Lossless Compressor", <i>WWW '22 - Proceedings of the ACM Web Conference 2022</i>, Virtual, Online, France, 25-29 April 2022, pp 1829-1838, (ISBN: 978-1-4503-9096-5).</p>   |
| <b>MO Kaiwei</b>     | <p>#<a href="#">MO Kaiwei</a>, <a href="#">CHEN Chen</a>, #<a href="#">LI Jiamin</a>, <a href="#">XU Hong</a>, <a href="#">XUE Chun Jason</a>, "Two-Dimensional Learning Rate Decay: Towards Accurate Federated Learning with Non-IID Data", <i>IJCNN 2021 - The International Joint Conference on Neural Networks, 2021 CONFERENCE PROCEEDINGS</i>, Virtual, 18-22 July 2021, (ISBN: 9780738133669,9781665439008,9781665445979).</p>   |
| <b>NI Tao</b>        | <p>#<a href="#">NI Tao</a>, #<a href="#">CHEN Yongliang</a>, #<a href="#">SONG Keqi</a>, <a href="#">XU Weitao</a>, "A Simple and Fast Human Activity Recognition System Using Radio Frequency Energy Harvesting", <i>UbiComp/ISWC '21 Adjunct - Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers</i>, Virtual, United States, 21-26 September 2021, pp 666-671, (ISBN: 9781450384612).</p>   |
| <b>PAN Riwei</b>     | <p><a href="#">LIANG Yu</a>, #<a href="#">PAN Riwei</a>, #<a href="#">REN Tianyu</a>, <a href="#">CUI Yufei</a>, <a href="#">AUSAVARUNGNIRUN Rachata</a>, <a href="#">CHEN Xianzhang</a>, <a href="#">LI Changlong</a>, <a href="#">KUO Tei-Wei</a>, <a href="#">XUE Chun Jason</a>, "CacheSifter: Sifting Cache Files for Boosted Mobile Performance and Lifetime", <i>Proceedings of the 20th USENIX</i></p>  |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | <i>Conference on File and Storage Technologies (FAST'22)</i> , Santa Clara, United States, 22-24 February 2022, pp 445-459, (ISBN: 978-1-939133-26-7).  |
| <b>PENG Zhihao</b>  | # <u>PENG Zhihao</u> , # <u>LIU Hui</u> , JIA Yuheng, <u>HOU Junhui</u> , "Attention-driven Graph Clustering Network", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 935–943, (ISBN: 978-1-4503-8651-7).   |
| <b>QIAN Yue</b>     | # <u>TANG Yingzhi</u> , # <u>QIAN Yue</u> , # <u>ZHANG Qijian</u> , # <u>ZENG Yiming</u> , <u>HOU Junhui</u> , ZHE Xuefei, "WarpingGAN: Warping Multiple Uniform Priors for Adversarial 3D Point Cloud Generation", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6397-6405.   |
|                     | # <u>ZENG Yiming</u> , # <u>QIAN Yue</u> , # <u>ZHANG Qijian</u> , <u>HOU Junhui</u> , <u>YUAN Yixuan</u> , HE Ying, "IDEA-Net: Dynamic 3D Point Cloud Interpolation via Deep Embedding Alignment", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition - CVPR 2022</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6338-6347.   |
| <b>REN Tianyu</b>   | <u>LIANG Yu</u> , # <u>PAN Riwei</u> , # <u>REN Tianyu</u> , <u>CUI Yufei</u> , AUSAVARUNGNIRUN Rachata, CHEN Xianzhang, LI Changlong, <u>KUO Tei-Wei</u> , <u>XUE Chun Jason</u> , "CacheSifter: Sifting Cache Files for Boosted Mobile Performance and Lifetime", <i>Proceedings of the 20th USENIX Conference on File and Storage Technologies (FAST'22)</i> , Santa Clara, United States, 22-24 February 2022, pp 445-459, (ISBN: 978-1-939133-26-7). |
| <b>SHAO Wei</b>     | # <u>TAN Haochen</u> , # <u>SHAO Wei</u> , # <u>WU Han</u> , YANG Ke, <u>SONG Linqi</u> , "A Sentence is Worth 128 Pseudo Tokens: A Semantic-Aware Contrastive Learning Framework for Sentence Embeddings", <i>Findings of the Association for Computational Linguistics: ACL 2022</i> , Dublin, Ireland, 01-01 May 2022, pp 246-256.   |
|                     | # <u>HUANG Lei</u> , # <u>SHAO Wei</u> , # <u>WANG Fuzhou</u> , # <u>XIE Weidun</u> , <u>WONG Ka Chun</u> , "Metric Learning Based Vision Transformer for Product Matching", <i>Neural Information Processing - 28th International Conference, ICONIP 2021 Sanur, Bali, Indonesia, December 8–12, 2021 Proceedings</i> , Virtual, Indonesia, 08-12 December 2021, pp 3-13, (ISBN: 978-3-030-92184-2,978-3-030-92185-9).                                   |
| <b>SHU Weibo</b>    | # <u>SHU Weibo</u> , # <u>WAN Jia</u> , TAN Kay Chen, <u>KWONG Tak Wu Sam</u> , <u>CHAN Antoni Bert</u> , "Crowd Counting in the Frequency Domain", <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> .  |
| <b>SUN Jiayu</b>    | # <u>KE Zhanghan</u> , # <u>SUN Jiayu</u> , LI Kaican, YAN Qiong, <u>LAU Rynson W H</u> , "MODNet: Real-Time Trimap-free Portrait Matting via Objective Decomposition", <i>AAAI Conference on Artificial Intelligence</i> , 22 February 2022, pp 1140.  |
| <b>SUN Xuan</b>     | # <u>WAN Hu</u> , # <u>SUN Xuan</u> , <u>CUI Yufei</u> , YANG Chia-Lin, <u>KUO Tei-Wei</u> , <u>XUE Chun Jason</u> , "FlashEmbedding: Storing embedding tables in SSD for large-scale recommender systems", <i>APSys '21 - Proceedings of the 12th ACM SIGOPS Asia-Pacific Workshop on Systems</i> , Virtual, Hong Kong, 24-25 August 2021, pp 9-16, (ISBN: 9781450386982).   |
|                     | # <u>SUN Xuan</u> , # <u>WAN Hu</u> , <u>LI Qiao</u> , YANG Chia-Lin, <u>KUO Tei-Wei</u> , <u>XUE Chun Jason</u> , "RM-SSD: In-Storage Computing for Large-Scale Recommendation Inference", <i>Proceedings - 2022 IEEE International Symposium on High -Performance Computer Architecture (HPCA 2022)</i> , Virtual, Seoul, Korea, Republic of, 02-06 April 2022, pp 1056-1070, (ISBN: 978-1-6654-2027-3).  |
| <b>TAN Haochen</b>  | # <u>TAN Haochen</u> , # <u>SHAO Wei</u> , # <u>WU Han</u> , YANG Ke, <u>SONG Linqi</u> , "A Sentence is Worth 128 Pseudo Tokens: A Semantic-Aware Contrastive Learning Framework for Sentence Embeddings", <i>Findings of the Association for Computational Linguistics: ACL 2022</i> , Dublin, Ireland, 01-01 May 2022, pp 246-256.   |
| <b>TANG Yingzhi</b> | # <u>TANG Yingzhi</u> , # <u>QIAN Yue</u> , # <u>ZHANG Qijian</u> , # <u>ZENG Yiming</u> , <u>HOU Junhui</u> , ZHE Xuefei, "WarpingGAN: Warping Multiple Uniform Priors for Adversarial 3D Point Cloud Generation", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6397-6405.   |
| <b>TIAN Xin</b>     | # <u>TIAN Xin</u> , <u>XU Ke</u> , YANG Xin, DU Lin, YIN Baocai, <u>LAU Rynson W H</u> , "Bi-directional Object-context Prioritization Learning for Saliency Ranking", <i>Proceedings of the IEEE/CVF</i>   |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | <i>Conference on Computer Vision and Pattern Recognition (CVPR) - CVPR 2022</i> , 19 June 2022, pp 5882.  |
| <b>WAN Hu</b>       | # <a href="#">WAN Hu</a> , # <a href="#">SUN Xuan</a> , <a href="#">CUI Yufei</a> , <a href="#">YANG Chia-Lin</a> , <a href="#">KUO Tei-Wei</a> , <a href="#">XUE Chun Jason</a> , "FlashEmbedding: Storing embedding tables in SSD for large-scale recommender systems", <i>APSys '21 - Proceedings of the 12th ACM SIGOPS Asia-Pacific Workshop on Systems</i> , Virtual, Hong Kong, 24-25 August 2021, pp 9-16, (ISBN: 9781450386982).   |
|                     | # <a href="#">SUN Xuan</a> , # <a href="#">WAN Hu</a> , <a href="#">LI Qiao</a> , <a href="#">YANG Chia-Lin</a> , <a href="#">KUO Tei-Wei</a> , <a href="#">XUE Chun Jason</a> , "RM-SSD: In-Storage Computing for Large-Scale Recommendation Inference", <i>Proceedings - 2022 IEEE International Symposium on High-Performance Computer Architecture (HPCA 2022)</i> , Virtual, Seoul, Korea, Republic of, 02-06 April 2022, pp 1056-1070, (ISBN: 978-1-6654-2027-3).   |
| <b>WAN Jia</b>      | # <a href="#">SHU Weibo</a> , # <a href="#">WAN Jia</a> , <a href="#">TAN Kay Chen</a> , <a href="#">KWONG Tak Wu Sam</a> , <a href="#">CHAN Antoni Bert</a> , "Crowd Counting in the Frequency Domain", <i>IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> .   |
|                     | # <a href="#">WU Qiangqiang</a> , # <a href="#">WAN Jia</a> , <a href="#">CHAN Antoni Bert</a> , "Dynamic Momentum Adaptation for Zero-Shot Cross-Domain Crowd Counting", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 658-666.   |
| <b>WAN Yongshuo</b> | # <a href="#">WAN Yongshuo</a> , <a href="#">FENG Cuiying</a> , <a href="#">WANG Jianping</a> , <a href="#">WU Kui</a> , "Progressive Construction of k-identifiable Networks".   |
| <b>WAN Ziyu</b>     | # <a href="#">WAN Ziyu</a> , # <a href="#">ZHANG Jingbo</a> , <a href="#">CHEN Dongdong</a> , <a href="#">LIAO Jing</a> , "High-Fidelity Pluralistic Image Completion with Transformers", <i>Proceedings - 2021 IEEE/CVF International Conference on Computer Vision - ICCV 2021</i> , Virtual, Montreal, QC, Canada, 11-17 October 2021, pp 4672-4681, (ISBN: 978-1-6654-2813-2,9781665428125).  |
|                     | <a href="#">GUO Zixin</a> , <a href="#">CHEN Liang</a> , # <a href="#">WAN Ziyu</a> , <a href="#">BAI Yang</a> , "Global Fusion Attention for Vision and Language Understanding (Student Abstract)", <i>The Thirty-Fifth AAAI Conference on Artificial Intelligence. The Thirty-Third Conference on Innovative Applications of Artificial Intelligence. The Eleventh Symposium on Educational Advances in Artificial Intelligence</i> , 02-09 February 2021, pp 15789-15790, (ISBN: 9781577358664 (18 issue set)).        |
|                     | # <a href="#">WAN Ziyu</a> , <a href="#">ZHANG Bo</a> , <a href="#">CHEN Dongdong</a> , <a href="#">LIAO Jing</a> , "Bringing Old Films Back to Life", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 17694-17703.  |
| <b>WANG Can</b>     | # <a href="#">WANG Can</a> , <a href="#">CHAI Menglei</a> , <a href="#">HE Mingming</a> , <a href="#">CHEN Dongdong</a> , <a href="#">LIAO Jing</a> , "CLIP-NeRF: Text-and-Image Driven Manipulation of Neural Radiance Fields", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 3835-3844.  |
| <b>WANG Fuzhou</b>  | # <a href="#">HUANG Lei</a> , # <a href="#">SHAO Wei</a> , # <a href="#">WANG Fuzhou</a> , # <a href="#">XIE Weidun</a> , <a href="#">WONG Ka Chun</a> , "Metric Learning Based Vision Transformer for Product Matching", <i>Neural Information Processing - 28th International Conference, ICONIP 2021 Sanur, Bali, Indonesia, December 8-12, 2021 Proceedings</i> , Virtual, Indonesia, 08-12 December 2021, pp 3-13, (ISBN: 978-3-030-92184-2,978-3-030-92185-9).  |
| <b>WANG Haipeng</b> | # <a href="#">WEI Zhengyuan</a> , # <a href="#">WANG Haipeng</a> , # <a href="#">YANG Zhen</a> , <a href="#">CHAN Wing Kwong</a> , "SEbox4DL: A Modular Software Engineering Toolbox for Deep Learning Models", <i>2022 IEEE/ACM 44th International Conference on Software Engineering: Companion Proceedings - ICSE-Companion 2022</i> , David Lawrence Convention Center (May 8-20, virtual, May 22-27, in-person), Pittsburgh, United States, 08-27 May 2022, pp 193-196, (ISBN: 978-1-6654-9598-1,978-1-6654-9599-8). |
|                     | # <a href="#">WANG Haipeng</a> , <a href="#">CHAN Wing Kwong</a> , "Orchid: Building Dynamic Test Oracles with Training Bias for Improving Deep Neural Network Models", <i>Proceedings - 2021 8th International Conference on Dependable Systems and Their Applications, DSA 2021</i> , North Minzu University, Yinchuan, China, 11-12 September 2021, pp 128-139, (ISBN: 978-1-6654-4391-3,978-1-6654-4392-0).   |
| <b>WANG Jiuniu</b>  | # <a href="#">WANG Jiuniu</a> , <a href="#">XU Wenjia</a> , # <a href="#">WANG Qingzhong</a> , <a href="#">CHAN Antoni Bert</a> , "Group-based Distinctive Image Captioning with Memory Attention", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Virtual, China, 20-24 October 2021, pp 5020-5028, (ISBN: 9781450386517).   |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
| <b>WANG Meng</b>      | ZHANG Jiaqi, #WANG Meng, JIA Chuanmin, WANG Qi, WANG Shanshe, MA Siwei, GAO Wen, "Fast Partition Mode Decision via a Plug-in Fully Connected Network for Video Coding", <i>Proceedings - DCC 2022: 2022 Data Compression Conference</i> , Snowbird, United States, 22-25 March 2022, pp 222-231, (ISBN: 9781665478939).  |
|                       | #WANG Meng, XU Jizheng, ZHANG Li, LI Junru, WANG Shiqi, "Multi-hypothesis inspired super-resolution for compression distorted screen content image", <i>Applications of Digital Image Processing XLIV</i> , San Diego, United States, 01-05 August 2021, (ISBN: 9781510645226,9781510645233).  |
| <b>WANG Qingzhong</b> | HUANG Yongsong, JIANG Zetao, #WANG Qingzhong, JIANG Qi, PANG Guoming, "Infrared Image Super-Resolution via Heterogeneous Convolutional WGAN", <i>PRICAI 2021: Trends in Artificial Intelligence - 18th Pacific Rim International Conference on Artificial Intelligence, PRICAI 2021, Proceedings, Part II</i> , Virtual, Online, 08-12 November 2021, pp 461-472, (ISBN: 978-3-030-89362-0,978-3-030-89363-7).                                     |
|                       | #WANG Jiuniu, XU Wenjia, #WANG Qingzhong, CHAN Antoni Bert, "Group-based Distinctive Image Captioning with Memory Attention", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Virtual, China, 20-24 October 2021, pp 5020-5028, (ISBN: 9781450386517).  |
| <b>WANG Shurun</b>    | #LI Binzhe, #WANG Shurun, WANG Shiqi, "DEFENDING AGAINST NOISE BY CHARACTERIZING THE RATE-DISTORTION FUNCTIONS IN END-TO-END NOISY IMAGE COMPRESSION", <i>2021 IEEE International Conference on Image Processing - Proceedings</i> , Dena'ina Civic and Convention Center, Anchorage, United States, 19-22 September 2021, pp 3727-3731, (ISBN: 9781665431026,9781665441155).  |
| <b>WANG Siyuan</b>    | #WANG Siyuan, YAN Qifa, ZHANG Jingjing, WANG Jianping, SONG Linqi, "Coded Alternating Least Squares for Straggler Mitigation in Distributed Recommendations", <i>2021 IEEE International Symposium on Information Theory - Proceedings</i> , Virtual, Melbourne, Australia, 12-20 July 2021, pp 1058-1063, (ISBN: 9781538682098,9781538682104).  |
| <b>WANG Xu</b>        | #WANG Xu, AL-BASHABSHEH Ali , #ZHAO Chao, CHAN Chung, "Smoothed InfoNCE: Breaking the log N Curse without Overshooting", <i>2022 IEEE International Symposium on Information Theory (ISIT)</i> , Espoo, Finland, 26 June - 01 July 2022, pp 724-729, (ISBN: 978-1-6654-2159-1,978-1-6654-2160-7).  |
|                       | #WANG Xu, AL-BASHABSHEH Ali, #ZHAO Chao, CHAN Chung, "Adaptive Label Smoothing for Classifier-based Mutual Information Neural Estimation", <i>2021 IEEE International Symposium on Information Theory - Proceedings</i> , Virtual, Melbourne, Australia, 12-20 July 2021, pp 1035-1040, (ISBN: 978-1-5386-8209-8,978-1-5386-8210-4).   |
| <b>WANG Zhihua</b>    | #WANG Zhihua, LI Dingquan , MA Kede, "Semi-Supervised Deep Ensembles for Blind Image Quality Assessment", <i>International Joint Conference on Artificial Intelligence Workshop on Weakly Supervised Representation Learning</i> , 21 August 2021.   |
|                       | #WANG Zhihua, WANG Haotao, CHEN Tianlong, WANG Zhangyang, MA Kede, "Troubleshooting blind image quality models in the wild", <i>Proceedings - 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition, CVPR 2021</i> , Virtual, 19-25 June 2021, pp 16251-16260, (ISBN: 9781665445092).  |
| <b>WEI Zhengyuan</b>  | #WEI Zhengyuan, #WANG Haipeng, #YANG Zhen, CHAN Wing Kwong, "SEbox4DL: A Modular Software Engineering Toolbox for Deep Learning Models", <i>2022 IEEE/ACM 44th International Conference on Software Engineering: Companion Proceedings - ICSE-Companion 2022</i> , David Lawrence Convention Center (May 8-20, virtual, May 22-27, in-Person), Pittsburgh, United States, 08-27 May 2022, pp 193-196, (ISBN: 978-1-6654-9598-1,978-1-6654-9599-8). |
|                       | #WEI Zhengyuan, CHAN Wing Kwong, "Fuzzing Deep Learning Models against Natural Robustness with Filter Coverage", <i>PROCEEDINGS - 2021 21st International Conference on Software Quality, Reliability and Security - QRS 2021</i> — , Hainan Island, China, 06-10 December 2021, pp 608-619, (ISBN: 978-1-6654-5813-9,978-1-6654-5814-6).  |
| <b>WU Han</b>         | #TAN Haochen, #SHAO Wei, #WU Han, YANG Ke, SONG Linqi, "A Sentence is Worth 128 Pseudo Tokens: A Semantic-Aware Contrastive Learning Framework for Sentence  |



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|                      |  |
|----------------------|--|
|                      | <p>Embeddings", <i>Findings of the Association for Computational Linguistics: ACL 2022</i>, Dublin, Ireland, 01-01 May 2022, pp 246-256.</p> <p>#<a href="#">WU Han</a>, XU Kun, SONG Linfeng, JIN Lifeng, ZHANG Haisong, <a href="#">SONG Lingqi</a>, "Domain-Adaptive Pretraining Methods for Dialogue Understanding", <i>Proceedings of the 59th Annual Meeting of the Association for Computational Linguistics and the 11th International Joint Conference on Natural Language Processing - Short Papers</i>, Virtual, 01-06 August 2021, pp 665-669, (ISBN: 978-1-954085-53-4).</p> <p>#<a href="#">WU Han</a>, XU Kun, <a href="#">SONG Lingqi</a>, "CSAGN: Conversational Structure Aware Graph Network for Conversational Semantic Role Labeling", <i>Proceedings of the 2021 Conference on Empirical Methods in Natural Language Processing</i>, Online &amp; in the Barceló Bávaro Convention Centre, Punta Cana, Dominican Republic, 07-11 November 2021, pp 2312-2317, (ISBN: 9781955917094).</p> |
| <b>WU Jiaxin</b>     | <p>MA Zhixin, #<a href="#">WU Jiaxin</a>, #<a href="#">HOU Zhijian</a>, NGO Chong Wah, "Reinforcement Learning-Based Interactive Video Search", <i>MultiMedia Modeling - 28th International Conference, MMM 2022, Phu Quoc, Vietnam, June 6–10, 2022, Proceedings, Part II</i>, Phu Quoc Island (on-site and on-line), Phu Quoc, Viet Nam, 06-10 June 2022, pp 549-555, (ISBN: 978-3-030-98355-0,9783030983543).</p> <p>LOKOČ Jakub, BAILER Werner, BARTHEL Kai Uwe, GURRIN Cathal, HELLER Silvan, JÓNSSON Björn Þór, PEŠKA Ladislav, ROSSETTO Luca, SCHOEFFMANN Klaus, VADICAMO Lucia, VROCHIDIS Stefanos, #<a href="#">WU Jiaxin</a>, "A Task Category Space for User-Centric Comparative Multimedia Search Evaluations", <i>MultiMedia Modeling - 28th International Conference, MMM 2022, Proceedings, Part I</i>, Phu Quoc, Viet Nam, 06-10 June 2022, pp 193-204, (ISBN: 978-3-030-98357-4,978-3-030-98358-1).</p>   |
| <b>WU Qiangqiang</b> | <p>#<a href="#">WU Qiangqiang</a>, <a href="#">CHAN Antoni Bert</a>, "META-GRAPH ADAPTATION FOR VISUAL OBJECT TRACKING", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i>, Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 978-1-6654-1152-3,978-1-6654-3864-3).</p> <p>#<a href="#">WU Qiangqiang</a>, #<a href="#">WAN Jia</a>, <a href="#">CHAN Antoni Bert</a>, "Dynamic Momentum Adaptation for Zero-Shot Cross-Domain Crowd Counting", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i>, Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 658–666.</p>   |
| <b>XIE Weidun</b>    | <p>#<a href="#">HUANG Lei</a>, #<a href="#">SHAO Wei</a>, #<a href="#">WANG Fuzhou</a>, #<a href="#">XIE Weidun</a>, <a href="#">WONG Ka Chun</a>, "Metric Learning Based Vision Transformer for Product Matching", <i>Neural Information Processing - 28th International Conference, ICONIP 2021 Sanur, Bali, Indonesia, December 8–12, 2021 Proceedings</i>, Virtual, Indonesia, 08-12 December 2021, pp 3-13, (ISBN: 978-3-030-92184-2,978-3-030-92185-9).</p>  |
| <b>XIE Wenxiu</b>    | <p>#<a href="#">XIE Wenxiu</a>, LEE John Sie Yuen, ZHAN Fangqiong, HAN Xiao, <a href="#">CHOW Chi Yin</a>, "Unsupervised Adverbial Identification in Modern Chinese Literature", <i>Proceedings of the 5th Joint SIGHUM Workshop on Computational Linguistics for Cultural Heritage, Social Sciences, Humanities and Literature</i>, Virtual, Punta Cana, Dominican Republic, 07-11 November 2021, pp 91-95.</p>   |
| <b>XU Jie</b>        | <p>#<a href="#">XU Jie</a>, CHENG Yingying, WANG Cong, JIA Xiaohua, "Occam: A Secure and Adaptive Scaling Scheme for Permissionless Blockchain", <i>Proceedings - 2021 IEEE 41st International Conference on Distributed Computing Systems ICDCS 2021</i>, Virtual, Washington, United States, 07-10 July 2021, pp 618-628, (ISBN: 9781665445139,9781665445146).</p>   |
| <b>YAN Guangfeng</b> | <p>#<a href="#">YAN Guangfeng</a>, HUANG Shaolun, LAN Tian, <a href="#">SONG Lingqi</a>, "DQ-SGD: Dynamic Quantization in SGD for Communication-Efficient Distributed Learning", <i>Proceedings: 2021 IEEE 18th International Conference on Mobile Ad Hoc and Smart Systems - MASS 2021</i>, Virtual, Denver, CO, United States, 04-07 October 2021, pp 136-144, (ISBN: 9781665449359,9781665449366).</p>  |
| <b>YANG Huanqi</b>   | <p>#<a href="#">YANG Huanqi</a>, LIU Hongbo, WU Yuezhong, LUO Chengwen, LI Wei, ZOMAYA Albert Y., <a href="#">SONG Lingqi</a>, <a href="#">XU Weitao</a>, "Vehicle-key: A secret key establishment scheme for LoRa-enabled IoV communications", <i>IEEE International Conference on Distributed Computing Systems (ICDCS)</i>.</p>   |
| <b>YANG Ni</b>       | <p>#<a href="#">YANG Ni</a>, WANG Chenhao, LI Bo, "Pool Block Withholding Attack with Rational Miners", <i>Frontiers of Algorithmics - International Joint Conference, IJCS-FAW 2021, Proceedings</i>,</p>   |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | Peking University (Virtual), Beijing, China, 16-20 August 2021, pp 3-22, (ISBN: 9783030970987,9783030970994).   |
| <b>YANG Zhen</b>    | #WEI Zhengyuan, #WANG Haipeng, #YANG Zhen, CHAN Wing Kwong, "SEbox4DL: A Modular Software Engineering Toolbox for Deep Learning Models", <i>2022 IEEE/ACM 44th International Conference on Software Engineering: Companion Proceedings - ICSE-Companion 2022</i> , David Lawrence Convention Center (May 8-20, virtual, May 22-27, in-person), Pittsburgh, United States, 08-27 May 2022, pp 193-196, (ISBN: 978-1-6654-9598-1,978-1-6654-9599-8).  |
| <b>YANG Zhiyuan</b> | LI Xi, #YANG Zhiyuan, ZHANG Qingfu, "Pareto Set Learning for Neural Multi-Objective Combinatorial Optimization", <i>10th International Conference on Learning Representations (ICLR 2022)</i> , Virtual, 25-29 April 2022.  |
| <b>YE Luyao</b>     | #ZHOU Zikang, #YE Luyao, WANG Jianping, WU Kui, LU Kejie, "HiVT: Hierarchical Vector Transformer for Multi-Agent Motion Prediction", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 8823-8833.   |
| <b>YE Min</b>       | LI Qiao, #YE Min, KUO Tei-Wei, XUE Chun Jason, "How the common retention acceleration method of 3D NAND flash memory goes wrong?", <i>HotStorage 2021 - Proceedings of the 13th ACM Workshop on Hot Topics in Storage and File Systems</i> , Virtual, United States, 27-28 July 2021, pp 1-7, (ISBN: 9781450385503).  |
| <b>YE Shuquan</b>   | #YE Shuquan, CHEN Dongdong, HAN Songfang, LIAO Jing, "Learning with Noisy Labels for Robust Point Cloud Segmentation", <i>Proceedings - 2021 IEEE/CVF International Conference on Computer Vision - ICCV 2021</i> , Virtual, Montreal, QC, Canada, 11-17 October 2021, pp 6423-6432, (ISBN: 978-1-6654-2813-2,9781665428125).   |
| <b>ZENG Yiming</b>  | #TANG Yingzhi, #QIAN Yue, #ZHANG Qijian, #ZENG Yiming, HOU Junhui, ZHE Xuefei, "WarpingGAN: Warping Multiple Uniform Priors for Adversarial 3D Point Cloud Generation", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6397-6405.<br>#ZENG Yiming, #QIAN Yue, #ZHANG Qijian, HOU Junhui, YUAN Yixuan, HE Ying, "IDEA-Net: Dynamic 3D Point Cloud Interpolation via Deep Embedding Alignment", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition - CVPR 2022</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6338-6347. |
| <b>ZENG Zhi</b>     | #ZENG Zhi, CHOW Chi Yin, LI Ning, "DA-BERT: Enhancing Knowledge Selection in Dialog via Domain Adapted BERT with Dynamic Masking Probability", <i>Proceedings - 2021 IEEE International Conference on Smart Computing, SMARTCOMP 2021</i> , Virtual, Irvine, United States, 23-27 August 2021, pp 145-152, (ISBN: 978-1-6654-1252-0,978-1-6654-2949-8).   |
| <b>ZHAN Xueying</b> | #ZHAN Xueying, LI Qing, CHAN Antoni Bert, "Multiple-criteria Based Active Learning with Fixed-size Determinantal Point Processes", <i>ICML Workshop on Subset Selection in Machine Learning: From Theory to Applications</i> .<br>#ZHAN Xueying, LIU Huan, LI Qing, CHAN Antoni Bert, "A Comparative Survey: Benchmarking for Pool-based Active Learning", <i>Proceedings of the Thirtieth International Joint Conference on Artificial Intelligence (IJCAI-21)</i> , Virtual, Online, Canada, 19-27 August 2021, pp 4679-4686, (ISBN: 978-0-9992411-9-6).  |
| <b>ZHANG Chen</b>   | ZENG Guotai, DU Hongwei, YE Qiang, #ZHANG Chen, "Collaborative Service Placement for Maximizing the Profit in Mobile Edge Computing", <i>2021 IEEE Global Communications Conference (GLOBECOM) - Proceedings</i> , Ifema Madrid (In-Person & Virtual), Madrid, Spain, 07-11 December 2021, (ISBN: 978-1-7281-8105-9,9781728181042).   |
| <b>ZHANG Hao</b>    | #ZHANG Hao, CHAN Wing Kwong, "Plum: Exploration and Prioritization of Model Repair Strategies for Fixing Deep Learning Models", <i>Proceedings - 2021 8th International Conference on Dependable Systems and Their Applications, DSA 2021</i> , North Minzu University, Yinchuan, China, 11-12 September 2021, pp 140-151, (ISBN: 978-1-6654-4391-3,978-1-6654-4392-0).   |
| <b>ZHANG Jingbo</b> | #WAN Ziyu, #ZHANG Jingbo, CHEN Dongdong, LIAO Jing, "High-Fidelity Pluralistic Image Completion with Transformers", <i>Proceedings - 2021 IEEE/CVF International Conference on Computer Vision - ICCV 2021</i> , Virtual, Montreal, QC, Canada, 11-17 October 2021, pp 4672-4681, (ISBN: 978-1-6654-2813-2,9781665428125).  |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
| <b>ZHANG Miao</b>    | #FENG Shuo, <u>KEUNG Wai Jacky</u> , LIU Jie, XIAO Yan, YU Xiao, #ZHANG Miao, "ROCT: Radius-based class overlap cleaning technique to alleviate the class overlap problem in software defect prediction", <i>Proceedings - 2021 IEEE 45th Annual Computers, Software, and Applications Conference, COMPSAC 2021</i> , Virtual, Spain, 12-16 July 2021, pp 228-237, (ISBN: 9781665424639).  |
| <b>ZHANG Qijian</b>  | #TANG Yingzhi, #QIAN Yue, #ZHANG Qijian, #ZENG Yiming, <u>HOU Junhui</u> , ZHE Xuefei, "WarpingGAN: Warping Multiple Uniform Priors for Adversarial 3D Point Cloud Generation", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6397-6405.<br>#ZENG Yiming, #QIAN Yue, #ZHANG Qijian, <u>HOU Junhui</u> , <u>YUAN Yixuan</u> , HE Ying, "IDEA-Net: Dynamic 3D Point Cloud Interpolation via Deep Embedding Alignment", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition - CVPR 2022</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 6338-6347.                          |
| <b>ZHANG Ruilong</b> | LI Bo, <u>LI Minming</u> , #ZHANG Ruilong, "Fair Scheduling for Time-dependent Resources", <i>NeurIPS Proceedings - Advances in Neural Information Processing Systems 34 (NeurIPS 2021)</i> , Virtual, Los Angeles, United States, 06-14 December 2021, pp 21744-21756, (ISBN: 9781713845393).   |
| <b>ZHANG Yang</b>    | #AZZAM Mohamed Said Mahmoud, WU Si, #ZHANG Yang, #GNANHA Tohokantche Aurele, <u>WONG Hau San</u> , "Adversarially Smoothed Feature Alignment for Visual Domain Adaptation", <i>2021 International Joint Conference on Neural Networks (IJCNN) Proceedings</i> , Virtual, 18-22 July 2021, (ISBN: 978-0-7381-3366-9,978-1-6654-3900-8,978-1-6654-4597-9).<br>LI Guanyue, LIU Yi, WEI Xiwen, #ZHANG Yang, WU Si, XU Yong, <u>WONG Hau San</u> , "Discovering Density-Preserving Latent Space Walks in GANs for Semantic Image Transformations", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 1562-1570, (ISBN: 9781450386517). |
| <b>ZHAO Chao</b>     | #WANG Xu, AL-BASHABSHEH Ali , #ZHAO Chao, <u>CHAN Chung</u> , "Smoothed InfoNCE: Breaking the log N Curse without Overshooting", <i>2022 IEEE International Symposium on Information Theory (ISIT)</i> , Espoo, Finland, 26 June - 01 July 2022, pp 724-729, (ISBN: 978-1-6654-2159-1,978-1-6654-2160-7).<br>#WANG Xu, AL-BASHABSHEH Ali, #ZHAO Chao, <u>CHAN Chung</u> , "Adaptive Label Smoothing for Classifier-based Mutual Information Neural Estimation", <i>2021 IEEE International Symposium on Information Theory - Proceedings</i> , Virtual, Melbourne, Australia, 12-20 July 2021, pp 1035-1040, (ISBN: 978-1-5386-8209-8,978-1-5386-8210-4).  |
| <b>ZHENG Xiang</b>   | WANG Shengjie, #ZHENG Xiang, CAO Yuxue, ZHANG Tao, "A Multi-Target Trajectory Planning of a 6-DoF Free-Floating Space Robot via Reinforcement Learning", <i>2021 IROS - IEEE/RSJ International Conference on Intelligent Robots and Systems - CONFERENCE DIGEST</i> , Online, Prague, Czech Republic, 27 September - 01 October 2021, pp 3724-3730, (ISBN: 978-1-6654-1714-3,978-1-6654-1715-0).<br>WANG Shengjie, CAO Yuxue, #ZHENG Xiang, ZHANG Tao, "An End-to-End Trajectory Planning Strategy for Free-floating Space Robots", <i>Proceedings of the 40th Chinese Control Conference</i> , Shanghai University and, Shanghai, China, 26-28 July 2021, pp 4236-4241, (ISBN: 9781665411950,9789881563804).                            |
| <b>ZHOU Anxin</b>    | #LIAN Rui, #ZHOU Anxin, ZHENG Yifeng, <u>WANG Cong</u> , "Towards Secure and Trustworthy Crowdsourcing with Versatile Data Analytics", <i>Quality, Reliability, Security and Robustness in Heterogeneous Systems - 17th EAI International Conference, QShine 2021, Virtual Event, November 29-30, 2021, Proceedings</i> , Virtual, 29-30 November 2021, pp 42-53, (ISBN: 978-3-030-91423-3,978-3-030-91424-0 ).  |
| <b>ZHOU Houyu</b>    | ELKIND Edith, <u>LI Minming</u> , #ZHOU Houyu, "Facility Location With Approval Preferences: Strategyproofness and Fairness", <i>AAMAS' 22 - Proceedings of the 21st International Conference on Autonomous Agents and Multiagent Systems</i> , pp 391-399, (ISBN: 978-1-4503-9213-6).   |
| <b>ZHOU Xun</b>      | #ZHOU Xun, QIN A. K., SUN Yanan, TAN Kay Chen, "A Survey of Advances in Evolutionary Neural Architecture Search", <i>2021 IEEE CONGRESS ON EVOLUTIONARY COMPUTATION -</i>  |

Section A: Publications of PhD Students

|   |   |
|---|---|
|   | 2021 PROCEEDINGS, Virtual, Kraków, Poland, 28 June - 01 July 2021, pp 950-957, (ISBN: 978-1-7281-8392-3,978-1-7281-8393-0,978-1-7281-8394-7).   |
| <b>ZHOU Zikang</b>                                    | #ZHOU Zikang, #YE Luyao, WANG Jianping, WU Kui, LU Kejie, "HiVT: Hierarchical Vector Transformer for Multi-Agent Motion Prediction", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 8823-8833.   |
| <b>ZHU Lei</b>  | #ZHU Lei, XU Ke, #KE Zhanghan, LAU Rynson W H, "Mitigating Intensity Bias in Shadow Detection via Feature Decomposition and Reweighting", <i>Proceedings - 2021 IEEE/CVF International Conference on Computer Vision - ICCV 2021</i> , Virtual, Montreal, QC, Canada, 11-17 October 2021, pp 4682-4691, (ISBN: 9781665428125,9781665428132).  |
| <b>ZHU Lingyu</b>                                     | LI Guo, #CHEN Baoliang, #ZHU Lingyu, HE Qinwen, FAN Hongfei, WANG Shiqi, "PUGCQ: A Large Scale Dataset for Quality Assessment of Professional User-Generated Content", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 3728-3736, (ISBN: 9781450386517).   |
| <b>ZHU Zhiyu</b>                                      | #LYU Xianqiang, #ZHU Zhiyu, #GUO Mantang, #JIN Jing, HOU Junhui, ZENG Huanqiang, "Learning Spatial-angular Fusion for Compressive Light Field Imaging in a Cycle-consistent Framework", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 4613-4621, (ISBN: 9781450386517).<br>#ZHU Zhiyu, #LIU Hui, HOU Junhui, ZENG Huanqiang, ZHANG Qingfu, "Semantic-embedded Unsupervised Spectral Reconstruction from Single RGB Images in the Wild", <i>2021 IEEE/CVF International Conference on Computer Vision ICCV 2021 - Proceedings</i> , Virtual, 11-17 October 2021, pp 2259-2268, (ISBN: 978-1-6654-2812-5,978-1-6654-2813-2). |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>DING Keyan</b>                                     | #DING Keyan, MA Kede, WANG Shiqi, "Method, Device And Computer Readable Medium for Intrinsic Popularity Evaluation And Content Compression Based Thereon", Licensing Agreement with ICT & AI, Hong Kong, 31 May 2022.   |
| <b>LIU Ziquan</b>                                     | KUO Tei-Wei, #LIU Ziquan, LI Qiao, CHAN Antoni Bert, CUI Yufei, #YAO Wuguannan, XUE Chun Jason, "Artificial Neural Network Configuration And Deployment", Licensing Agreement with Fintech, Hong Kong, 19 May 2022.   |
| <b>All other outputs</b>                              |   |
| <b>AZZAM Mohamed Said Mahmoud</b>                     | #AZZAM Mohamed Said Mahmoud, <i>Deep Unsupervised Visual Domain Adaptation via Discriminative Adversarial Learning</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 30 July 2021.  |
| <b>CAO Jingchao</b>                                   | #CAO Jingchao, <i>No-reference Image Quality Assessment by Traditional Machine Learning and Deep Learning</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 05 January 2022.  |
| <b>CHEN Baoliang</b>                                  | #CHEN Baoliang, <i>Visual Quality Assessment and Optimization: Exploring Generalization Capability</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 03 May 2022.   |
| <b>CHEN Tao</b>                                       | #CHEN Tao, <i>Embedding Bits in the Over-the-Air Sounds: Threat and Countermeasure</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 07 September 2021.   |
| <b>CHEN Xinhong</b>                                   | #CHEN Xinhong, <i>Extracting Causal Relations and Recognizing Casual Conditions for Emotion Understanding in Texts</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 17 May 2022.   |
| <b>DING Keyan</b>                                     | #DING Keyan, <i>Deep Learning-Based Image Quality and Popularity Assessment</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.   |
| <b>DU Yuefeng</b>                                     | #DU Yuefeng, <i>Building a Secure and Practical Decentralized Storage Auditing Framework</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 03 May 2022.   |

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|---|--|
| <b>FENG Shuo</b>                        | #FENG Shuo, <i>Improving Software Defect Prediction by Developing Techniques for Alleviating the Class Imbalance and the Class Overlap Problems</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.  |
| <b>HUANG Endai</b>                      | #HUANG Endai, 2nd Place in 2021 AOC Student Presentation Competition, 2021 American Society of Agricultural and Biological Engineers Annual International Meeting (ASABE 2021), Association of Overseas Chinese Agricultural, Biological, and Food Engineers., July 2021.  |
| <b>HUANG Jialu</b>                      | #HUANG Jialu, <i>Image Synthesis and Image-to-Image Translation based on Generative Adversarial Network</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| <b>HUANG Zhian</b>                      | #HUANG Zhian, <i>Deep Learning Research for Identification of Autism Spectrum Disorder</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 02 August 2021.   |
| <b>JIN Jing</b>                         | #JIN Jing, <i>Learning to Reconstruct High-quality 4D Light Fields</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 04 November 2021.   |
| <b>KABIR Md Alamgir</b>                 | #KABIR Md Alamgir, <i>Comprehensive Investigation of Concept Drift on the Performance of Software Defect Prediction Models</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.   |
| <b>LEDWABA Lehlogonolo Polaki Iviwe</b> | #LEDWABA Lehlogonolo Polaki Iviwe, <i>Securing Rural Microgrids with Distributed Ledger Technology for the Industrial Internet of Things</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.   |
| <b>LI Xinqi</b>                         | #LI Xinqi, <i>Nonnegative Matrix Factorization and Hash Bit Selection Based on Collaborative Neurodynamic Optimization</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>LI Zongxi</b>                        | #LI Zongxi, <i>Towards Improved Text Emotion Classification: Lexicon, Domain Knowledge, and Global Information</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 21 March 2022.  |
| <b>LIN Jiecong</b>                      | #LIN Jiecong, <i>Deep Learning Models for Genomic Sequences: CRISPR/Cas9 Off-Targets and DNA Motifs</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.  |
| <b>LING Lin</b>                         | #LING Lin, <i>Artificial Intelligence Through Convex Optimization and Crowdsourced Computation</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 17 September 2021.  |
| <b>LIU Hui</b>                          | #LIU Hui, <i>Learning Methods for Adaptive Graphs in Data Analysis</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 30 August 2021.   |
| <b>LIU Songbai</b>                      | #LIU Songbai, <i>Learning-Driven Evolutionary Algorithms for Complex Multiobjective Optimization</i> , PhD Thesis, Department of Computer Science, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 21 June 2022.<br>#LIU Songbai, <i>Learning-Driven Evolutionary Algorithms for Complex Multiobjective Optimization (複雜多目標優化的學習驅動型進化算法)</i> , PhD Thesis, Department of Computer Science, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 21 June 2022. |
| <b>NI Zhangkai</b>                      | #NI Zhangkai, <i>Unsupervised Learning for Image Enhancement</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.   |
| <b>QIAN Yue</b>                         | #QIAN Yue, <i>Interpretable Deep Learning Frameworks for 3D Point Cloud Sampling</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 23 November 2021.   |
| <b>QIU Zhenyu</b>                       | #QIU Zhenyu, <i>A Study on the Representation Learning Method of Temporal Social Networks</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 27 June 2022.  |
| <b>SHEN Xuelin</b>                      | #SHEN Xuelin, <i>Just-Noticeable-Distortion Optimization: From Methodology to Application</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 23 November 2021.  |

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| <b>SUN Xuan</b>                             | # <u>SUN Xuan</u> , <i>Near Data Computing with FPGA</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 03 December 2021.   |
| <b>TAN Xin</b>                              | # <u>TAN Xin</u> , <i>Computational Prior-Based Learning for Scene Understanding</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 23 June 2022.   |
| <b>WAN Jia</b>                              | # <u>WAN Jia</u> , <i>Robust Representation Learning for Crowd Counting and Its Applications</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 23 August 2021.   |
| <b>WANG Meng</b>                            | # <u>WANG Meng</u> , <i>Content Adaptive Compression and Optimization Techniques for Video Coding</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| <b>WANG Qingzhong</b>                       | # <u>WANG Qingzhong</u> , <i>Bridging Vision and Language via Image Captioning</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 September 2021.  |
| <b>WANG Ruohan</b>                          | # <u>WANG Ruohan</u> , <i>Pattern Recognition in Biological Sequences and Matrices</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 22 June 2022.   |
| <b>WANG Zhihua</b>                          | # <u>WANG Zhihua</u> , <i>Towards Generalizable Blind Image Quality Assessment</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 March 2022.  |
| <b>YUAN Chen</b>                            | # <u>YUAN Chen</u> , Highly Cited Research Article, Journal of Safety Research, Volume 74, September 2020, Pages 55-69<br>This award has been given according to the most cited research articles by March 2022, published in 2020., Journal of Safety Research, Elsevier, March 2022. |
| <b>ZENG Zhi</b>                             | # <u>ZENG Zhi</u> , <i>Pre-trained Model Based Approaches for Task Oriented Dialogue System</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 May 2022.   |
| <b>ZHANG Hao</b>                            | # <u>ZHANG Hao</u> , <i>Optimizing Deep Learning Models through Diversity and Differentiation</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.  |
| <b>ZHANG Jindi</b>                          | # <u>ZHANG Jindi</u> , <i>Sensor Data Validation and Driving Safety in Autonomous Driving Systems</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 18 January 2022.   |
| <b>ZHANG Jingyi</b>                         | # <u>ZHANG Jingyi</u> , <i>Securing Ad-hoc Connections over Wireless Short-range Communication Channels</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 19 August 2021.  |
| <b>ZHANG Miao</b>                           | # <u>ZHANG Miao</u> , <i>Enhancing the Efficiency of Object-Oriented Software Integration Testing Using Similar-Component Identification</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.                               |
| <b>ZHANG Qiudan</b>                         | # <u>ZHANG Qiudan</u> , <i>Deep Learning-Based Saliency Detection for 3D Scenes</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| <b>ZHANG Yifan</b>                          | # <u>ZHANG Yifan</u> , <i>Human Driving Behavior Modeling and Applications in Autonomous Driving</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 14 April 2022.  |
| <b>ZHOU Yong</b>                            | # <u>ZHOU Yong</u> , <i>Decoding Gastroesophageal Cancer Genomes</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 16 June 2022.   |
| <b>ZHU Bin</b>                              | # <u>ZHU Bin</u> , <i>Learning Compatible, Self-Explainable, Transferable Features for Cross-Modal Recipe Retrieval</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 17 August 2021.  |
| <b>ZHU Qingling</b>                         | # <u>ZHU Qingling</u> , <i>Multi-Objective Evolutionary Algorithms: From Manual Design to Automatic Design</i> , PhD Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 19 July 2021.   |
| <b>DEPARTMENT OF ELECTRICAL ENGINEERING</b> |  |
| Scholarly books, monographs and chapters    |  |

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|---------------------------------|--|
| <b>ADEGOKE Muideen Adeniyi</b>  | #ADEGOKE Muideen Adeniyi, #XIAO Yuqi, LEUNG Chi Sing Andrew, LEUNG Kwok Wa, "A Robust ELM Algorithm for Compensating the Effect of Node Fault and Weight Noise", <i>Recent Advances in Soft Computing and Data Mining - Proceedings of the Fifth International Conference on Soft Computing and Data Mining (SCDM 2022), May 30-31, 2022</i> , Abawajy Jemal H., Arbaiy Nureize, Deris Mustafa Mat, Ghazali Rozaida and Nawi Nazri Mohd (eds), Springer, ISBN: 978-3-031-00828-3,9783031008276, Cham, 04 May 2022, pp 69-78. |
| <b>CHEN Xueli</b>               | CHIU Bernard Chi Yuen, #ZHAO Yuan, #CHEN Xueli, "Three-Dimensional Ultrasound for Sensitive Assessment of the Effects of Nutritional Therapy on Carotid Atherosclerosis", <i>Biomarkers in Nutrition</i> , Patel Vinood B. and Preedy Victor R. (eds), Springer, Cham, ISBN: 978-3-030-81304-8, 15 June 2022.  |
| <b>XIAO Yuqi</b>                | #ADEGOKE Muideen Adeniyi, #XIAO Yuqi, LEUNG Chi Sing Andrew, LEUNG Kwok Wa, "A Robust ELM Algorithm for Compensating the Effect of Node Fault and Weight Noise", <i>Recent Advances in Soft Computing and Data Mining - Proceedings of the Fifth International Conference on Soft Computing and Data Mining (SCDM 2022), May 30-31, 2022</i> , Abawajy Jemal H., Arbaiy Nureize, Deris Mustafa Mat, Ghazali Rozaida and Nawi Nazri Mohd (eds), Springer, ISBN: 978-3-031-00828-3,9783031008276, Cham, 04 May 2022, pp 69-78. |
| <b>ZHAO Yuan</b>                | CHIU Bernard Chi Yuen, #ZHAO Yuan, #CHEN Xueli, "Three-Dimensional Ultrasound for Sensitive Assessment of the Effects of Nutritional Therapy on Carotid Atherosclerosis", <i>Biomarkers in Nutrition</i> , Patel Vinood B. and Preedy Victor R. (eds), Springer, Cham, ISBN: 978-3-030-81304-8, 15 June 2022.  |
| <b>Journal publications</b>     |  |
| <b>AGADAGBA Stephen Kugbere</b> | YU Wing-Shan, KWON So-Hyun, #AGADAGBA Stephen Kugbere, CHAN L H Leanne, WONG Kah-Hui, LIM Lee Wei, "Neuroprotective effects and therapeutic potential of transcorneal electrical stimulation for depression", <i>Cells</i> , 10(9), 21 September 2021, doi: <a href="https://doi.org/10.3390/cells10092492">https://doi.org/10.3390/cells10092492</a> .  |
|                                 | YU Wing-Shan, TSE Anna Chung-Kwan, GUAN Li, CHIU Jennifer Lok Yu, TAN Shawn Zheng Kai, KHAIRUDDIN Sharafuddin, #AGADAGBA Stephen Kugbere, LO Amy Cheuk Yin, FUNG Man-Lung, CHAN Ying-Shing, CHAN L H Leanne, LIM Lee Wei, "Antidepressant-like effects of transcorneal electrical stimulation in rat models", <i>Brain Stimulation</i> , 15(3), 28 May 2022, pp 843-856, doi: <a href="https://doi.org/10.1016/j.brs.2022.05.018">https://doi.org/10.1016/j.brs.2022.05.018</a> .  |
|                                 | #CHOWDHURY Mehdi Hasan, #ELDALY Abdelrahman Bakr Mohammed Abdelnaby, #AGADAGBA Stephen Kugbere, CHEUNG Chak Chung Ray, CHAN L H Leanne, "Machine Learning Based Hardware Architecture for DOA Measurement from Mice EEG", <i>IEEE Transactions on Biomedical Engineering</i> , 69(1), 05 August 2021, pp 314-324, doi: <a href="https://doi.org/10.1109/TBME.2021.3093037">https://doi.org/10.1109/TBME.2021.3093037</a> .   |
|                                 | #AGADAGBA Stephen Kugbere, #ELDALY Abdelrahman Bakr Mohammed Abdelnaby, CHAN L H Leanne, "Transcorneal Electrical Stimulation Induces Long-Lasting Enhancement of Brain Functional and Directional Connectivity in Retinal Degeneration Mice", <i>Frontiers in Cellular Neuroscience</i> , 16, 07 February 2022, doi: <a href="https://doi.org/10.3389/fncel.2022.785199">https://doi.org/10.3389/fncel.2022.785199</a> .  |
| <b>BEGUM Habiba</b>             | #QIAN Jingui, #BEGUM Habiba, LEE En-yuan Joshua, "Acoustofluidic localization of sparse particles on a piezoelectric resonant sensor for nanogram-scale mass measurements", <i>Microsystems &amp; Nanoengineering</i> , 7, 13 August 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00288-5">https://doi.org/10.1038/s41378-021-00288-5</a> .  |
|                                 | #BEGUM Habiba, #QIAN Jingui, LEE En-yuan Joshua, "Effect of crystal orientation on liquid phase performance of piezoelectric-on-silicon elliptical plate resonators", <i>Sensors and Actuators A: Physical</i> , 340, 07 April 2022, doi: <a href="https://doi.org/10.1016/j.sna.2022.113548">https://doi.org/10.1016/j.sna.2022.113548</a> .  |
|                                 | #BEGUM Habiba, #QIAN Jingui, LEE En-yuan Joshua, "Fully Differential Higher Order Transverse Mode Piezoelectric Membrane Resonators for Enhanced Liquid-Phase Quality Factors", <i>Journal of Micromechanics and Microengineering</i> , 31(10), 03 September 2021, doi: <a href="https://doi.org/10.1088/1361-6439/ac1eee">https://doi.org/10.1088/1361-6439/ac1eee</a> .  |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | # <a href="#">QIAN Jingui</a> , # <a href="#">BEGUM Habiba</a> , <a href="#">LEE En-yuan Joshua</a> , "Acoustic Centrifugation Facilitating Particle Sensing in Liquid on a Piezoelectric Resonator", <i>IEEE Electron Device Letters</i> , 43(5), 25 March 2022, pp 801-804, doi: <a href="https://doi.org/10.1109/led.2022.3162327">https://doi.org/10.1109/led.2022.3162327</a> .   |
| <b>CAI Dehan</b>    | # <a href="#">CAI Dehan</a> , <a href="#">SUN Yanni</a> , "Reconstructing viral haplotypes using long reads", <i>Bioinformatics</i> , 38(8), 14 February 2022, pp 2127–2134, doi: <a href="https://doi.org/10.1093/bioinformatics/btac089">https://doi.org/10.1093/bioinformatics/btac089</a> .  |
|                     | <a href="#">LIU Chen</a> , # <a href="#">CAI Dehan</a> , <a href="#">ZENG WuCha</a> , <a href="#">HUANG Yun</a> , "Inferring Differential Networks by Integrating Gene Expression Data With Additional Knowledge", <i>Frontiers in Genetics</i> , 12, 11 November 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.760155">https://doi.org/10.3389/fgene.2021.760155</a> .   |
|                     | <a href="#">LE OU-YANG</a> , # <a href="#">CAI Dehan</a> , <a href="#">ZHANG Xiao-Fei</a> , <a href="#">YAN Hong</a> , "WDNE: an integrative graphical model for inferring differential networks from multi-platform gene expression data with missing values", <i>Briefings in Bioinformatics</i> , 22(6), November 2021, doi: <a href="https://doi.org/10.1093/bib/bbab086">https://doi.org/10.1093/bib/bbab086</a> .  |
|                     | # <a href="#">LIAO Herui</a> , # <a href="#">CAI Dehan</a> , <a href="#">SUN Yanni</a> , "VirStrain: a strain identification tool for RNA viruses", <i>Genome Biology</i> , 23(1), 31 January 2022, doi: <a href="https://doi.org/10.1186/s13059-022-02609-x">https://doi.org/10.1186/s13059-022-02609-x</a> .   |
| <b>CHEN Hui</b>     | # <a href="#">CHEN Hui</a> , <a href="#">LUK Kwai Man</a> , "An On-Body Matched Differentially-Fed Magneto-Electric Dipole Antenna for Head Imaging Systems", <i>IEEE Transactions on Antennas and Propagation</i> , 24 June 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3184512">https://doi.org/10.1109/TAP.2022.3184512</a> .  |
| <b>CHEN Wenting</b> | # <a href="#">CHEN Wenting</a> , <a href="#">YU Shuang</a> , <a href="#">MA Kai</a> , <a href="#">JI Wei</a> , <a href="#">BIAN Cheng</a> , <a href="#">CHU Chunyan</a> , <a href="#">SHEN Linlin</a> , <a href="#">ZHENG Yefeng</a> , "TW-GAN: Topology and width aware GAN for retinal artery/vein classification", <i>Medical Image Analysis</i> , 77, 23 December 2021, doi: <a href="https://doi.org/10.1016/j.media.2021.102340">https://doi.org/10.1016/j.media.2021.102340</a> .           |
| <b>CHEN Zhaoxi</b>  | # <a href="#">CHEN Zhaoxi</a> , # <a href="#">YANG Jingwei</a> , <a href="#">WONG Wing Han Polis</a> , <a href="#">PUN Yue Bun Edwin</a> , <a href="#">WANG Cheng</a> , "Broadband adiabatic polarization rotator-splitter based on a lithium niobate on insulator platform", <i>Photonics Research</i> , 9(12), 08 November 2021, pp 2319-2324, doi: <a href="https://doi.org/10.1364/PRJ.432906">https://doi.org/10.1364/PRJ.432906</a> .  |
|                     | <a href="#">XU Qing</a> , <a href="#">CHEN Feng</a> , # <a href="#">CHEN Zhaoxi</a> , <a href="#">WANG Cheng</a> , <a href="#">PUN Yue Bun Edwin</a> , <a href="#">ZHANG De-Long</a> , "Er <sup>3+</sup> -Doped Lithium Niobate Thin Film: A Material Platform for Ultracompact, Highly Efficient Active Microphotonic Devices", <i>Advanced Photonics Research</i> , 2(12), 23 September 2021, doi: <a href="https://doi.org/10.1002/adpr.202100081">https://doi.org/10.1002/adpr.202100081</a> . |
| <b>CHEN Zhen</b>    | # <a href="#">LI Wuyang</a> , # <a href="#">CHEN Zhen</a> , <a href="#">LI Baopu</a> , <a href="#">ZHANG Dingwen</a> , <a href="#">YUAN Yixuan</a> , "HTD: Heterogeneous task decoupling for two-stage object detection", <i>IEEE Transactions on Image Processing</i> , 30, 15 November 2021, pp 9456-9469, doi: <a href="https://doi.org/10.1109/TIP.2021.3126423">https://doi.org/10.1109/TIP.2021.3126423</a> .  |
|                     | # <a href="#">YANG Chen</a> , # <a href="#">GUO Xiaoqing</a> , # <a href="#">CHEN Zhen</a> , <a href="#">YUAN Yixuan</a> , "Source free domain adaptation for medical image segmentation with fourier style mining", <i>Medical Image Analysis</i> , 79, 12 April 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102457">https://doi.org/10.1016/j.media.2022.102457</a> .   |
|                     | # <a href="#">YANG Qiushi</a> , # <a href="#">GUO Xiaoqing</a> , # <a href="#">CHEN Zhen</a> , <a href="#">WOO Peter Y.M.</a> , <a href="#">YUAN Yixuan</a> , "D2-Net: Dual Disentanglement Network for Brain Tumor Segmentation with Missing Modalities", <i>IEEE Transactions on Medical Imaging</i> , 16 May 2022, doi: <a href="https://doi.org/10.1109/TMI.2022.3175478">https://doi.org/10.1109/TMI.2022.3175478</a> .   |
|                     | # <a href="#">GUO Xiaoqing</a> , # <a href="#">CHEN Zhen</a> , <a href="#">LIU Jun</a> , <a href="#">YUAN Yixuan</a> , "Non-equivalent images and pixels: Confidence-aware resampling with meta-learning mixup for polyp segmentation", <i>Medical Image Analysis</i> , 78, 18 February 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102394">https://doi.org/10.1016/j.media.2022.102394</a> .   |
|                     | # <a href="#">CHEN Zhen</a> , # <a href="#">LIU Jie</a> , # <a href="#">ZHU Meilu</a> , <a href="#">WOO Peter Y.M.</a> , <a href="#">YUAN Yixuan</a> , "Instance importance-Aware graph convolutional network for 3D medical diagnosis", <i>Medical Image Analysis</i> , 78, 18 March 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102421">https://doi.org/10.1016/j.media.2022.102421</a> .   |
| <b>CHENG Yijun</b>  | <a href="#">CHEN X.</a> , <a href="#">XU Yuanhao</a> , # <a href="#">CHENG Yijun</a> , <a href="#">PANG Stella W.</a> , "Engineered barriers regulate osteoblast cell migration in vertical direction", <i>Scientific Reports</i> , 12, 15 March 2022, doi: <a href="https://doi.org/10.1038/s41598-022-08262-5">https://doi.org/10.1038/s41598-022-08262-5</a> .  |
| <b>CHENG Yiyao</b>  | # <a href="#">CHENG Yiyao</a> , <a href="#">VAN WYK Michaël Antonie</a> , <a href="#">LI Ping</a> , "Orthogonal AMP Detection Techniques for Massive Access over OFDM", <i>IEEE Communications Letters</i> , 25(10), 09 August 2021, pp 3384-3388, doi: <a href="https://doi.org/10.1109/LCOMM.2021.3103420">https://doi.org/10.1109/LCOMM.2021.3103420</a> .  |



Section A: Publications of PhD Students

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|---|--|
| <b>CHOWDHURY Mehdi Hasan</b>                      | # <a href="#">CHOWDHURY Mehdi Hasan</a> , # <a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a> , # <a href="#">AGADAGBA Stephen Kugbere</a> , <a href="#">CHEUNG Chak Chung Ray</a> , <a href="#">CHAN L H Leanne</a> , "Machine Learning Based Hardware Architecture for DOA Measurement from Mice EEG", <i>IEEE Transactions on Biomedical Engineering</i> , 69(1), 05 August 2021, pp 314-324, doi: <a href="https://doi.org/10.1109/TBME.2021.3093037">https://doi.org/10.1109/TBME.2021.3093037</a> .   |
| <b>DAI Xin</b>                                    | # <a href="#">XIANG Bingjie</a> , # <a href="#">DAI Xin</a> , <a href="#">LUK Kwai Man</a> , "A Wideband 2-Bit Transmitarray Antenna for Millimeter-Wave Vehicular Communication", <i>IEEE Transactions on Vehicular Technology</i> , 71(9), 30 May 2022, pp 9202-9211, doi: <a href="https://doi.org/10.1109/TVT.2022.3178843">https://doi.org/10.1109/TVT.2022.3178843</a> .<br># <a href="#">DAI Xin</a> , <a href="#">WU Gengbo</a> , <a href="#">LUK Kwai Man</a> , "A Wideband Low-Profile Reconfigurable Transmitarray Using Magnetoelectric Dipole Elements", <i>IEEE Transactions on Antennas and Propagation</i> , 07 April 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3164185">https://doi.org/10.1109/TAP.2022.3164185</a> .   |
| <b>DENG Feiyang</b>                               | <a href="#">SHEN Xiangyu</a> , <a href="#">JIANG Hongbo</a> , <a href="#">LIU Daibo</a> , <a href="#">YANG Kehua</a> , # <a href="#">DENG Feiyang</a> , <a href="#">LUI John C.S.</a> , <a href="#">LIU Jiangchuan</a> , <a href="#">DUSTDAR Schahram</a> , <a href="#">LUO Jun</a> , "PupilRec: Leveraging Pupil Morphology for Recommending on Smartphones", <i>IEEE Internet of Things Journal</i> , 9(17), 09 June 2022, pp 15538-15553, doi: <a href="https://doi.org/10.1109/JIOT.2022.3181607">https://doi.org/10.1109/JIOT.2022.3181607</a> .  |
| <b>DUAN Qiyou</b>                                 | # <a href="#">DUAN Qiyou</a> , <a href="#">KIM Taejoon</a> , <a href="#">GHAUCH Hadi</a> , "KM Learning for Millimeter-Wave Beam Alignment and Tracking: Predictability and Interpretability", <i>IEEE Access</i> , 9, 24 August 2021, pp 117204-117216, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3107419">https://doi.org/10.1109/ACCESS.2021.3107419</a> .  |
| <b>ELDALY Abdelrahman Bakr Mohammed Abdelnaby</b> | # <a href="#">CHOWDHURY Mehdi Hasan</a> , # <a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a> , # <a href="#">AGADAGBA Stephen Kugbere</a> , <a href="#">CHEUNG Chak Chung Ray</a> , <a href="#">CHAN L H Leanne</a> , "Machine Learning Based Hardware Architecture for DOA Measurement from Mice EEG", <i>IEEE Transactions on Biomedical Engineering</i> , 69(1), 05 August 2021, pp 314-324, doi: <a href="https://doi.org/10.1109/TBME.2021.3093037">https://doi.org/10.1109/TBME.2021.3093037</a> .<br># <a href="#">AGADAGBA Stephen Kugbere</a> , # <a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a> , <a href="#">CHAN L H Leanne</a> , "Transcorneal Electrical Stimulation Induces Long-Lasting Enhancement of Brain Functional and Directional Connectivity in Retinal Degeneration Mice", <i>Frontiers in Cellular Neuroscience</i> , 16, 07 February 2022, doi: <a href="https://doi.org/10.3389/fncel.2022.785199">https://doi.org/10.3389/fncel.2022.785199</a> .<br># <a href="#">MALIK Anju</a> , # <a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a> , <a href="#">CHEN Ke</a> , <a href="#">CHAN L H Leanne</a> , "Neuronal Oscillatory Signatures in the Developing Mouse Visual Cortex After Short-Term Monocular Deprivation", <i>Cerebral Cortex</i> , 32(12), 19 October 2021, pp 2657-2667, doi: <a href="https://doi.org/10.1093/cercor/bhab372">https://doi.org/10.1093/cercor/bhab372</a> .   |
| <b>FAN Xinqi</b>                                  | # <a href="#">FAN Xinqi</a> , # <a href="#">JIANG Mingjie</a> , # <a href="#">SHAHID Ali Raza</a> , <a href="#">YAN Hong</a> , "Hierarchical scale convolutional neural network for facial expression recognition", <i>Cognitive Neurodynamics</i> , 05 January 2022, doi: <a href="https://doi.org/10.1007/s11571-021-09761-3">https://doi.org/10.1007/s11571-021-09761-3</a> .   |
| <b>FANG Junyuan</b>                               | # <a href="#">FANG Junyuan</a> , <a href="#">HUANG Haiyu</a> , <a href="#">WU Jiajing</a> , <a href="#">TSE Chi Kong</a> , "Enhancing Robustness and Transmission Performance of Heterogeneous Complex Networks via Multiobjective Optimization", <i>IEEE Systems Journal</i> , 15(4), 26 August 2021, pp 5221-5232, doi: <a href="https://doi.org/10.1109/JSYST.2021.3101980">https://doi.org/10.1109/JSYST.2021.3101980</a> .<br><a href="#">MA Weijun</a> , # <a href="#">FANG Junyuan</a> , <a href="#">WU Jiajing</a> , "Analyzing Robustness of Complex Networks Against Incomplete Information", <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 69(5), 22 March 2022, pp 2523-2527, doi: <a href="https://doi.org/10.1109/TCSII.2022.3161521">https://doi.org/10.1109/TCSII.2022.3161521</a> .   |
| <b>FENG Fan</b>                                   | # <a href="#">LAN Chuanlin</a> , # <a href="#">FENG Fan</a> , # <a href="#">LIU Qi</a> , <a href="#">SHE Qi</a> , # <a href="#">YANG Qihan</a> , <a href="#">HAO Xinyue</a> , <a href="#">MASHKIN Ivan</a> , <a href="#">KEI Ka Shun</a> , <a href="#">QIANG Dong</a> , <a href="#">LOMONACO Vincenzo</a> , <a href="#">SHI Xuesong</a> , <a href="#">WANG Zhengwei</a> , <a href="#">GUO Yao</a> , <a href="#">ZHANG Yimin</a> , <a href="#">QIAO Fei</a> , <a href="#">CHAN Ho Man</a> , "Towards lifelong object recognition: A dataset and benchmark", <i>Pattern Recognition</i> , 130, 27 May 2022, doi: <a href="https://doi.org/10.1016/j.patcog.2022.108819">https://doi.org/10.1016/j.patcog.2022.108819</a> .<br><a href="#">XOMPERO Alessio</a> , <a href="#">DONAHER Santiago</a> , <a href="#">IASHIN Vladimir</a> , <a href="#">PALERMO Francesca</a> , <a href="#">SOLAK Gokhan</a> , <a href="#">COPPOLA Claudio</a> , <a href="#">ISHIKAWA Reina</a> , <a href="#">NAGAO Yuichi</a> , <a href="#">HACHIUMA Ryo</a> , # <a href="#">LIU Qi</a> , # <a href="#">FENG Fan</a> , # <a href="#">LAN Chuanlin</a> , <a href="#">CHAN Ho Man</a> , <a href="#">CHRISTMANN Guilherme</a> , <a href="#">SONG Jyun-Ting</a> , <a href="#">NEEHARIKA Gonuguntla</a> , <a href="#">REDDY Chinnakotla K. T.</a> , <a href="#">JAIN Dinesh</a> , <a href="#">REHMAN Bakhtawar Ur</a> , <a href="#">CAVALLARO Andrea</a> , "The CORSMAL benchmark for the prediction of the properties of containers", <i>IEEE Access</i> , 10, 12 April 2022, pp 41388-41402, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3166906">https://doi.org/10.1109/ACCESS.2022.3166906</a> . |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
| <b>FENG Zhenan</b>  | #WU Chong, #FENG Zhenan, ZHENG Jiangbin, #ZHANG Houwang, CAO Jiawang, <u>YAN Hong</u> , "Star topology convolution for graph representation learning", <i>Complex &amp; Intelligent Systems</i> , 04 May 2022, doi: <a href="https://doi.org/10.1007/s40747-022-00744-3">https://doi.org/10.1007/s40747-022-00744-3</a> .  |
| <b>GAO Liang</b>    | #GAO Liang, <u>CHAN Chi Hou</u> , "A 0.68–0.72-THz 2-D Scalable Radiator Array With – 3-dBm Radiated Power and 27.3-dBm EIRP in 65-nm CMOS", <i>IEEE Journal of Solid-State Circuits</i> , 08 June 2022, doi: <a href="https://doi.org/10.1109/JSSC.2022.3178721">https://doi.org/10.1109/JSSC.2022.3178721</a> .  |
|                     | #GAO Liang, <u>CHAN Chi Hou</u> , "A 0.45-THz 2-D Scalable Radiator Array With 28.2-dBm EIRP Using an Elliptical Teflon Lens", <i>IEEE Journal of Solid-State Circuits</i> , 57(2), 08 December 2021, pp 400-412, doi: <a href="https://doi.org/10.1109/JSSC.2021.3130235">https://doi.org/10.1109/JSSC.2021.3130235</a> .   |
| <b>GARAJ Martin</b> | #GARAJ Martin, <u>CHUNG Shu Hung Henry</u> , SPATARU Sergiu, LO Alan Wai-Lun, WANG Huai, "A granular modeling method for non-uniform panel degradation based on I–V characterization and electroluminescence imaging", <i>Solar Energy</i> , 227, 09 September 2021, pp 162-178, doi: <a href="https://doi.org/10.1016/j.solener.2021.08.069">https://doi.org/10.1016/j.solener.2021.08.069</a> .                                    |
| <b>GUO Chao</b>     | #WANG Tianjiao, WANG Zengfu, MORAN Bill, #WANG Xinyu, #GUO Chao, <u>ZUKERMAN Moshe</u> , "Latency-Aware Optimization of Submarine Communication Cable Systems with Trunk-and-Branch Topologies", <i>Journal of Lightwave Technology</i> , 27 June 2022, doi: <a href="https://doi.org/10.1109/JLT.2022.3186545">https://doi.org/10.1109/JLT.2022.3186545</a> .   |
|                     | WANG Zhiyuan, #GUO Chao, BOSE Sanjay Kumar, SHEN Gangxiang, "Frequency-Adaptive VDC Embedding to Minimize Energy Consumption of Data Centers", <i>IEEE Transactions on Green Communications and Networking</i> , 6(1), 19 August 2021, pp 447-461, doi: <a href="https://doi.org/10.1109/TGCN.2021.3105934">https://doi.org/10.1109/TGCN.2021.3105934</a> .  |
|                     | #GUO Chao, #WANG Xinyu, SHEN Gangxiang, BOSE Sanjay Kumar, #XU Jiahe, <u>ZUKERMAN Moshe</u> , "Exploring the Benefits of Resource Disaggregation for Service Reliability in Data Centers", <i>IEEE Transactions on Cloud Computing</i> , 16 February 2022, doi: <a href="https://doi.org/10.1109/TCC.2022.3151923">https://doi.org/10.1109/TCC.2022.3151923</a> .  |
| <b>GUO Xiaoqing</b> | #YANG Chen, #GUO Xiaoqing, #CHEN Zhen, <u>YUAN Yixuan</u> , "Source free domain adaptation for medical image segmentation with fourier style mining", <i>Medical Image Analysis</i> , 79, 12 April 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102457">https://doi.org/10.1016/j.media.2022.102457</a> .  |
|                     | #YANG Qiushi, #GUO Xiaoqing, #CHEN Zhen, WOO Peter Y.M., <u>YUAN Yixuan</u> , "D2-Net: Dual Disentanglement Network for Brain Tumor Segmentation with Missing Modalities", <i>IEEE Transactions on Medical Imaging</i> , 16 May 2022, doi: <a href="https://doi.org/10.1109/TMI.2022.3175478">https://doi.org/10.1109/TMI.2022.3175478</a> .   |
|                     | #GUO Xiaoqing, #CHEN Zhen, LIU Jun, <u>YUAN Yixuan</u> , "Non-equivalent images and pixels: Confidence-aware resampling with meta-learning mixup for polyp segmentation", <i>Medical Image Analysis</i> , 78, 18 February 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102394">https://doi.org/10.1016/j.media.2022.102394</a> .   |
|                     | #LIU Jie, #GUO Xiaoqing, <u>YUAN Yixuan</u> , "Graph-based Surgical Instrument Adaptive Segmentation via Domain-Common Knowledge", <i>IEEE Transactions on Medical Imaging</i> , 41(3), 21 October 2021, pp 715-726, doi: <a href="https://doi.org/10.1109/TMI.2021.3121138">https://doi.org/10.1109/TMI.2021.3121138</a> .  |
|                     | WOO Peter Y.M., WONG Desiree K K, <u>YUAN Yixuan</u> , #GUO Xiaoqing, SEE Michael K W, TAM Matthew, WONG Alain K S, CHAN Kwong-Yau, "A Morphometric Analysis of Commonly Used Craniometric Approaches for Freehand Ventriculoperitoneal Shunting", <i>Operative Neurosurgery</i> , 22(2), 22 December 2021, pp 51-60, doi: <a href="https://doi.org/10.1227/ONS.0000000000000047">https://doi.org/10.1227/ONS.0000000000000047</a> . |
|                     | #GUO Xiaoqing, #YANG Chen, <u>YUAN Yixuan</u> , "Dynamic-weighting hierarchical segmentation network for medical images", <i>Medical Image Analysis</i> , 73, 29 July 2021, doi: <a href="https://doi.org/10.1016/j.media.2021.102196">https://doi.org/10.1016/j.media.2021.102196</a> .   |
| <b>GUO Yongna</b>   | ZHANG Mingshan, #GUO Yongna, SALAÜN Lou, <u>SUNG Chi Wan</u> , CHEN Chung Shue, "Proportional Fair Scheduling for Downlink mmWave Multi-User MISO-NOMA Systems", <i>IEEE Transactions on Vehicular Technology</i> , 71(6), 16 March 2022, pp 6308-6321, doi: <a href="https://doi.org/10.1109/TVT.2022.3159612">https://doi.org/10.1109/TVT.2022.3159612</a> .   |
|                     | #MOSTAFA Salwa Said Hamed, <u>SUNG Chi Wan</u> , #GUO Yongna, "Joint Computation and Communication Resource Allocation with NOMA and OMA Offloading for Multi-server Systems in F-RAN", <i>IEEE Access</i> , 10, 17 February 2022, pp 24456-24466, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3152531">https://doi.org/10.1109/ACCESS.2022.3152531</a> .  |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
| <b>HE Jiajun</b>      | #HE Jiajun, CHUN Young Jin, "Performance Analysis for AOA-based Localization under Millimeter-Wave Wireless Networks", <i>IEEE Access</i> , 10, 07 February 2022, pp 17221-17230, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3149915">https://doi.org/10.1109/ACCESS.2022.3149915</a> .   |
|                       | #HE Jiajun, CHUN Young Jin, SO Hing Cheung, "A Unified Analytical Framework for RSS-based Localization Systems", <i>IEEE Internet of Things Journal</i> , 9(9), 21 September 2021, pp 6506-6519, doi: <a href="https://doi.org/10.1109/IJOT.2021.3114232">https://doi.org/10.1109/IJOT.2021.3114232</a> .  |
| <b>HE Liangjun</b>    | #HE Liangjun, CHAN Hau Ping Andy, LI Binghui, "Quantitative study in coupling loss reduction under a large mode-field mismatch using a self-written waveguide", <i>Optics Express</i> , 29(22), 22 October 2021, pp 36745-36757, doi: <a href="https://doi.org/10.1364/OE.435175">https://doi.org/10.1364/OE.435175</a> .  |
| <b>HE Xiaoluo</b>     | #HE Xiaoluo, #QI Chu, WONG Man Hon Alex, "A compact transparent polarization-insensitive metasurface with broadband monostatic and bistatic radar cross-section reduction of millimeter-waves", <i>Journal of Physics D: Applied Physics</i> , 55(35), 20 June 2022, doi: <a href="https://doi.org/10.1088/1361-6463/ac76f3">https://doi.org/10.1088/1361-6463/ac76f3</a> .  |
| <b>HE Yaqing</b>      | #WANG Hao, TSANG Kim Fung, #LIU Yucheng, #WEI Yang, #HE Yaqing, KOO Cheon Hoi, WAN Wai Hin, "A New COVID-19 Quarantine Directive: QDex Evaluated Dynamic Geofencing", <i>IEEE Communications Magazine</i> , 60(1), January 2022, pp 94-99, doi: <a href="https://doi.org/10.1109/MCOM.001.21618">https://doi.org/10.1109/MCOM.001.21618</a> .  |
|                       | #HE Yaqing, TSANG Kim Fung, "Universities power energy management: A novel hybrid model based on iCEEMDAN and Bayesian optimized LSTM", <i>Energy Reports</i> , 7, 08 October 2021, pp 6473-6488, doi: <a href="https://doi.org/10.1016/j.egyr.2021.09.115">https://doi.org/10.1016/j.egyr.2021.09.115</a> .   |
| <b>HU Haotao</b>      | #HU Haotao, WU Gengbo, CHAN Ka Fai, CHAN Chi Hou, "V-Band Dual-Polarized Filtering Transmitarray Antenna Enabled by a Planar Filtering Illumination Source", <i>IEEE Transactions on Antennas and Propagation</i> , 24 June 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3184547">https://doi.org/10.1109/TAP.2022.3184547</a> .   |
|                       | #HU Haotao, CHAN Ka Fai, CHAN Chi Hou, "60 GHz Fabry-Pérot Cavity Filtering Antenna Driven by an SIW-Fed Filtering Source", <i>IEEE Transactions on Antennas and Propagation</i> , 70(2), 15 September 2021, pp 823-834, doi: <a href="https://doi.org/10.1109/TAP.2021.3111277">https://doi.org/10.1109/TAP.2021.3111277</a> .  |
| <b>HUANG Haoxin</b>   | YANG Peng, #ZHA Jijia, GAO Guoyun, ZHENG Long, #HUANG Haoxin, #XIA Yunpeng, XU Songcen, #XIONG Tengfei, #ZHANG Zhuomin, YANG Zhengbao, CHEN Ye, KI Dong-Keun, LIOU Jun J., LIAO Wugang, TAN Chaoliang, "Growth of Tellurium Nanobelts on h-BN for p-type Transistors with Ultrahigh Hole Mobility", <i>Nano-Micro Letters</i> , 14(1), 19 April 2022, doi: <a href="https://doi.org/10.1007/s40820-022-00852-2">https://doi.org/10.1007/s40820-022-00852-2</a> . |
|                       | HU Tingting, LIU Qian, ZHOU Zhan, ZHAO Wei, #HUANG Haoxin, MENG Fanqi, LIU Wanqiang, ZHANG Qinghua, GU Lin, LIANG Ruizheng, TAN Chaoliang, "Preparation of Dye Molecule-Intercalated MoO <sub>3</sub> Organic/Inorganic Superlattice Nanoparticles for Fluorescence Imaging-Guided Catalytic Therapy", <i>Small</i> , 18(25), 22 May 2022, doi: <a href="https://doi.org/10.1002/smll.202200595">https://doi.org/10.1002/smll.202200595</a> .                    |
| <b>HUANG Ruixuan</b>  | #HE Qian, #BENNETT Adam Neil, FAN Beifang, HAN Xue, #LIU Jundong, WU Chun Hei, #HUANG Ruixuan, CHAN Juliana Chung Ngor, CHAN Kei Hang Katie, "Assessment of Bidirectional Relationships between Leisure Sedentary Behaviors and Neuropsychiatric Disorders: A Two-Sample Mendelian Randomization Study", <i>Genes</i> , 13(6), 27 May 2022, doi: <a href="https://doi.org/10.3390/genes13060962">https://doi.org/10.3390/genes13060962</a> .                     |
|                       | #WAN Tsz Kin, #HUANG Ruixuan, TULU Thomas Wetere, #LIU Jundong, VODENCAREVIC Asmir, WONG Chi-Wah, CHAN Kei Hang Katie, "Identifying Predictors of COVID-19 Mortality Using Machine Learning", <i>Life</i> , 12(4), 06 April 2022, doi: <a href="https://doi.org/10.3390/life12040547">https://doi.org/10.3390/life12040547</a> .   |
| <b>IRFAN Muhammad</b> | #IRFAN Muhammad, #SANKA Abdurrashid Ibrahim, ULLAH Zahid, CHEUNG Chak Chung Ray, "Reconfigurable content-addressable memory (CAM) on FPGAs: A tutorial and survey", <i>Future Generation Computer Systems</i> , 128, 08 October 2021, pp 451-465, doi: <a href="https://doi.org/10.1016/j.future.2021.09.037">https://doi.org/10.1016/j.future.2021.09.037</a> .   |
|                       | #IRFAN Muhammad, YANTIR Hasan Erdem, ULLAH Zahid, CHEUNG Chak Chung Ray, "Comp-TCAM: An adaptable composite Ternary content-addressable Memory on FPGAs", <i>IEEE Embedded Systems Letters</i> , 14(2), 12 November 2021, pp 63-66, doi: <a href="https://doi.org/10.1109/LES.2021.3124747">https://doi.org/10.1109/LES.2021.3124747</a> .   |

Section A: Publications of PhD Students

|                            |  |
|----------------------------|--|
| <b>Jl Zhuoqiao</b>         | # <u>Jl Zhuoqiao</u> , # <u>SUN Guanghua</u> , <u>WONG Hang</u> , "A Wideband Circularly Polarized Complementary Antenna for Millimeter-wave Applications", <i>IEEE Transactions on Antennas and Propagation</i> , 70(4), 01 February 2022, pp 2392-2400, doi: <a href="https://doi.org/10.1109/TAP.2021.3083782">https://doi.org/10.1109/TAP.2021.3083782</a> .   |
| <b>JIANG Lianzhong</b>     | # <u>JIANG Lianzhong</u> , <u>HUANG Quandong</u> , <u>CHIANG Kin Seng</u> , "Low-power all-optical switch based on a graphene-buried polymer waveguide Mach-Zehnder interferometer", <i>Optics Express</i> , 30(5), 15 February 2022, pp 6786-6797, doi: <a href="https://doi.org/10.1364/OE.452075">https://doi.org/10.1364/OE.452075</a> .   |
|                            | # <u>JIANG Lianzhong</u> , <u>CHIANG Kin Seng</u> , "All-optical mode switching with a graphene-buried polymer waveguide directional coupler", <i>Optics Letters</i> , 47(10), 03 May 2022, pp 2414-2417, doi: <a href="https://doi.org/10.1364/OL.458204">https://doi.org/10.1364/OL.458204</a> .   |
| <b>JIANG Mingjie</b>       | # <u>JIANG Mingjie</u> , # <u>ZHAO Yuan</u> , <u>CHIU Bernard Chi Yuen</u> , "Segmentation of common and internal carotid arteries from 3D ultrasound images based on adaptive triple loss", <i>Medical Physics</i> , 48(9), 26 July 2021, pp 5096-5114, doi: <a href="https://doi.org/10.1002/mp.15127">https://doi.org/10.1002/mp.15127</a> .  |
|                            | <u>LIN Mingquan</u> , # <u>JIANG Mingjie</u> , <u>ZHAO Mingbo</u> , <u>UKWATTA Eranga</u> , <u>WHITE James</u> , <u>CHIU Bernard Chi Yuen</u> , "Cascaded triplanar autoencoder M-Net for fully automatic segmentation of left ventricle myocardial scar from three-dimensional late gadolinium-enhanced MR images", <i>IEEE Journal of Biomedical and Health Informatics</i> , 26(6), 25 January 2022, pp 2582-2593, doi: <a href="https://doi.org/10.1109/JBHI.2022.3146013">https://doi.org/10.1109/JBHI.2022.3146013</a> .   |
|                            | # <u>FAN Xinqi</u> , # <u>JIANG Mingjie</u> , # <u>SHAHID Ali Raza</u> , <u>YAN Hong</u> , "Hierarchical scale convolutional neural network for facial expression recognition", <i>Cognitive Neurodynamics</i> , 05 January 2022, doi: <a href="https://doi.org/10.1007/s11571-021-09761-3">https://doi.org/10.1007/s11571-021-09761-3</a> .   |
| <b>JIANG Wenfan</b>        | <u>ZHANG Yuan</u> , # <u>JIANG Wenfan</u> , <u>CHEN Ming-Yang</u> , "低串扰低弯曲损耗环形芯少模多芯光纤的设计", <i>物理学报</i> , 71(9), 02 February 2022, doi: <a href="https://doi.org/10.7498/aps.71.20211534">https://doi.org/10.7498/aps.71.20211534</a> .  |
| <b>KONG Shangcheng</b>     | # <u>HE Yunhu</u> , <u>CHEN Zhou</u> , # <u>KONG Shangcheng</u> , # <u>MAO Zhengyi</u> , # <u>YANG Chen</u> , # <u>WANG Wanying</u> , # <u>WAN Lei</u> , <u>LIU Guo</u> , # <u>YIN Jianan</u> , <u>CHAN Chi Hou</u> , <u>LU Jian</u> , "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i> , 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a> .  |
|                            | <u>CHEN Zhou</u> , # <u>KONG Shangcheng</u> , # <u>HE Yunhu</u> , <u>YI Shenghui</u> , <u>LIU Guo</u> , # <u>MAO Zhengyi</u> , # <u>HUO Mengke</u> , <u>CHAN Chi Hou</u> , <u>LU Jian</u> , "Soft, Bistable Actuators for Reconfigurable 3D Electronics", <i>ACS Applied Materials &amp; Interfaces</i> , 13(35), 24 August 2021, pp 41968-41977, doi: <a href="https://doi.org/10.1021/acsami.1c08722">https://doi.org/10.1021/acsami.1c08722</a> .   |
| <b>KREMER Hauke Ingolf</b> | <u>TONG Changwu</u> , # <u>KREMER Hauke Ingolf</u> , <u>YANG Nan</u> , <u>LEUNG Kwok Wa</u> , "Compact Wideband Circularly Polarized Dielectric Resonator Antenna with Dielectric Vias", <i>IEEE Antennas and Wireless Propagation Letters</i> , 21(6), 10 March 2022, pp 1100-1104, doi: <a href="https://doi.org/10.1109/LAWP.2022.3158338">https://doi.org/10.1109/LAWP.2022.3158338</a> .  |
| <b>LAI Chun Tak</b>        | # <u>LAI Chun Tak</u> , <u>CHUNG Shu Hung Henry</u> , <u>HE Yuanbin</u> , <u>WU Weimin</u> , <u>BLAABJERG Frede OJ GAE</u> , "Wideband Series Harmonic Voltage Compensator for Enhancing Stability of Microgrids", <i>IEEE Transactions on Power Electronics</i> , 37(8), 15 March 2022, pp 9687-9702, doi: <a href="https://doi.org/10.1109/TPEL.2022.3158937">https://doi.org/10.1109/TPEL.2022.3158937</a> .  |
| <b>LAM Ho Sang</b>         | <u>TSANG Wai Ming Peter</u> , <u>LIU J. P.</u> , # <u>LAM Ho Sang</u> , <u>POON Ting Chung</u> , "Optimal sampled phase-only hologram (OSPOH)", <i>Optics Express</i> , 29(16), 26 July 2021, pp 25488-25498, doi: <a href="https://doi.org/10.1364/OE.430776">https://doi.org/10.1364/OE.430776</a> .   |
|                            | # <u>LAM Ho Sang</u> , <u>TSANG Wai Ming Peter</u> , <u>POON Ting Chung</u> , "Hologram classification of occluded and deformable objects with speckle noise contamination by deep learning", <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 39(3), 15 February 2022, pp 411-417, doi: <a href="https://doi.org/10.1364/JOSAA.444648">https://doi.org/10.1364/JOSAA.444648</a> .   |
| <b>LAN Chuanlin</b>        | # <u>LAN Chuanlin</u> , # <u>FENG Fan</u> , # <u>LIU Qi</u> , <u>SHE Qi</u> , # <u>YANG Qihan</u> , <u>HAO Xinyue</u> , <u>MASHKIN Ivan</u> , <u>KEI Ka Shun</u> , <u>QIANG Dong</u> , <u>LOMONACO Vincenzo</u> , <u>SHI Xuesong</u> , <u>WANG Zhengwei</u> , <u>GUO Yao</u> , <u>ZHANG Yimin</u> , <u>QIAO Fei</u> , <u>CHAN Ho Man</u> , "Towards lifelong object recognition: A dataset and benchmark", <i>Pattern Recognition</i> , 130, 27 May 2022, doi: <a href="https://doi.org/10.1016/j.patcog.2022.108819">https://doi.org/10.1016/j.patcog.2022.108819</a> . |

Section A: Publications of PhD Students

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|             | XOMPERO Alessio, DONAHER Santiago, IASHIN Vladimir, PALERMO Francesca, SOLAK Gokhan, COPPOLA Claudio, ISHIKAWA Reina, NAGAO Yuichi, HACHIUMA Ryo, #LIU Qi, #FENG Fan, #LAN Chuanlin, CHAN Ho Man, CHRISTMANN Guilherme, SONG Jyun-Ting, NEEHARIKA Gonuguntla, REDDY Chinnakotla K. T., JAIN Dinesh, REHMAN Bakhtawar Ur, CAVALLARO Andrea, "The CORSMAL benchmark for the prediction of the properties of containers", <i>IEEE Access</i> , 10, 12 April 2022, pp 41388-41402, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3166906">https://doi.org/10.1109/ACCESS.2022.3166906</a> . |
| LI Wuyang   | #LI Wuyang, #CHEN Zhen, LI Baopu, ZHANG Dingwen, YUAN Yixuan, "HTD: Heterogeneous task decoupling for two-stage object detection", <i>IEEE Transactions on Image Processing</i> , 30, 15 November 2021, pp 9456-9469, doi: <a href="https://doi.org/10.1109/TIP.2021.3126423">https://doi.org/10.1109/TIP.2021.3126423</a> .  |
| LI Xiaopeng | LIU Qi, #LI Xiaopeng, CAO Hui, WU Yuntao, "From Simulated to Visual Data: A Robust Low-Rank Tensor Completion Approach using $\ell_p$ -Regression for Outlier Resistance", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 32(6), 20 September 2021, pp 3462-3474, doi: <a href="https://doi.org/10.1109/TCSVT.2021.3114208">https://doi.org/10.1109/TCSVT.2021.3114208</a> .   |
|             | #LI Xiaopeng, SHI Zhanglei, LEUNG Chi Sing Andrew, SO Hing Cheung, "Sparse index tracking with K-sparsity or $\epsilon$ -deviation constraint via $\ell_0$ -norm minimization", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 16 May 2022, doi: <a href="https://doi.org/10.1109/TNNLS.2022.3171819">https://doi.org/10.1109/TNNLS.2022.3171819</a> .  |
|             | #LI Xiaopeng, #WANG Maolin, SO Hing Cheung, "An Interpretable Bi-Branch Neural Network for Matrix Completion", <i>Signal Processing</i> , 200, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.sigpro.2022.108640">https://doi.org/10.1016/j.sigpro.2022.108640</a> .   |
|             | LIU Qi, #LI Xiaopeng, "Efficient Low-Rank Matrix Factorization based on $\ell_{1,\epsilon}$ -norm for Online Background Subtraction", <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 19 November 2021, doi: <a href="https://doi.org/10.1109/TCSVT.2021.3129503">https://doi.org/10.1109/TCSVT.2021.3129503</a> .  |
| LI Yuanlong | LUK Kwai Man, #LI Yuanlong, "半球面法布里 - 珀罗天线的发展", <i>无线电工程</i> , 52(2), 05 February 2022, pp 176-180, doi: <a href="https://doi.org/10.3969/j.issn.1003-3106.2022.02.001">https://doi.org/10.3969/j.issn.1003-3106.2022.02.001</a> .  |
| LI Yue      | LI C., #LI Yue, PUN Yue Bun Edwin, LIN Hai, "A dual-ratiometric optical thermometry based on $\text{Sr}_2\text{LaF}_7:\text{Er}^{3+}$ crystal-implanted pliable fibers", <i>Dalton Transactions</i> , 51(20), 27 April 2022, pp 7997-8008, doi: <a href="https://doi.org/10.1039/d2dt00080f">https://doi.org/10.1039/d2dt00080f</a> .   |
|             | GAO Z. L., #LI Yue, PUN Yue Bun Edwin, LIN Hai, "Dual-ratiometric thermometry of Erbium(III) in electrospun fibers inlaid with $\text{BaMgF}_4$ microcrystals", <i>Dyes and Pigments</i> , 194, 13 July 2021, doi: <a href="https://doi.org/10.1016/j.dyepig.2021.109645">https://doi.org/10.1016/j.dyepig.2021.109645</a> .  |
| LIAO Herui  | #LIAO Herui, #CAI Dehan, SUN Yanni, "VirStrain: a strain identification tool for RNA viruses", <i>Genome Biology</i> , 23(1), 31 January 2022, doi: <a href="https://doi.org/10.1186/s13059-022-02609-x">https://doi.org/10.1186/s13059-022-02609-x</a> .   |
| LIU Jie     | #CHEN Zhen, #LIU Jie, #ZHU Meilu, WOO Peter Y.M., YUAN Yixuan, "Instance importance-Aware graph convolutional network for 3D medical diagnosis", <i>Medical Image Analysis</i> , 78, 18 March 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102421">https://doi.org/10.1016/j.media.2022.102421</a> .  |
|             | #LIU Jie, #GUO Xiaoqing, YUAN Yixuan, "Graph-based Surgical Instrument Adaptive Segmentation via Domain-Common Knowledge", <i>IEEE Transactions on Medical Imaging</i> , 41(3), 21 October 2021, pp 715-726, doi: <a href="https://doi.org/10.1109/TMI.2021.3121138">https://doi.org/10.1109/TMI.2021.3121138</a> .   |
| LIU Qi      | #LAN Chuanlin, #FENG Fan, #LIU Qi, SHE Qi, #YANG Qihan, HAO Xinyue, MASHKIN Ivan, KEI Ka Shun, QIANG Dong, LOMONACO Vincenzo, SHI Xuesong, WANG Zhengwei, GUO Yao, ZHANG Yimin, QIAO Fei, CHAN Ho Man, "Towards lifelong object recognition: A dataset and benchmark", <i>Pattern Recognition</i> , 130, 27 May 2022, doi: <a href="https://doi.org/10.1016/j.patcog.2022.108819">https://doi.org/10.1016/j.patcog.2022.108819</a> .  |
|             | XOMPERO Alessio, DONAHER Santiago, IASHIN Vladimir, PALERMO Francesca, SOLAK Gokhan, COPPOLA Claudio, ISHIKAWA Reina, NAGAO Yuichi, HACHIUMA Ryo, #LIU Qi, #FENG Fan, #LAN Chuanlin, CHAN Ho Man, CHRISTMANN Guilherme, SONG Jyun-Ting, NEEHARIKA Gonuguntla, REDDY Chinnakotla K. T., JAIN Dinesh, REHMAN Bakhtawar Ur, CAVALLARO Andrea, "The CORSMAL benchmark for the prediction of the properties of containers", <i>IEEE Access</i> , 10, 12 April 2022, pp 41388-41402, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3166906">https://doi.org/10.1109/ACCESS.2022.3166906</a> . |

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|---------------------|---|
| <b>LIU Wenwen</b>   | # <a href="#">LIU Wenwen</a> , <a href="#">YUEN Shiu Yin Kelvin</a> , <a href="#">SUNG Chi Wan</a> , "A generic method to compose an algorithm portfolio with a problem set of unknown distribution", <i>Memetic Computing</i> , 03 May 2022, doi: <a href="https://doi.org/10.1007/s12293-022-00367-8">https://doi.org/10.1007/s12293-022-00367-8</a> .  |
| <b>LIU Xiaoyuan</b> | <a href="#">CHEN Mu Ku</a> , # <a href="#">LIU Xiaoyuan</a> , <a href="#">SUN Yanni</a> , <a href="#">TSAI Din-ping</a> , "Artificial Intelligence in Meta-optics", <i>Chemical Reviews</i> , 24 June 2022, doi: <a href="https://doi.org/10.1021/acs.chemrev.2c00012">https://doi.org/10.1021/acs.chemrev.2c00012</a> .<br><a href="#">FAN Yulong</a> , <a href="#">CHEN Mu Ku</a> , <a href="#">QIU Meng</a> , <a href="#">LIN Ren Jie</a> , # <a href="#">XU Yunkun</a> , <a href="#">WEN Jing</a> , <a href="#">TANG Tianchen</a> , # <a href="#">LIU Xiaoyuan</a> , <a href="#">JIN Wei</a> , <a href="#">TSAI Din-ping</a> , <a href="#">LEI Dangyuan</a> , "Experimental Demonstration of Genetic Algorithm Based Metalens Design for Generating Side-Lobe-Suppressed, Large Depth-of-Focus Light Sheet", <i>Laser and Photonics Reviews</i> , 16(2), 13 December 2021, doi: <a href="https://doi.org/10.1002/lpor.202100425">https://doi.org/10.1002/lpor.202100425</a> .<br><a href="#">CHEN Mu Ku</a> , <a href="#">CHU Cheng Hung</a> , # <a href="#">LIU Xiaoyuan</a> , # <a href="#">ZHANG Jingcheng</a> , <a href="#">SUN Linshan</a> , <a href="#">YAO Jin</a> , <a href="#">FAN Yubin</a> , <a href="#">LIANG Yao</a> , <a href="#">YAMAGUCHI Takeshi</a> , <a href="#">TANAKA Takuo</a> , <a href="#">TSAI Din-ping</a> , "Meta-Lens in the Sky", <i>IEEE Access</i> , 10, 29 April 2022, pp 46552-46557, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3171351">https://doi.org/10.1109/ACCESS.2022.3171351</a> .   |
| <b>LIU Xinyu</b>    | # <a href="#">LIU Xinyu</a> , <a href="#">YUAN Yixuan</a> , "A Source-free Domain Adaptive Polyp Detection Framework with Style Diversification Flow", <i>IEEE Transactions on Medical Imaging</i> , 41(7), 09 February 2022, pp 1897-1908, doi: <a href="https://doi.org/10.1109/TMI.2022.3150435">https://doi.org/10.1109/TMI.2022.3150435</a> .  |
| <b>LIU Xiyao</b>    | # <a href="#">LIU Xiyao</a> , <a href="#">LEUNG Kwok Wa</a> , <a href="#">ZHANG Tianyu</a> , <a href="#">YANG Nan</a> , <a href="#">GU Pengfei</a> , <a href="#">CHEN Rushan</a> , "An Electrically Controlled Pattern- and Polarization-Reconfigurable Cylindrical Dielectric Resonator Antenna", <i>IEEE Antennas and Wireless Propagation Letters</i> , 20(12), 02 September 2021, pp 2309-2313, doi: <a href="https://doi.org/10.1109/LAWP.2021.3109616">https://doi.org/10.1109/LAWP.2021.3109616</a> .  |
| <b>LIU Yucheng</b>  | # <a href="#">WANG Hao</a> , <a href="#">TSANG Kim Fung</a> , # <a href="#">LIU Yucheng</a> , # <a href="#">WEI Yang</a> , # <a href="#">HE Yaqing</a> , <a href="#">KOO Cheon Hoi</a> , <a href="#">WAN Wai Hin</a> , "A New COVID-19 Quarantine Directive: QDex Evaluated Dynamic Geofencing", <i>IEEE Communications Magazine</i> , 60(1), January 2022, pp 94-99, doi: <a href="https://doi.org/10.1109/MCOM.001.21618">https://doi.org/10.1109/MCOM.001.21618</a> .<br># <a href="#">LIU Yucheng</a> , <a href="#">TSANG Kim Fung</a> , <a href="#">ZHU Hongxu</a> , <a href="#">CHI Haoran</a> , # <a href="#">WEI Yang</a> , # <a href="#">WANG Hao</a> , <a href="#">WU Chung Kit</a> , "Efficient Load Balancing for Heterogeneous Radio-Replication-Combined LoRaWAN", <i>IEEE Transactions on Industrial Informatics</i> , 25 January 2022, doi: <a href="https://doi.org/10.1109/TII.2022.3145846">https://doi.org/10.1109/TII.2022.3145846</a> .<br># <a href="#">WANG Hao</a> , <a href="#">TSANG Kim Fung</a> , # <a href="#">WEI Yang</a> , # <a href="#">LIU Yucheng</a> , <a href="#">KOO Cheon Hoi</a> , <a href="#">WAN Wai Hin</a> , "A Unified Quantitative Index to Assess Non-ionizing Radiation Safety", <i>IEEE Consumer Electronics Magazine</i> , 27 May 2022, doi: <a href="https://doi.org/10.1109/MCE.2022.3178200">https://doi.org/10.1109/MCE.2022.3178200</a> .<br># <a href="#">WEI Yang</a> , <a href="#">TSANG Kim Fung</a> , <a href="#">WU Chung Kit</a> , # <a href="#">WANG Hao</a> , # <a href="#">LIU Yucheng</a> , "A Multi-Leak Identification Scheme Using Multi-Classification for Water Distribution Infrastructure", <i>Applied Sciences (Switzerland)</i> , 12(4), 18 February 2022, doi: <a href="https://doi.org/10.3390/app12042128">https://doi.org/10.3390/app12042128</a> . |
| <b>LIU Zhaofeng</b> | # <a href="#">WANG Zhiyong</a> , <a href="#">SO Hing Cheung</a> , # <a href="#">LIU Zhaofeng</a> , "Fast and robust rank-one matrix completion via maximum correntropy criterion and half-quadratic optimization", <i>Signal Processing</i> , 198, 13 April 2022, doi: <a href="https://doi.org/10.1016/j.sigpro.2022.108580">https://doi.org/10.1016/j.sigpro.2022.108580</a> .  |
| <b>LU Wenhao</b>    | # <a href="#">LU Wenhao</a> , <a href="#">LEUNG Chi Sing Andrew</a> , <a href="#">SUM John</a> , "Analysis on Noisy Boltzmann Machines and Noisy Restricted Boltzmann Machines", <i>IEEE Access</i> , 9, 03 August 2021, pp 112955-112965, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3102275">https://doi.org/10.1109/ACCESS.2021.3102275</a> .   |
| <b>LUO Moxuan</b>   | <a href="#">TAN Huiying</a> , <a href="#">LI Xiaotao</a> , <a href="#">HUANG Kang</a> , # <a href="#">LUO Moxuan</a> , <a href="#">WANG Liping</a> , "Morphological and distributional properties of SMI-32 immunoreactive ganglion cells in the rat retina", <i>Journal of Comparative Neurology</i> , 530(8), 21 November 2021, pp 1276-1287, doi: <a href="https://doi.org/10.1002/cne.25275">https://doi.org/10.1002/cne.25275</a> .  |
| <b>MA Tianlu</b>    | # <a href="#">MA Tianlu</a> , <a href="#">WANG Yue</a> , <a href="#">HU Xiufang</a> , <a href="#">ZHAO Delin</a> , <a href="#">JIANG Yongbin</a> , <a href="#">JIANG Chaoqiang</a> , "Periodic Energy Control for Wireless Power Transfer System", <i>IEEE Transactions on Power Electronics</i> , 37(4), 22 November 2021, pp 3775-3780, doi: <a href="https://doi.org/10.1109/TPEL.2021.3129501">https://doi.org/10.1109/TPEL.2021.3129501</a> .  |
| <b>MALIK Anju</b>   | # <a href="#">MALIK Anju</a> , # <a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a> , <a href="#">CHEN Ke</a> , <a href="#">CHAN L H Leanne</a> , "Neuronal Oscillatory Signatures in the Developing Mouse Visual Cortex After Short-Term Monocular Deprivation", <i>Cerebral Cortex</i> , 32(12), 19 October 2021, pp 2657-2667, doi: <a href="https://doi.org/10.1093/cercor/bhab372">https://doi.org/10.1093/cercor/bhab372</a> .  |

Section A: Publications of PhD Students

|                                  |  |
|----------------------------------|--|
| <b>MOSTAFA Salwa Said Hamed</b>  | # <a href="#">MOSTAFA Salwa Said Hamed</a> , <a href="#">SUNG Chi Wan</a> , <a href="#">#GUO Yongna</a> , "Joint Computation and Communication Resource Allocation with NOMA and OMA Offloading for Multi-server Systems in F-RAN", <i>IEEE Access</i> , 10, 17 February 2022, pp 24456-24466, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3152531">https://doi.org/10.1109/ACCESS.2022.3152531</a> .  |
| <b>OU Weifeng</b>                | # <a href="#">OU Weifeng</a> , <a href="#">PO Lai Man</a> , <a href="#">ZHOU Chang</a> , <a href="#">#XIAN Pengfei</a> , <a href="#">#XIONG Jingjing</a> , "GAN-based Inter-Class Sample Generation for Contrastive Learning of Vein Image Representations", <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i> , 4(2), 21 February 2022, pp 249-262, doi: <a href="https://doi.org/10.1109/TBIOM.2022.3152345">https://doi.org/10.1109/TBIOM.2022.3152345</a> .   |
|                                  | # <a href="#">ZHAO Yuzhi</a> , <a href="#">PO Lai Man</a> , <a href="#">WANG Xuehui</a> , <a href="#">YAN Qiong</a> , <a href="#">SHEN Wei</a> , <a href="#">#ZHANG Yujia</a> , <a href="#">LIU Wei</a> , <a href="#">WONG Chun Kit</a> , <a href="#">PANG Chiu-sing</a> , <a href="#">#OU Weifeng</a> , <a href="#">#YU Wing Yin</a> , <a href="#">LIU Buhua</a> , "ChildPredictor: A Child Face Prediction Framework with Disentangled Learning", <i>IEEE Transactions on Multimedia</i> , 05 April 2022, doi: <a href="https://doi.org/10.1109/TMM.2022.3164785">https://doi.org/10.1109/TMM.2022.3164785</a> . |
|                                  | # <a href="#">XIAN Pengfei</a> , <a href="#">PO Lai Man</a> , <a href="#">#XIONG Jingjing</a> , <a href="#">ZHOU Chang</a> , <a href="#">#ZHAO Yuzhi</a> , <a href="#">#YU Wing Yin</a> , <a href="#">#OU Weifeng</a> , <a href="#">#ZHANG Yujia</a> , <a href="#">ZHANG Xiaori</a> , "Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation", <i>Expert Systems with Applications</i> , 193, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.116438">https://doi.org/10.1016/j.eswa.2021.116438</a> .   |
| <b>PAN Yufei</b>                 | # <a href="#">PAN Yufei</a> , <a href="#">CHAN Wing Shing</a> , "Slotline-based frequency-reconfigurable quadrature coupler with wide tunable range and simple tuning mechanism", <i>Microwave and Optical Technology Letters</i> , 64(2), 29 November 2021, pp 283-287, doi: <a href="https://doi.org/10.1002/mop.33103">https://doi.org/10.1002/mop.33103</a> .  |
|                                  | # <a href="#">YANG Ye</a> , <a href="#">#PAN Yufei</a> , <a href="#">ZHENG Shaoyong</a> , <a href="#">HONG Wonbin</a> , <a href="#">CHAN Wing Shing</a> , "Analytical Design Method and Implementation of Broadband 4 x 4 Nolen Matrix", <i>IEEE Transactions on Microwave Theory and Techniques</i> , 70(1), 01 November 2021, pp 343-355, doi: <a href="https://doi.org/10.1109/TMTT.2021.3121393">https://doi.org/10.1109/TMTT.2021.3121393</a> .   |
| <b>QI Chu</b>                    | # <a href="#">HE Xiaoluo</a> , <a href="#">#QI Chu</a> , <a href="#">WONG Man Hon Alex</a> , "A compact transparent polarization-insensitive metasurface with broadband monostatic and bistatic radar cross-section reduction of millimeter-waves", <i>Journal of Physics D: Applied Physics</i> , 55(35), 20 June 2022, doi: <a href="https://doi.org/10.1088/1361-6463/ac76f3">https://doi.org/10.1088/1361-6463/ac76f3</a> .  |
|                                  | # <a href="#">QI Chu</a> , <a href="#">WONG Man Hon Alex</a> , "Broadband efficient anomalous reflection using an aggressively discretized metasurface", <i>Optics Express</i> , 30(9), 22 April 2022, pp 15735-15746, doi: <a href="https://doi.org/10.1364/OE.455617">https://doi.org/10.1364/OE.455617</a> .  |
|                                  | # <a href="#">QI Chu</a> , <a href="#">WONG Man Hon Alex</a> , "Discrete Huygens' Metasurface: Realizing Anomalous Refraction and Diffraction Mode Circulation with a Robust, Broadband and Simple Design", <i>IEEE Transactions on Antennas and Propagation</i> , 11 April 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3164931">https://doi.org/10.1109/TAP.2022.3164931</a> .   |
| <b>QIAN Jingui</b>               | # <a href="#">QIAN Jingui</a> , <a href="#">#BEGUM Habiba</a> , <a href="#">LEE En-yuan Joshua</a> , "Acoustofluidic localization of sparse particles on a piezoelectric resonant sensor for nanogram-scale mass measurements", <i>Microsystems &amp; Nanoengineering</i> , 7, 13 August 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00288-5">https://doi.org/10.1038/s41378-021-00288-5</a> .  |
|                                  | # <a href="#">BEGUM Habiba</a> , <a href="#">#QIAN Jingui</a> , <a href="#">LEE En-yuan Joshua</a> , "Effect of crystal orientation on liquid phase performance of piezoelectric-on-silicon elliptical plate resonators", <i>Sensors and Actuators A: Physical</i> , 340, 07 April 2022, doi: <a href="https://doi.org/10.1016/j.sna.2022.113548">https://doi.org/10.1016/j.sna.2022.113548</a> .  |
|                                  | # <a href="#">BEGUM Habiba</a> , <a href="#">#QIAN Jingui</a> , <a href="#">LEE En-yuan Joshua</a> , "Fully Differential Higher Order Transverse Mode Piezoelectric Membrane Resonators for Enhanced Liquid-Phase Quality Factors", <i>Journal of Micromechanics and Microengineering</i> , 31(10), 03 September 2021, doi: <a href="https://doi.org/10.1088/1361-6439/ac1eee">https://doi.org/10.1088/1361-6439/ac1eee</a> .  |
|                                  | # <a href="#">QIAN Jingui</a> , <a href="#">#BEGUM Habiba</a> , <a href="#">LEE En-yuan Joshua</a> , "Acoustic Centrifugation Facilitating Particle Sensing in Liquid on a Piezoelectric Resonator", <i>IEEE Electron Device Letters</i> , 43(5), 25 March 2022, pp 801-804, doi: <a href="https://doi.org/10.1109/led.2022.3162327">https://doi.org/10.1109/led.2022.3162327</a> .  |
| <b>RUAN Jingya</b>               | # <a href="#">RUAN Jingya</a> , <a href="#">CHAN Sze Chun</a> , "Chaotic dimension enhancement by optical injection into a semiconductor laser under feedback", <i>Optics Letters</i> , 47(4), 07 February 2022, pp 858-861, doi: <a href="https://doi.org/10.1364/OL.439539">https://doi.org/10.1364/OL.439539</a> .  |
| <b>SANKA Abdurrashid Ibrahim</b> | # <a href="#">IRFAN Muhammad</a> , <a href="#">#SANKA Abdurrashid Ibrahim</a> , <a href="#">ULLAH Zahid</a> , <a href="#">CHEUNG Chak Chung Ray</a> , "Reconfigurable content-addressable memory (CAM) on FPGAs: A tutorial and  |

Section A: Publications of PhD Students

|                 |  |
|-----------------|--|
|                 | survey", <i>Future Generation Computer Systems</i> , 128, 08 October 2021, pp 451-465, doi: <a href="https://doi.org/10.1016/j.future.2021.09.037">https://doi.org/10.1016/j.future.2021.09.037</a> .  |
|                 | #SANKA Abdurrashid Ibrahim, CHEUNG Chak Chung Ray, "A systematic review of blockchain scalability: Issues, solutions, analysis and future research", <i>Journal of Network and Computer Applications</i> , 195, 02 October 2021, doi: <a href="https://doi.org/10.1016/j.jnca.2021.103232">https://doi.org/10.1016/j.jnca.2021.103232</a> .  |
| SHAHID Ali Raza | #KHAN Shahid Ali, EZE Chika, #KHAN Shahid Ali, #SHAHID Ali Raza, PATIL Mahesh Suresh, AHMAD Shakeel, #HUSSAIN Iftikhar, ZHAO Jiyun, "Design of a new optimized U-shaped lightweight liquid-cooled battery thermal management system for electric vehicles: A machine learning approach", <i>International Communications in Heat and Mass Transfer</i> , 136, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.106209">https://doi.org/10.1016/j.icheatmasstransfer.2022.106209</a> . |
|                 | NAWAZ Mehmood, QURESHI Rizwan, TEEVNO Mansoor Ali, #SHAHID Ali Raza, "Object detection and segmentation by composition of fast fuzzy C-mean clustering based maps", <i>Journal of Ambient Intelligence and Humanized Computing</i> , 24 January 2022, doi: <a href="https://doi.org/10.1007/s12652-021-03570-6">https://doi.org/10.1007/s12652-021-03570-6</a> .   |
|                 | #FAN Xinqi, #JIANG Mingjie, #SHAHID Ali Raza, YAN Hong, "Hierarchical scale convolutional neural network for facial expression recognition", <i>Cognitive Neurodynamics</i> , 05 January 2022, doi: <a href="https://doi.org/10.1007/s11571-021-09761-3">https://doi.org/10.1007/s11571-021-09761-3</a> .  |
| SHANG Jiayu     | #SHANG Jiayu, SUN Yanni, "CHERRY: a Computational method for accurate prediction of virus-prokaryotic interactions using a graph encoder-decoder model", <i>Briefings in Bioinformatics</i> , 21 May 2022, doi: <a href="https://doi.org/10.1093/bib/bbac182">https://doi.org/10.1093/bib/bbac182</a> .  |
|                 | #SHANG Jiayu, SUN Yanni, "Predicting the hosts of prokaryotic viruses using GCN-based semi-supervised learning", <i>BMC Biology</i> , 19(1), 24 November 2021, doi: <a href="https://doi.org/10.1186/s12915-021-01180-4">https://doi.org/10.1186/s12915-021-01180-4</a> .  |
|                 | #SHANG Jiayu, #TANG Xubo, GUO Ruocheng, SUN Yanni, "Accurate identification of bacteriophages from metagenomic data using Transformer", <i>Briefings in Bioinformatics</i> , 23(4), 30 June 2022, doi: <a href="https://doi.org/10.1093/bib/bbac258">https://doi.org/10.1093/bib/bbac258</a> .   |
|                 | #TANG Xubo, #SHANG Jiayu, SUN Yanni, "RdRp-based sensitive taxonomic classification of RNA viruses for metagenomic data", <i>Briefings in Bioinformatics</i> , 23(2), 07 February 2022, doi: <a href="https://doi.org/10.1093/bib/bbac011">https://doi.org/10.1093/bib/bbac011</a> .   |
| SHEN Ruihua     | #SHEN Ruihua, CHUNG Shu Hung Henry, "On the Use of Nonlinear Inductor to Enhance the Stability of DC Distribution Networks", <i>IEEE Transactions on Power Electronics</i> , 37(7), 18 January 2022, pp 8582-8595, doi: <a href="https://doi.org/10.1109/TPEL.2022.3143830">https://doi.org/10.1109/TPEL.2022.3143830</a> .  |
| SHI Zhanglei    | LEUNG Chi Sing Andrew, WANG Hao, #SHI Zhanglei, "Constrained Center Loss for Convolutional Neural Networks", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 24 August 2021, doi: <a href="https://doi.org/10.1109/TNNLS.2021.3104392">https://doi.org/10.1109/TNNLS.2021.3104392</a> .   |
| SUN Guanghua    | #JI Zhuoqiao, #SUN Guanghua, WONG Hang, "A Wideband Circularly Polarized Complementary Antenna for Millimeter-wave Applications", <i>IEEE Transactions on Antennas and Propagation</i> , 70(4), 01 February 2022, pp 2392-2400, doi: <a href="https://doi.org/10.1109/TAP.2021.3083782">https://doi.org/10.1109/TAP.2021.3083782</a> .   |
| TANG Xubo       | #SHANG Jiayu, #TANG Xubo, GUO Ruocheng, SUN Yanni, "Accurate identification of bacteriophages from metagenomic data using Transformer", <i>Briefings in Bioinformatics</i> , 23(4), 30 June 2022, doi: <a href="https://doi.org/10.1093/bib/bbac258">https://doi.org/10.1093/bib/bbac258</a> .   |
|                 | #TANG Xubo, #SHANG Jiayu, SUN Yanni, "RdRp-based sensitive taxonomic classification of RNA viruses for metagenomic data", <i>Briefings in Bioinformatics</i> , 23(2), 07 February 2022, doi: <a href="https://doi.org/10.1093/bib/bbac011">https://doi.org/10.1093/bib/bbac011</a> .   |
| WAN Tsz Kin     | #WAN Tsz Kin, #HUANG Ruixuan, TULU Thomas Wetere, #LIU Jundong, VODENCAREVIC Asmir, WONG Chi-Wah, CHAN Kei Hang Katie, "Identifying Predictors of COVID-19 Mortality Using Machine Learning", <i>Life</i> , 12(4), 06 April 2022, doi: <a href="https://doi.org/10.3390/life12040547">https://doi.org/10.3390/life12040547</a> .   |
| WANG Chao       | WANG Sizhong, CHAN Peter P. K., LAM Ben M F, CHAN Zoe Y. S., ZHANG Janet H. W., #WANG Chao, LAM Wing Kai, HO Kevin Ki Wai, CHAN Ho Man, CHEUNG Roy T. H., "Sensor-based gait retraining lowers knee adduction moment and improves symptoms in patients with knee osteoarthritis: A randomized controlled trial", <i>Sensors</i> , 21(16), 19 August 2021, doi: <a href="https://doi.org/10.3390/s21165596">https://doi.org/10.3390/s21165596</a> .   |



Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
| <b>WANG Hao</b>       | #WANG Hao, <u>TSANG Kim Fung</u> , #LIU Yucheng, #WEI Yang, #HE Yaqing, KOO Cheon Hoi, WAN Wai Hin, "A New COVID-19 Quarantine Directive: QDex Evaluated Dynamic Geofencing", <i>IEEE Communications Magazine</i> , 60(1), January 2022, pp 94-99, doi: <a href="https://doi.org/10.1109/MCOM.001.21618">https://doi.org/10.1109/MCOM.001.21618</a> .  |
|                       | #LIU Yucheng, <u>TSANG Kim Fung</u> , <u>ZHU Hongxu</u> , CHI Haoran, #WEI Yang, #WANG Hao, <u>WU Chung Kit</u> , "Efficient Load Balancing for Heterogeneous Radio-Replication-Combined LoRaWAN", <i>IEEE Transactions on Industrial Informatics</i> , 25 January 2022, doi: <a href="https://doi.org/10.1109/TII.2022.3145846">https://doi.org/10.1109/TII.2022.3145846</a> .  |
|                       | #WANG Hao, <u>TSANG Kim Fung</u> , #WEI Yang, #LIU Yucheng, KOO Cheon Hoi, WAN Wai Hin, "A Unified Quantitative Index to Assess Non-ionizing Radiation Safety", <i>IEEE Consumer Electronics Magazine</i> , 27 May 2022, doi: <a href="https://doi.org/10.1109/MCE.2022.3178200">https://doi.org/10.1109/MCE.2022.3178200</a> .  |
|                       | #WEI Yang, <u>TSANG Kim Fung</u> , <u>WU Chung Kit</u> , #WANG Hao, #LIU Yucheng, "A Multi-Leak Identification Scheme Using Multi-Classification for Water Distribution Infrastructure", <i>Applied Sciences (Switzerland)</i> , 12(4), 18 February 2022, doi: <a href="https://doi.org/10.3390/app12042128">https://doi.org/10.3390/app12042128</a> .   |
| <b>WANG Manting</b>   | #WANG Manting, LIAO Dashuang, <u>DAI Junyan</u> , <u>CHAN Chi Hou</u> , "Dual-Polarized Reconfigurable Metasurface for Multifunctional Control of Electromagnetic Waves", <i>IEEE Transactions on Antennas and Propagation</i> , 70(6), 11 January 2022, pp 4539-4548, doi: <a href="https://doi.org/10.1109/TAP.2022.3140506">https://doi.org/10.1109/TAP.2022.3140506</a> .  |
|                       | #WANG Manting, <u>CHAN Chi Hou</u> , "Dual-Polarized, Low-Profile Dipole-Patch Array for Wide Bandwidth Applications", <i>IEEE Transactions on Antennas and Propagation</i> , 11 April 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3164416">https://doi.org/10.1109/TAP.2022.3164416</a> .  |
|                       | <u>DAI Junyan</u> , TANG Wankai, #WANG Manting, CHEN Ming Zheng, CHENG Qiang, JIN Shi, CUI Tie Jun, <u>CHAN Chi Hou</u> , "Simultaneous In-situ Direction Finding and Field Manipulation Based on Space-Time-Coding Digital Metasurface", <i>IEEE Transactions on Antennas and Propagation</i> , 28 January 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3145445">https://doi.org/10.1109/TAP.2022.3145445</a> . |
|                       | LIAO Dashuang, #WANG Manting, <u>CHAN Ka Fai</u> , <u>CHAN Chi Hou</u> , WANG Hao Gang, "A Deep-Learning Enabled Discrete Dielectric Lens Antenna for Terahertz Reconfigurable Holographic Imaging", <i>IEEE Antennas and Wireless Propagation Letters</i> , 21(4), 09 February 2022, pp 823-827, doi: <a href="https://doi.org/10.1109/LAWP.2022.3149861">https://doi.org/10.1109/LAWP.2022.3149861</a> .               |
| <b>WANG Muting</b>    | #WANG Muting, PANG Stella W., "Controlled Scaffold Platform Designs on Nasopharyngeal Carcinoma Cell Separation", <i>IEEE Access</i> , 9, 11 August 2021, pp 113813-113822, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3104011">https://doi.org/10.1109/ACCESS.2021.3104011</a> .   |
| <b>WANG Tianjiao</b>  | #WANG Tianjiao, WANG Zengfu, MORAN Bill, <u>ZUKERMAN Moshe</u> , "Submarine Cable Network Design for Regional Connectivity", <i>IEEE/ACM Transactions on Networking</i> , 30 May 2022, doi: <a href="https://doi.org/10.1109/TNET.2022.3171832">https://doi.org/10.1109/TNET.2022.3171832</a> .  |
|                       | #WANG Tianjiao, WANG Zengfu, MORAN Bill, #WANG Xinyu, #GUO Chao, <u>ZUKERMAN Moshe</u> , "Latency-Aware Optimization of Submarine Communication Cable Systems with Trunk-and-Branch Topologies", <i>Journal of Lightwave Technology</i> , 27 June 2022, doi: <a href="https://doi.org/10.1109/JLT.2022.3186545">https://doi.org/10.1109/JLT.2022.3186545</a> .   |
| <b>WANG Xiaosheng</b> | #WANG Xiaosheng, JIANG Chaoqiang, ZHUANG Feifei, LEE Christopher H. T., CHAN C. C., "A Harmonic Injection Method Equivalent to the Resonant Controller for Speed Ripple Reduction of PMSM", <i>IEEE Transactions on Industrial Electronics</i> , 69(10), 11 November 2021, pp 9793-9803, doi: <a href="https://doi.org/10.1109/TIE.2021.3125651">https://doi.org/10.1109/TIE.2021.3125651</a> .                          |
| <b>WANG Xinyu</b>     | #WANG Tianjiao, WANG Zengfu, MORAN Bill, #WANG Xinyu, #GUO Chao, <u>ZUKERMAN Moshe</u> , "Latency-Aware Optimization of Submarine Communication Cable Systems with Trunk-and-Branch Topologies", <i>Journal of Lightwave Technology</i> , 27 June 2022, doi: <a href="https://doi.org/10.1109/JLT.2022.3186545">https://doi.org/10.1109/JLT.2022.3186545</a> .   |
|                       | #GUO Chao, #WANG Xinyu, SHEN Gangxiang, BOSE Sanjay Kumar, #XU Jiahe, <u>ZUKERMAN Moshe</u> , "Exploring the Benefits of Resource Disaggregation for Service Reliability in Data Centers", <i>IEEE Transactions on Cloud Computing</i> , 16 February 2022, doi: <a href="https://doi.org/10.1109/TCC.2022.3151923">https://doi.org/10.1109/TCC.2022.3151923</a> .  |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | #WANG Xinyu, WANG Zengfu, TAHCHI Elias, ZUKERMAN Moshe, "Submarine Cable Path Planning Based on Weight Selection of Design Considerations", <i>IEEE Access</i> , 9, 30 August 2021, pp 123847-123860, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3108770">https://doi.org/10.1109/ACCESS.2021.3108770</a> .  |
| <b>WANG Zhiyong</b>  | ZHU Yu, #WANG Zhiyong, TIAN Kai, JING Tao, GUO Xiaopeng, LIU Zhigang, "Phase-generated carrier combined with the Hilbert transform for phase demodulation in frequency-scanning interferometry", <i>Optics and Lasers in Engineering</i> , 153, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.optlaseng.2022.106988">https://doi.org/10.1016/j.optlaseng.2022.106988</a> .  |
|                      | #WANG Zhiyong, SO Hing Cheung, #LIU Zhaofeng, "Fast and robust rank-one matrix completion via maximum correntropy criterion and half-quadratic optimization", <i>Signal Processing</i> , 198, 13 April 2022, doi: <a href="https://doi.org/10.1016/j.sigpro.2022.108580">https://doi.org/10.1016/j.sigpro.2022.108580</a> .   |
| <b>WEI Tianjun</b>   | #WEI Tianjun, CHOW Wai Shing Tommy, MA Jianghong, "Modeling Self-Representation Label Correlations for Textual Aspects and Emojis Recommendation", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 12 May 2022, doi: <a href="https://doi.org/10.1109/TNNLS.2022.3171335">https://doi.org/10.1109/TNNLS.2022.3171335</a> .   |
| <b>WEI Yang</b>      | #WANG Hao, TSANG Kim Fung, #LIU Yucheng, #WEI Yang, #HE Yaqing, KOO Cheon Hoi, WAN Wai Hin, "A New COVID-19 Quarantine Directive: QDex Evaluated Dynamic Geofencing", <i>IEEE Communications Magazine</i> , 60(1), January 2022, pp 94-99, doi: <a href="https://doi.org/10.1109/MCOM.001.21618">https://doi.org/10.1109/MCOM.001.21618</a> .   |
|                      | #LIU Yucheng, TSANG Kim Fung, ZHU Hongxu, CHI Haoran, #WEI Yang, #WANG Hao, WU Chung Kit, "Efficient Load Balancing for Heterogeneous Radio-Replication-Combined LoRaWAN", <i>IEEE Transactions on Industrial Informatics</i> , 25 January 2022, doi: <a href="https://doi.org/10.1109/TII.2022.3145846">https://doi.org/10.1109/TII.2022.3145846</a> .   |
|                      | #WANG Hao, TSANG Kim Fung, #WEI Yang, #LIU Yucheng, KOO Cheon Hoi, WAN Wai Hin, "A Unified Quantitative Index to Assess Non-ionizing Radiation Safety", <i>IEEE Consumer Electronics Magazine</i> , 27 May 2022, doi: <a href="https://doi.org/10.1109/MCE.2022.3178200">https://doi.org/10.1109/MCE.2022.3178200</a> .   |
|                      | #WEI Yang, TSANG Kim Fung, WU Chung Kit, #WANG Hao, #LIU Yucheng, "A Multi-Leak Identification Scheme Using Multi-Classification for Water Distribution Infrastructure", <i>Applied Sciences (Switzerland)</i> , 12(4), 18 February 2022, doi: <a href="https://doi.org/10.3390/app12042128">https://doi.org/10.3390/app12042128</a> .  |
| <b>WONG Hiu Tung</b> | #WONG Hiu Tung, LEUNG Ho Chun, LEUNG Chi Sing Andrew, WONG Wing Ming Eric, "Noise/fault aware regularization for incremental learning in extreme learning machines", <i>Neurocomputing</i> , 486, 26 November 2021, pp 200-214, doi: <a href="https://doi.org/10.1016/j.neucom.2021.11.026">https://doi.org/10.1016/j.neucom.2021.11.026</a> .  |
|                      | #WONG Hiu Tung, LEUNG Chi Sing Andrew, KWONG Tak Wu Sam, "Convergence analysis on the deterministic mini-batch learning algorithm for noise resilient radial basis function networks", <i>International Journal of Machine Learning and Cybernetics</i> , 13(8), 06 April 2022, pp 2677–2690, doi: <a href="https://doi.org/10.1007/s13042-022-01550-6">https://doi.org/10.1007/s13042-022-01550-6</a> .  |
| <b>WU Chong</b>      | #WU Chong, #FENG Zhenan, ZHENG Jiangbin, #ZHANG Houwang, CAO Jiawang, YAN Hong, "Star topology convolution for graph representation learning", <i>Complex &amp; Intelligent Systems</i> , 04 May 2022, doi: <a href="https://doi.org/10.1007/s40747-022-00744-3">https://doi.org/10.1007/s40747-022-00744-3</a> .   |
|                      | ZHENG Jiangbin, CHEN Yidong, #WU Chong, SHI Xiaodong, KAMAL Suhail Muhammad, "Enhancing Neural Sign Language Translation by Highlighting the Facial Expression Information", <i>Neurocomputing</i> , 464, 20 August 2021, pp 462-472, doi: <a href="https://doi.org/10.1016/j.neucom.2021.08.079">https://doi.org/10.1016/j.neucom.2021.08.079</a> .  |
| <b>WU Wuwei</b>      | #WU Wuwei, CHEN Jianqi, CHEN Jie, "Stability Analysis of Systems with Recurrent Neural Network Controllers", <i>IFAC-PapersOnLine</i> , 55(12), 2022, pp 170-175, doi: <a href="https://doi.org/10.1016/j.ifacol.2022.07.306">https://doi.org/10.1016/j.ifacol.2022.07.306</a> .  |
| <b>XIA Yunpeng</b>   | YANG Peng, #ZHA Jijia, GAO Guoyun, ZHENG Long, #HUANG Haoxin, #XIA Yunpeng, XU Songcen, #XIONG Tengfei, #ZHANG Zhuomin, YANG Zhengbao, CHEN Ye, KI Dong-Keun, LIOU Juin J., LIAO Wugang, TAN Chaoliang, "Growth of Tellurium Nanobelts on h-BN for p-type Transistors with Ultrahigh Hole Mobility", <i>Nano-Micro Letters</i> , 14(1), 19 April 2022, doi: <a href="https://doi.org/10.1007/s40820-022-00852-2">https://doi.org/10.1007/s40820-022-00852-2</a> . |
| <b>XIAN Pengfei</b>  | #OU Weifeng, PO Lai Man, ZHOU Chang, #XIAN Pengfei, #XIONG Jingjing, "GAN-based Inter-Class Sample Generation for Contrastive Learning of Vein Image  |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | <p>Representations", <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i>, 4(2), 21 February 2022, pp 249-262, doi: <a href="https://doi.org/10.1109/TBIOM.2022.3152345">https://doi.org/10.1109/TBIOM.2022.3152345</a>.</p>   |
|                       | <p>#<u>YU Wing Yin</u>, <u>PO Lai Man</u>, #XIONG Jingjing, #ZHAO Yuzhi, #XIAN Pengfei, "ShaTure: Shape and Texture Deformation for Human Pose and Attribute Transfer", <i>IEEE Transactions on Image Processing</i>, 31, 11 March 2022, pp 2541-2556, doi: <a href="https://doi.org/10.1109/TIP.2022.3157146">https://doi.org/10.1109/TIP.2022.3157146</a>.</p>   |
|                       | <p>#XIAN Pengfei, <u>PO Lai Man</u>, #XIONG Jingjing, ZHOU Chang, #ZHAO Yuzhi, #YU Wing Yin, #OU Weifeng, #ZHANG Yujia, ZHANG Xiaori, "Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation", <i>Expert Systems with Applications</i>, 193, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.116438">https://doi.org/10.1016/j.eswa.2021.116438</a>.</p> |
| <b>XIANG Bingjie</b>  | <p>#XIAN Bingjie, #DAI Xin, LUK Kwai Man, "A Wideband 2-Bit Transmitarray Antenna for Millimeter-Wave Vehicular Communication", <i>IEEE Transactions on Vehicular Technology</i>, 71(9), 30 May 2022, pp 9202-9211, doi: <a href="https://doi.org/10.1109/TVT.2022.3178843">https://doi.org/10.1109/TVT.2022.3178843</a>.</p>  |
| <b>XIAO Yuqi</b>      | <p>#XIAO Yuqi, LEUNG Kwok Wa, LU Kai, LEUNG Chi Sing Andrew, "Mode Recognition of Rectangular Dielectric Resonator Antenna Using Artificial Neural Network", <i>IEEE Transactions on Antennas and Propagation</i>, 02 February 2022, doi: <a href="https://doi.org/10.1109/TAP.2022.3146860">https://doi.org/10.1109/TAP.2022.3146860</a>.</p>   |
| <b>XIONG Jingjing</b> | <p>#OU Weifeng, <u>PO Lai Man</u>, ZHOU Chang, #XIAN Pengfei, #XIONG Jingjing, "GAN-based Inter-Class Sample Generation for Contrastive Learning of Vein Image Representations", <i>IEEE Transactions on Biometrics, Behavior, and Identity Science</i>, 4(2), 21 February 2022, pp 249-262, doi: <a href="https://doi.org/10.1109/TBIOM.2022.3152345">https://doi.org/10.1109/TBIOM.2022.3152345</a>.</p>       |
|                       | <p>#YU Wing Yin, <u>PO Lai Man</u>, #XIONG Jingjing, #ZHAO Yuzhi, #XIAN Pengfei, "ShaTure: Shape and Texture Deformation for Human Pose and Attribute Transfer", <i>IEEE Transactions on Image Processing</i>, 31, 11 March 2022, pp 2541-2556, doi: <a href="https://doi.org/10.1109/TIP.2022.3157146">https://doi.org/10.1109/TIP.2022.3157146</a>.</p>  |
|                       | <p>#XIAN Pengfei, <u>PO Lai Man</u>, #XIONG Jingjing, ZHOU Chang, #ZHAO Yuzhi, #YU Wing Yin, #OU Weifeng, #ZHANG Yujia, ZHANG Xiaori, "Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation", <i>Expert Systems with Applications</i>, 193, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.116438">https://doi.org/10.1016/j.eswa.2021.116438</a>.</p> |
|                       | <p>#ZHANG Yujia, <u>PO Lai Man</u>, #XIONG Jingjing, REHMAN Yasar Abbas Ur, CHEUNG Kwok Wai, "ASNet: Auto-augmented siamese neural network for action recognition", <i>Sensors</i>, 21(14), 10 July 2021, doi: <a href="https://doi.org/10.3390/s21144720">https://doi.org/10.3390/s21144720</a>.</p>  |
|                       | <p>#XIONG Jingjing, <u>PO Lai Man</u>, #YU Wing Yin, #ZHAO Yuzhi, CHEUNG Kwok Wai, "Distortion Map-Guided Feature Rectification for Efficient Video Semantic Segmentation", <i>IEEE Transactions on Multimedia</i>, 16 December 2021, doi: <a href="https://doi.org/10.1109/TMM.2021.3136085">https://doi.org/10.1109/TMM.2021.3136085</a>.</p>  |
| <b>XU Jiahe</b>       | <p>#GUO Chao, #WANG Xinyu, SHEN Gangxiang, BOSE Sanjay Kumar, #XU Jiahe, ZUKERMAN Moshe, "Exploring the Benefits of Resource Disaggregation for Service Reliability in Data Centers", <i>IEEE Transactions on Cloud Computing</i>, 16 February 2022, doi: <a href="https://doi.org/10.1109/TCC.2022.3151923">https://doi.org/10.1109/TCC.2022.3151923</a>.</p>   |
| <b>YANG Chen</b>      | <p>#YANG Chen, LU Kai, LEUNG Kwok Wa, "Dielectric Decoupler for Compact MIMO Antenna Systems", <i>IEEE Transactions on Antennas and Propagation</i>, 70(8), 30 May 2022, pp 6444-6454, doi: <a href="https://doi.org/10.1109/TAP.2022.3177555">https://doi.org/10.1109/TAP.2022.3177555</a>.</p>   |
|                       | <p>#YANG Chen, #GUO Xiaoqing, #CHEN Zhen, YUAN Yixuan, "Source free domain adaptation for medical image segmentation with fourier style mining", <i>Medical Image Analysis</i>, 79, 12 April 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102457">https://doi.org/10.1016/j.media.2022.102457</a>.</p>   |
|                       | <p>#GUO Xiaoqing, #YANG Chen, YUAN Yixuan, "Dynamic-weighting hierarchical segmentation network for medical images", <i>Medical Image Analysis</i>, 73, 29 July 2021, doi: <a href="https://doi.org/10.1016/j.media.2021.102196">https://doi.org/10.1016/j.media.2021.102196</a>.</p>  |
| <b>YANG Chen</b>      | <p>#HE Yunhu, CHEN Zhou, #KONG Shangcheng, #MAO Zhengyi, #YANG Chen, #WANG Wanying, #WAN Lei, LIU Guo, #YIN Jianan, CHAN Chi Hou, LU Jian, "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i>, 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a>.</p>                                      |
| <b>YANG Jingwei</b>   | <p>#CHEN Zhaoxi, #YANG Jingwei, WONG Wing Han Polis, PUN Yue Bun Edwin, WANG Cheng, "Broadband adiabatic polarization rotator-splitter based on a lithium niobate on</p>   |

Section A: Publications of PhD Students

|                    |   |
|--------------------|---|
|                    | insulator platform", <i>Photonics Research</i> , 9(12), 08 November 2021, pp 2319-2324, doi: <a href="https://doi.org/10.1364/PRJ.432906">https://doi.org/10.1364/PRJ.432906</a> .  |
| <b>YANG Qiushi</b> | # <a href="#">YANG Qiushi</a> , # <a href="#">GUO Xiaqing</a> , # <a href="#">CHEN Zhen</a> , WOO Peter Y.M., <a href="#">YUAN Yixuan</a> , "D2-Net: Dual Disentanglement Network for Brain Tumor Segmentation with Missing Modalities", <i>IEEE Transactions on Medical Imaging</i> , 16 May 2022, doi: <a href="https://doi.org/10.1109/TMI.2022.3175478">https://doi.org/10.1109/TMI.2022.3175478</a> .  |
| <b>YANG Ye</b>     | # <a href="#">YANG Ye</a> , # <a href="#">PAN Yufei</a> , ZHENG Shaoyong, HONG Wonbin, <a href="#">CHAN Wing Shing</a> , "Analytical Design Method and Implementation of Broadband 4 x 4 Nolen Matrix", <i>IEEE Transactions on Microwave Theory and Techniques</i> , 70(1), 01 November 2021, pp 343-355, doi: <a href="https://doi.org/10.1109/TMTT.2021.3121393">https://doi.org/10.1109/TMTT.2021.3121393</a> .   |
| <b>YU Wing Yin</b> | # <a href="#">ZHAO Yuzhi</a> , <a href="#">PO Lai Man</a> , WANG Xuehui, YAN Qiong, SHEN Wei, # <a href="#">ZHANG Yujia</a> , LIU Wei, WONG Chun Kit, PANG Chiu-sing, # <a href="#">OU Weifeng</a> , # <a href="#">YU Wing Yin</a> , LIU Buhua, "ChildPredictor: A Child Face Prediction Framework with Disentangled Learning", <i>IEEE Transactions on Multimedia</i> , 05 April 2022, doi: <a href="https://doi.org/10.1109/TMM.2022.3164785">https://doi.org/10.1109/TMM.2022.3164785</a> .  |
|                    | # <a href="#">YU Wing Yin</a> , <a href="#">PO Lai Man</a> , # <a href="#">XIONG Jingjing</a> , # <a href="#">ZHAO Yuzhi</a> , # <a href="#">XIAN Pengfei</a> , "ShaTure: Shape and Texture Deformation for Human Pose and Attribute Transfer", <i>IEEE Transactions on Image Processing</i> , 31, 11 March 2022, pp 2541-2556, doi: <a href="https://doi.org/10.1109/TIP.2022.3157146">https://doi.org/10.1109/TIP.2022.3157146</a> .  |
|                    | # <a href="#">XIAN Pengfei</a> , <a href="#">PO Lai Man</a> , # <a href="#">XIONG Jingjing</a> , <a href="#">ZHOU Chang</a> , # <a href="#">ZHAO Yuzhi</a> , # <a href="#">YU Wing Yin</a> , # <a href="#">OU Weifeng</a> , # <a href="#">ZHANG Yujia</a> , ZHANG Xiaori, "Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation", <i>Expert Systems with Applications</i> , 193, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.116438">https://doi.org/10.1016/j.eswa.2021.116438</a> .  |
|                    | # <a href="#">XIONG Jingjing</a> , <a href="#">PO Lai Man</a> , # <a href="#">YU Wing Yin</a> , # <a href="#">ZHAO Yuzhi</a> , CHEUNG Kwok Wai, "Distortion Map-Guided Feature Rectification for Efficient Video Semantic Segmentation", <i>IEEE Transactions on Multimedia</i> , 16 December 2021, doi: <a href="https://doi.org/10.1109/TMM.2021.3136085">https://doi.org/10.1109/TMM.2021.3136085</a> .  |
| <b>ZHA Jiajia</b>  | YE Ming, # <a href="#">ZHA Jiajia</a> , <a href="#">TAN Chaoliang</a> , CROZIER Kenneth B., "Graphene-based mid-infrared photodetectors using metamaterials and related concepts", <i>Applied Physics Reviews</i> , 8(3), 19 July 2021, doi: <a href="https://doi.org/10.1063/5.0049633">https://doi.org/10.1063/5.0049633</a> .  |
|                    | ZHAO Qiuni, JIANG Yadong, DUAN Zaihua, YUAN Zhen, # <a href="#">ZHA Jiajia</a> , WU Zhikang, HUANG Qi, ZHOU Zhan, LI Hai, HE Feng, SU Yuanjie, <a href="#">TAN Chaoliang</a> , TAI Huiling, "A Nb <sub>2</sub> CT <sub>x</sub> /sodium alginate-based composite film with neuron-like network for self-powered humidity sensing", <i>Chemical Engineering Journal</i> , 438, 03 March 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135588">https://doi.org/10.1016/j.cej.2022.135588</a> .  |
|                    | SHEN Weicheng, HU Tingting, LIU Xueyan, # <a href="#">ZHA Jiajia</a> , MENG Fanqi, WU Zhikang, CUI Zhuolin, YANG Yu, LI Hai, ZHANG Qinghua, GU Lin, LIANG Ruizheng, <a href="#">TAN Chaoliang</a> , "Defect engineering of layered double hydroxide nanosheets as inorganic photosensitizers for NIR-III photodynamic cancer therapy", <i>Nature Communications</i> , 13, 13 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31106-9">https://doi.org/10.1038/s41467-022-31106-9</a> .  |
|                    | <a href="#">YANG Peng</a> , # <a href="#">ZHA Jiajia</a> , GAO Guoyun, ZHENG Long, # <a href="#">HUANG Haoxin</a> , # <a href="#">XIA Yunpeng</a> , XU Songcen, # <a href="#">XIONG Tengfei</a> , # <a href="#">ZHANG Zhuomin</a> , <a href="#">YANG Zhengbao</a> , CHEN Ye, KI Dong-Keun, LIOU Juin J., LIAO Wugang, <a href="#">TAN Chaoliang</a> , "Growth of Tellurium Nanobelts on h-BN for p-type Transistors with Ultrahigh Hole Mobility", <i>Nano-Micro Letters</i> , 14(1), 19 April 2022, doi: <a href="https://doi.org/10.1007/s40820-022-00852-2">https://doi.org/10.1007/s40820-022-00852-2</a> . |
|                    | # <a href="#">ZHA Jiajia</a> , YUAN Zhen, ZHOU Zhan, LI Yang, <a href="#">ZHAO Jiangqi</a> , <a href="#">ZENG Zhiyuan</a> , ZHEN Liang, TAI Huiling, <a href="#">TAN Chaoliang</a> , <a href="#">ZHANG Hua</a> , "Self-Assembly of 2D Nanosheets into 1D Nanostructures for Sensing NO <sub>2</sub> ", <i>Small Structures</i> , 2(9), 14 July 2021, doi: <a href="https://doi.org/10.1002/sstr.202100067">https://doi.org/10.1002/sstr.202100067</a> .   |
|                    | ZHOU Zhan, WANG Yanlong, PENG Feng, MENG Fanqi, # <a href="#">ZHA Jiajia</a> , MA Lu, DU Yonghua, PENG Na, MA Lufang, ZHANG Qinghua, GU Lin, YIN Wenyan, GU Zhanjun, <a href="#">TAN Chaoliang</a> , "Intercalation-Activated Layered MoO <sub>3</sub> Nanobelts as Biodegradable Nanozymes for Tumor-Specific Photo-Enhanced Catalytic Therapy", <i>Angewandte Chemie - International Edition</i> , 61(16), 25 January 2022, doi: <a href="https://doi.org/10.1002/anie.202115939">https://doi.org/10.1002/anie.202115939</a> .  |
|                    | # <a href="#">ZHA Jiajia</a> , <a href="#">LUO Mingcheng</a> , YE Ming, AHMED Tanveer, YU Xuechao, LIEN Der-Hsien, <a href="#">HE Qiyuan</a> , <a href="#">LEI Dangyuan</a> , <a href="#">HO Johnny Chung Yin</a> , BULLOCK James, CROZIER Kenneth B., <a href="#">TAN</a>  |

Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
|                          | <u>Chaoliang</u> , "Infrared Photodetectors Based on 2D Materials and Nanophotonics", <i>Advanced Functional Materials</i> , 32(15), 29 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111970">https://doi.org/10.1002/adfm.202111970</a> .  |
| <b>ZHANG Houwang</b>     | # <u>WU Chong</u> , # <u>FENG Zhenan</u> , <u>ZHENG Jiangbin</u> , # <u>ZHANG Houwang</u> , <u>CAO Jiawang</u> , <u>YAN Hong</u> , "Star topology convolution for graph representation learning", <i>Complex &amp; Intelligent Systems</i> , 04 May 2022, doi: <a href="https://doi.org/10.1007/s40747-022-00744-3">https://doi.org/10.1007/s40747-022-00744-3</a> .<br><u>ZHU Yuan</u> , # <u>ZHANG Houwang</u> , <u>YANG Yuanhang</u> , <u>ZHANG Chaoyang</u> , <u>OU-YANG Le</u> , <u>BAI Litai</u> , <u>DENG Minghua</u> , <u>YI Ming</u> , <u>LIU Song</u> , <u>WANG Chao</u> , "Discovery of pan-cancer related genes via integrative network analysis", <i>Briefings in Functional Genomics</i> , 21(4), 28 June 2022, pp 325-338, doi: <a href="https://doi.org/10.1093/bfpg/elac012">https://doi.org/10.1093/bfpg/elac012</a> .   |
| <b>ZHANG Jingcheng</b>   | <u>CHEN Mu Ku</u> , <u>CHU Cheng Hung</u> , # <u>LIU Xiaoyuan</u> , # <u>ZHANG Jingcheng</u> , <u>SUN Linshan</u> , <u>YAO Jin</u> , <u>FAN Yubin</u> , <u>LIANG Yao</u> , <u>YAMAGUCHI Takeshi</u> , <u>TANAKA Takuo</u> , <u> TSAI Din-ping</u> , "Meta-Lens in the Sky", <i>IEEE Access</i> , 10, 29 April 2022, pp 46552-46557, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3171351">https://doi.org/10.1109/ACCESS.2022.3171351</a> .   |
| <b>ZHANG Kun</b>         | # <u>ZHANG Kun</u> , <u>WANG Kewei</u> , <u>CHUNG Shu Hung Henry</u> , "High-Attenuation Wideband Active Common-Mode EMI Filter Section", <i>IEEE Transactions on Power Electronics</i> , 37(5), 24 November 2021, pp 5479-5490, doi: <a href="https://doi.org/10.1109/TPEL.2021.3130240">https://doi.org/10.1109/TPEL.2021.3130240</a> .  |
| <b>ZHANG Xu</b>          | <u>GUO Jing</u> , <u>YANG Shuai</u> , <u>YANG Zhile</u> , # <u>LEI Lei</u> , # <u>ZHANG Xu</u> , "Energy-balanced path optimization of UAV-assisted wireless power and information system", <i>Wireless Networks</i> , 28(5), 09 April 2022, pp 2047–2059, doi: <a href="https://doi.org/10.1007/s11276-022-02955-5">https://doi.org/10.1007/s11276-022-02955-5</a> .  |
| <b>ZHANG Yujia</b>       | # <u>ZHAO Yuzhi</u> , <u>PO Lai Man</u> , <u>WANG Xuehui</u> , <u>YAN Qiong</u> , <u>SHEN Wei</u> , # <u>ZHANG Yujia</u> , <u>LIU Wei</u> , <u>WONG Chun Kit</u> , <u>PANG Chiu-sing</u> , # <u>OU Weifeng</u> , # <u>YU Wing Yin</u> , <u>LIU Buhua</u> , "ChildPredictor: A Child Face Prediction Framework with Disentangled Learning", <i>IEEE Transactions on Multimedia</i> , 05 April 2022, doi: <a href="https://doi.org/10.1109/TMM.2022.3164785">https://doi.org/10.1109/TMM.2022.3164785</a> .<br># <u>ZHANG Yujia</u> , <u>PO Lai Man</u> , # <u>XIONG Jingjing</u> , <u>REHMAN Yasar Abbas Ur</u> , <u>CHEUNG Kwok Wai</u> , "ASNet: Auto-augmented siamese neural network for action recognition", <i>Sensors</i> , 21(14), 10 July 2021, doi: <a href="https://doi.org/10.3390/s21144720">https://doi.org/10.3390/s21144720</a> .<br># <u>XIAN Pengfei</u> , <u>PO Lai Man</u> , # <u>XIONG Jingjing</u> , <u>ZHOU Chang</u> , # <u>ZHAO Yuzhi</u> , # <u>YU Wing Yin</u> , # <u>OU Weifeng</u> , # <u>ZHANG Yujia</u> , <u>ZHANG Xiaori</u> , "Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation", <i>Expert Systems with Applications</i> , 193, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.116438">https://doi.org/10.1016/j.eswa.2021.116438</a> .   |
| <b>ZHAO Yuan</b>         | # <u>JIANG Mingjie</u> , # <u>ZHAO Yuan</u> , <u>CHIU Bernard Chi Yuen</u> , "Segmentation of common and internal carotid arteries from 3D ultrasound images based on adaptive triple loss", <i>Medical Physics</i> , 48(9), 26 July 2021, pp 5096-5114, doi: <a href="https://doi.org/10.1002/mp.15127">https://doi.org/10.1002/mp.15127</a> .  |
| <b>ZHAO Yuzhi</b>        | # <u>ZHAO Yuzhi</u> , <u>PO Lai Man</u> , <u>WANG Xuehui</u> , <u>YAN Qiong</u> , <u>SHEN Wei</u> , # <u>ZHANG Yujia</u> , <u>LIU Wei</u> , <u>WONG Chun Kit</u> , <u>PANG Chiu-sing</u> , # <u>OU Weifeng</u> , # <u>YU Wing Yin</u> , <u>LIU Buhua</u> , "ChildPredictor: A Child Face Prediction Framework with Disentangled Learning", <i>IEEE Transactions on Multimedia</i> , 05 April 2022, doi: <a href="https://doi.org/10.1109/TMM.2022.3164785">https://doi.org/10.1109/TMM.2022.3164785</a> .<br># <u>YU Wing Yin</u> , <u>PO Lai Man</u> , # <u>XIONG Jingjing</u> , # <u>ZHAO Yuzhi</u> , # <u>XIAN Pengfei</u> , "ShaTure: Shape and Texture Deformation for Human Pose and Attribute Transfer", <i>IEEE Transactions on Image Processing</i> , 31, 11 March 2022, pp 2541-2556, doi: <a href="https://doi.org/10.1109/TIP.2022.3157146">https://doi.org/10.1109/TIP.2022.3157146</a> .<br># <u>XIAN Pengfei</u> , <u>PO Lai Man</u> , # <u>XIONG Jingjing</u> , <u>ZHOU Chang</u> , # <u>ZHAO Yuzhi</u> , # <u>YU Wing Yin</u> , # <u>OU Weifeng</u> , # <u>ZHANG Yujia</u> , <u>ZHANG Xiaori</u> , "Pixel Voting Decoder: A novel decoder that regresses pixel relationships for segmentation", <i>Expert Systems with Applications</i> , 193, 31 December 2021, doi: <a href="https://doi.org/10.1016/j.eswa.2021.116438">https://doi.org/10.1016/j.eswa.2021.116438</a> .<br># <u>XIONG Jingjing</u> , <u>PO Lai Man</u> , # <u>YU Wing Yin</u> , # <u>ZHAO Yuzhi</u> , <u>CHEUNG Kwok Wai</u> , "Distortion Map-Guided Feature Rectification for Efficient Video Semantic Segmentation", <i>IEEE Transactions on Multimedia</i> , 16 December 2021, doi: <a href="https://doi.org/10.1109/TMM.2021.3136085">https://doi.org/10.1109/TMM.2021.3136085</a> . |
| <b>Conference papers</b> |  |

Section A: Publications of PhD Students

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|---|--|
| <b>AGADAGBA Stephen Kugbere</b>                   | #AGADAGBA Stephen Kugbere, #ELDALY Abdelrahman Bakr Mohammed Abdelnaby, CHAN L H Leanne, "ECoG Power Alterations Across Stages of Prolonged Transcorneal Electrical Stimulation in the Blind Mice", <i>2021 43rd Annual International Conference of the IEEE Engineering in Medicine &amp; Biology Society (EMBC)</i> , Virtual, 01-05 November 2021, pp 5784-5787, (ISBN: 978-1-7281-1179-7,978-1-7281-1180-3).   |
| <b>CHEN Zhaoxi</b>                                | #CHEN Zhaoxi, XU Qing, #ZHANG Ke, WONG Wing Han Polis, ZHANG De Long, PUN Yue Bun Edwin, WANG Cheng, "Efficient optical amplification in erbium-doped lithium niobate on insulator waveguides", <i>26th Optoelectronics and Communications Conference</i> , Virtual, Hong Kong, 03-07 July 2021, (ISBN: 978-1-943580-92-7).  |
| <b>CHEN Zhen</b>                                  | #LIU Xinyu, LI Baopu, #CHEN Zhen, YUAN Yixuan, "Exploring Gradient Flow Based Saliency for DNN Model Compression", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 3238–3246, (ISBN: 9781450386517).<br>#CHEN Zhen, #ZHU Meilu, #YANG Chen, YUAN Yixuan, "Personalized Retrogress-Resilient Framework for Real-World Medical Federated Learning", <i>Medical Image Computing and Computer Assisted Intervention – MICCAI 2021 - 24th International Conference Strasbourg, France, September 27 – October 1, 2021 Proceedings, Part III</i> , Virtual, Strasbourg, France, 27 September - 01 October 2021, pp 347-356, (ISBN: 978-3-030-87198-7,978-3-030-87199-4).            |
| <b>CHENG Yijun</b>                                | #CHENG Yijun, PANG Stella W., "Cell Traction Force Measured using Microposts with Nanopillars", <i>The 65th International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication</i> , Sheraton New Orleans, New Orleans, United States, 31 May - 03 June 2022.   |
| <b>DING Yanling</b>                               | CHEN Jianqi, QI Tian, #DING Yanling, PENG Hui, CHEN Jie, HARA Shinji, "Mean-Square Stabilizability Under Unstructured Stochastic Multiplicative Uncertainties: A Mean-Square Small-Gain Perspective", <i>2022 American Control Council</i> , Atlanta, United States, 08-10 June 2022, pp 1164-1169.  |
| <b>DONG Jiaxin</b>                                | #DONG Jiaxin, CHAN Sze Chun, "Revisiting External Cavity Modes for Laser Dynamical Switching", <i>International Symposium on Physics and Applications of Laser Dynamics 2021 (IS-PALD 2021)</i> , Saitama University (Zoom), Saitama, Japan, 16-18 November 2021, pp 11-12.  |
| <b>ELDALY Abdelrahman Bakr Mohammed Abdelnaby</b> | #AGADAGBA Stephen Kugbere, #ELDALY Abdelrahman Bakr Mohammed Abdelnaby, CHAN L H Leanne, "ECoG Power Alterations Across Stages of Prolonged Transcorneal Electrical Stimulation in the Blind Mice", <i>2021 43rd Annual International Conference of the IEEE Engineering in Medicine &amp; Biology Society (EMBC)</i> , Virtual, 01-05 November 2021, pp 5784-5787, (ISBN: 978-1-7281-1179-7,978-1-7281-1180-3).<br>#MALIK Anju, #ELDALY Abdelrahman Bakr Mohammed Abdelnaby, CHAN L H Leanne, "Phase-amplitude modulation during critical period plasticity in mouse visual cortex", <i>2021 43rd Annual International Conference of the IEEE Engineering in Medicine &amp; Biology Society (EMBC)</i> , Virtual, 01-05 November 2021, pp 96-99, (ISBN: 9781728111797,9781728111803). |
| <b>FAN Xinqi</b>                                  | #FAN Xinqi, #JIANG Mingjie, "RetinaFaceMask: A Single Stage Face Mask Detector for Assisting Control of the COVID-19 Pandemic", <i>2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC)</i> , Melbourne, Australia, 17-20 October 2021, pp 832-837, (ISBN: 978-1-6654-4208-4,9781665442077).<br>#FAN Xinqi, #SHAHID Ali Raza, YAN Hong, "Facial Micro-Expression Generation based on Deep Motion Retargeting and Transfer Learning", <i>MM' 21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Virtual, China, 20-24 October 2021, pp 4735-4739, (ISBN: 978-1-4503-8651-7).  |
| <b>FANG Junyuan</b>                               | #FANG Junyuan, LIU Dong, TSE Chi Kong, "Predicting onset time of cascading failure in power systems using a neural network-based classifier", <i>2022 IEEE International Symposium on Circuits and Systems (ISCAS)</i> , The Austin Hilton (In-person & Virtual), Austin, United States, 28 May - 01 June 2022.  |
| <b>FENG Hanke</b>                                 | #FENG Hanke, #ZHANG Ke, SUN Wenzhao, REN Yangming, #ZHANG Yiwen, ZHANG Wenfu, WANG Cheng, "Highly linear integrated lithium niobate modulator based on   |

Section A: Publications of PhD Students

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|------------------------|---|
|                        | ring-assisted Mach-Zehnder interferometer", <i>CLEO: Science and Innovations, S and I 2022</i> , San Jose, United States, 15-20 May 2022, (ISBN: 9781557528209).  |
| <b>GARAJ Martin</b>    | DEL PRADO SANTAMARIA Rodrigo, DOS REIS BENATTO Gisele A., LANCIA Adrian A. Santamaria, #GARAJ Martin, THORSTEINSSON Sune, POULSEN Peter B., SPATARU Sergiu V., "Characterization of Electrical Parameters of Cracked Crystalline Silicon Solar Cells in Photovoltaic Modules", <i>2021 IEEE 48th Photovoltaic Specialists Conference, PVSC 2021</i> , Virtual, Fort Lauderdale, United States, 20-25 June 2021, pp 846-853, (ISBN: 978-1-6654-1922-2,978-1-6654-3018-0).  |
| <b>GUO Xiaoqing</b>    | #LIU Jie, #GUO Xiaoqing, LI Baopu, YUAN Yixuan, "COINet: Adaptive Segmentation with Co-Interactive Network for Autonomous Driving", <i>2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i> , Online, Prague, Czech Republic, 27 September - 01 October 2021, pp 4800-4806, (ISBN: 978-1-6654-1715-0,9781665417143).<br>#LIU Jie, #GUO Xiaoqing, YUAN Yixuan, "Prototypical Interaction Graph for Unsupervised Domain Adaptation in Surgical Instrument Segmentation", <i>Medical Image Computing and Computer Assisted Intervention – MICCAI 2021 - 24th International Conference Strasbourg, France, September 27 – October 1, 2021 Proceedings, Part III</i> , Virtual, Strasbourg, France, 27 September - 01 October 2021, pp 272-281, (ISBN: 978-3-030-87198-7,978-3-030-87199-4).  |
| <b>GUO Yongna</b>      | #GUO Yongna, #MOSTAFA Salwa Said Hamed, ZOU Jun, SUNG Chi Wan, "A Linear-Time Grouping Algorithm for F-RANs with Index Coding and Cache-Aided NOMA", <i>ICC 2021 - IEEE International Conference on Communications - Proceedings</i> , Virtual, Montreal, QC, Canada, 14-23 June 2021, (ISBN: 9781728171227,9781728171234).   |
| <b>HONG Xiao</b>       | #HONG Xiao, XU Yuanhao, PANG Stella W., "Interactions of Nasopharyngeal Carcinoma and Epithelial Cells in Microwell Array", <i>The 65th International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication</i> , Sheraton New Orleans, New Orleans, United States, 31 May - 03 June 2022.  |
| <b>HONG Yiwen</b>      | #HONG Yiwen, CHUNG Shu Hung Henry, LO Alan Wai-Lun, WANG Huai, "Plug-and-Play" Tiny AI-Empowered Output Filter Parameter Extraction Framework with Single RNN Cell for Digital Power", <i>2021 IEEE Energy Conversion Congress and Exposition (ECCE 2021) - PROCEEDINGS</i> , Virtual, Canada, 10-14 October 2021, pp 2755-2761, (ISBN: 9781728151359,9781728161280).   |
| <b>HU Haotao</b>       | #HU Haotao, CHAN Chi Hou, "An SIW-Fed Wideband Filtenna for 5G Millimeter-Wave Communications", <i>2021 IEEE MTT-S International Microwave Filter Workshop (IMFW)</i> , Perugia, Italy, 17-19 November 2021, pp 53-55, (ISBN: 9781728168043,9781728168050).   |
| <b>JIANG Lianzhong</b> | #JIANG Lianzhong, HUANG Quandong, CHIANG Kin Seng, "Graphene-Buried Polymer Waveguide Mach-Zehnder Interferometer for Low-Power All-Optical Switching", <i>Proceedings - 26th Optoelectronics and Communications Conference</i> , Virtual, Hong Kong, 03-07 July 2021, (ISBN: 978-1-943580-92-7).   |
| <b>JIANG Mingjie</b>   | #FAN Xinqi, #JIANG Mingjie, "RetinaFaceMask: A Single Stage Face Mask Detector for Assisting Control of the COVID-19 Pandemic", <i>2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC)</i> , Melbourne, Australia, 17-20 October 2021, pp 832-837, (ISBN: 978-1-6654-4208-4,9781665442077).   |
| <b>KHAN Tayyab Ali</b> | #LI Peixing, #KHAN Tayyab Ali, WONG Man Hon Alex, "A Wideband High-Gain Resonator Cavity Antenna with 2-Level Stepped Ground", <i>2021 IEEE Asia-Pacific Microwave Conference (APMC)</i> , Virtual, Brisbane, Australia, 28 November - 01 December 2021, pp 196-198, (ISBN: 978-1-6654-3782-0,978-1-6654-3783-7).<br>#KHAN Tayyab Ali, WONG Man Hon Alex, "Wideband High-Gain Open Resonator Antenna Using a Flat Impedance Surface", <i>2021 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting - PROCEEDINGS</i> , Singapore, 04-10 December 2021, pp 1966-1967, (ISBN: 978-1-7281-4670-6,978-1-7281-4671-3).<br>#KHAN Tayyab Ali, WONG Man Hon Alex, "Design of an Open Resonator Antenna using True Time Delay Metasurfaces", <i>22nd IEEE (HK) AP/MTT Postgraduate Conference</i> , Virtual, Hong Kong, 20 November 2021. |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
| <b>LAU Kin Wai</b>  | # <u>YU Wing Yin</u> , <u>PO Lai Man</u> , # <u>ZHAO Yuzhi</u> , # <u>XIONG Jingjing</u> , # <u>LAU Kin Wai</u> , "Spatial Content Alignment for Pose Transfer", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i> , Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 9781665411523,9781665438643).  |
| <b>LI Wuyang</b>    | # <u>LIU Xinyu</u> , # <u>LI Wuyang</u> , # <u>YANG Qiushi</u> , <u>LI Baopu</u> , <u>YUAN Yixuan</u> , "Towards Robust Adaptive Object Detection under Noisy Annotations", <i>2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 14207-14216.   |
|                     | # <u>LI Wuyang</u> , # <u>LIU Xinyu</u> , <u>YAO Xiwen</u> , <u>YUAN Yixuan</u> , "SCAN: Cross Domain Object Detection with Semantic Conditioned Adaptation", <i>Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'2022)</i> , Virtual Conference, 22 February - 01 March 2022, pp 1421-1428, (ISBN: 978-1-57735-876-3 ).  |
|                     | # <u>LI Wuyang</u> , # <u>LIU Xinyu</u> , <u>YUAN Yixuan</u> , "SIGMA: Semantic-Complete Graph Matching for Domain Adaptive Object Detection", <i>2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 5291-5300.  |
| <b>LI Yuanlong</b>  | <u>ZHU Shuyan</u> , # <u>LI Yuanlong</u> , <u>WU Gengbo</u> , <u>CHAN Chi Hou</u> , <u>LUK Kwai Man</u> , <u>PANG Stella W.</u> , "Imprint and Si Dry Etching Technologies for THz Antennas at 1 THz", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Sentosa Hotel Shenzhen Emerald Branch (Live & Virtual), Shenzhen, China, 11-13 October 2021, pp 372-373, (ISBN: 9781665432436,9781665432443).                                       |
| <b>LI Yunli</b>     | # <u>LI Yunli</u> , <u>CHUN Young Jin</u> , "Stochastic Geometric Analysis of IRS-aided Wireless Networks Using Mixture Gamma Model", <i>Innovative Mobile and Internet Services in Ubiquitous Computing - Proceedings of the 15th International Conference on Innovative Mobile and Internet Services in Ubiquitous Computing (IMIS-2021)</i> , Soon Chun Hyang University (Zoom Meeting), Asan, Korea, Republic of, 01-03 July 2021, pp 168-178, (ISBN: 9783030797270,9783030797287).   |
| <b>LIU Jie</b>      | # <u>LIU Jie</u> , # <u>GUO Xiaoqing</u> , <u>LI Baopu</u> , <u>YUAN Yixuan</u> , "COINet: Adaptive Segmentation with Co-Interactive Network for Autonomous Driving", <i>2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i> , Online, Prague, Czech Republic, 27 September - 01 October 2021, pp 4800-4806, (ISBN: 978-1-6654-1715-0,9781665417143).   |
|                     | # <u>LIU Jie</u> , # <u>GUO Xiaoqing</u> , <u>YUAN Yixuan</u> , "Prototypical Interaction Graph for Unsupervised Domain Adaptation in Surgical Instrument Segmentation", <i>Medical Image Computing and Computer Assisted Intervention – MICCAI 2021 - 24th International Conference Strasbourg, France, September 27 – October 1, 2021 Proceedings, Part III</i> , Virtual, Strasbourg, France, 27 September - 01 October 2021, pp 272-281, (ISBN: 978-3-030-87198-7,978-3-030-87199-4). |
| <b>LIU Qi</b>       | # <u>CHEN Tsung Yu</u> , <u>LIN Hsiang-Jui</u> , <u>SHIH Chi-Sheng</u> , # <u>KUO Kuan Ting</u> , # <u>LIU Qi</u> , <u>CHAN Ho Man</u> , "Prediction of Human Intention in Vehicles, Pedestrians and Bicyclists Interactions", <i>2021 IEEE International Intelligent Transportation Systems Conference (ITSC)</i> , Indianapolis, United States, 19-22 September 2021, pp 64-69, (ISBN: 9781728191423,9781728191430).  |
| <b>LIU Xiaoyuan</b> | <u>CHEN Mu Ku</u> , # <u>LIU Xiaoyuan</u> , <u>FAN Yubin</u> , <u>YAO Jin</u> , <u>ZHANG Jincheng</u> , <u>SUN Linshan</u> , <u> TSAI Din-ping</u> , "Intelligent Meta-lens Array for Autonomous Sensing", <i>CLEO: Science and Innovations, S and I 2022</i> , San Jose, United States, 15-20 May 2022, (ISBN: 9781557528209).   |
|                     | <u>CHEN Mu Ku</u> , <u>FAN Yubin</u> , <u>YAO Jin</u> , # <u>LIU Xiaoyuan</u> , <u>ZHANG Jincheng</u> , <u>SUN Linshan</u> , <u>CHIA Yu Hsin</u> , <u>KUO Hsin Yu</u> , <u>CHU Cheng Hung</u> , <u>VYAS Sunil</u> , <u>LUO Yuan</u> , <u> TSAI Din-ping</u> , "Varifocal Meta-lens for Fluorescence Microscopy", <i>CLEO: QELS Fundamental Science, QELS 2022</i> , San Jose, United States, 15-20 May 2022, (ISBN: 9781557528209).   |
| <b>LIU Xinyu</b>    | # <u>LIU Xinyu</u> , <u>LI Baopu</u> , # <u>CHEN Zhen</u> , <u>YUAN Yixuan</u> , "Exploring Gradient Flow Based Saliency for DNN Model Compression", <i>MM '21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Hybrid (Onsite and Virtual), Chengdu, China, 20-24 October 2021, pp 3238–3246, (ISBN: 9781450386517).   |



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|                                 |  |
|---------------------------------|--|
|                                 | <p>#<a href="#">LIU Xinyu</a>, #<a href="#">LI Wuyang</a>, #<a href="#">YANG Qiushi</a>, <a href="#">LI Baopu</a>, <a href="#">YUAN Yixuan</a>, "Towards Robust Adaptive Object Detection under Noisy Annotations", <i>2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i>, Hybrid, New Orleans, United States, 19-24 June 2022, pp 14207-14216.</p>   |
|                                 | <p>#<a href="#">LI Wuyang</a>, #<a href="#">LIU Xinyu</a>, <a href="#">YAO Xiwen</a>, <a href="#">YUAN Yixuan</a>, "SCAN: Cross Domain Object Detection with Semantic Conditioned Adaptation", <i>Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'2022)</i>, Virtual Conference, 22 February - 01 March 2022, pp 1421-1428, (ISBN: 978-1-57735-876-3 ).</p>   |
|                                 | <p>#<a href="#">LI Wuyang</a>, #<a href="#">LIU Xinyu</a>, <a href="#">YUAN Yixuan</a>, "SIGMA: Semantic-Complete Graph Matching for Domain Adaptive Object Detection", <i>2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i>, Hybrid, New Orleans, United States, 19-24 June 2022, pp 5291-5300.</p>   |
| <b>LIU Xiyao</b>                | <p>#<a href="#">LIU Xiyao</a>, <a href="#">LEUNG Kwok Wa</a>, <a href="#">YANG Nan</a>, "A Filtering Hemispherical Dielectric Resonator Antenna", <i>2021 International Symposium on Antennas and Propagation (ISAP)</i>, Taipei, Taiwan, 19-22 October 2021, (ISBN: 9781665431132,9789868478718).</p>   |
|                                 | <p>#<a href="#">LIU Xiyao</a>, <a href="#">LEUNG Kwok Wa</a>, <a href="#">YANG Nan</a>, "A Filtering Dielectric Resonator Antenna with Defected Ground Structures", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i>, Live &amp; Virtual, Shenzhen, China, 11-13 October 2021, pp 328-330, (ISBN: 9781665432436,9781665432443).</p>  |
| <b>LIU Yucheng</b>              | <p><a href="#">NISHI Hiroaki</a>, <a href="#">SONG Eugene Y.</a>, <a href="#">NAKAMURA Yuichi</a>, <a href="#">LEE Kang B.</a>, #<a href="#">LIU Yucheng</a>, <a href="#">TSANG Kim Fung</a>, "Time Synchronization of IEEE P1451.0 and P1451.1.6 Standard-based Sensor Networks", <i>IECON 2021 - 47th Annual Conference of the IEEE Industrial Electronics Society</i>, Virtual, Toronto, Canada, 13-16 October 2021, (ISBN: 978-1-6654-0256-9,978-1-6654-3554-3).</p> |
|                                 | <p>#<a href="#">WEI Yang</a>, #<a href="#">LIU Yucheng</a>, <a href="#">TSANG Kim Fung</a>, #<a href="#">WANG Hao</a>, "Modeling of IEEE 1451-Standardized Low Power Wide Area Networks", <i>Proceedings - 2021 IEEE 19th International Conference on Industrial Informatics (INDIN)</i>, Universitat de les Illes Balears, Virtual, Mallorca, Spain, 21-23 July 2021, (ISBN: 9781728143958,9781728143965).</p>  |
| <b>MALIK Anju</b>               | <p>#<a href="#">MALIK Anju</a>, #<a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a>, <a href="#">CHAN L H Leanne</a>, "Phase-amplitude modulation during critical period plasticity in mouse visual cortex", <i>2021 43rd Annual International Conference of the IEEE Engineering in Medicine &amp; Biology Society (EMBC)</i>, Virtual, 01-05 November 2021, pp 96-99, (ISBN: 9781728111797,9781728111803).</p>   |
| <b>MAO Qi</b>                   | <p>#<a href="#">MAO Qi</a>, <a href="#">XU Yong</a>, <a href="#">CHEN Jianqi</a>, <a href="#">CHEN Jie</a>, <a href="#">GEORGIU Tryphon</a>, "Maximal Gain and Phase Margins Attainable by PID Control", <i>2021 60th IEEE Conference on Decision and Control (CDC)</i>, Fairmont Hotel (Virtual), Austin, United States, 13-17 December 2021, pp 1820-1825, (ISBN: 9781665436595,9781665436601).</p>  |
| <b>MOSTAFA Salwa Said Hamed</b> | <p><a href="#">JIA Yulei</a>, <a href="#">XU Guangping</a>, <a href="#">SUNG Chi Wan</a>, #<a href="#">MOSTAFA Salwa Said Hamed</a>, <a href="#">WU Yulei</a>, "Hraft: Adaptive Erasure Coded Data Maintenance for Consensus in Distributed Networks", <i>Proceedings - 2022 IEEE 36th International Parallel and Distributed Processing Symposium, IPDPS 2022</i>, Virtual, Online, France, 30 May - 03 June 2022, pp 1316-1326, (ISBN: 9781665481069).</p>             |
|                                 | <p>#<a href="#">GUO Yongna</a>, #<a href="#">MOSTAFA Salwa Said Hamed</a>, <a href="#">ZOU Jun</a>, <a href="#">SUNG Chi Wan</a>, "A Linear-Time Grouping Algorithm for F-RANs with Index Coding and Cache-Aided NOMA", <i>ICC 2021 - IEEE International Conference on Communications - Proceedings</i>, Virtual, Montreal, QC, Canada, 14-23 June 2021, (ISBN: 9781728171227,9781728171234).</p>  |
|                                 | <p><a href="#">JIA Yulei</a>, <a href="#">XU Guangping</a>, <a href="#">SUNG Chi Wan</a>, #<a href="#">MOSTAFA Salwa Said Hamed</a>, "Adaptive Erasure Coded Data Maintenance for Consensus in Distributed Networks", <i>Proceedings - 2021 40th International Symposium on Reliable Distributed Systems, SRDS 2021</i>, Virtual, Chicago, United States, 20-23 September 2021, pp 345-346, (ISBN: 978-1-6654-3819-3,978-1-6654-3820-9).</p>                             |
| <b>OU Weifeng</b>               | <p>#<a href="#">ZHANG Yujia</a>, <a href="#">PO Lai Man</a>, <a href="#">XU Xuyuan</a>, <a href="#">LIU Mengyang</a>, <a href="#">WANG Yexin</a>, #<a href="#">OU Weifeng</a>, #<a href="#">ZHAO Yuzhi</a>, #<a href="#">YU Wing Yin</a>, "Contrastive Spatio-Temporal Pretext Learning for Self-supervised Video Representation", <i>Proceedings of the 36th AAAI Conference on Artificial</i></p>  |

Section A: Publications of PhD Students

|                                |   |
|--------------------------------|---|
|                                | <i>Intelligence (AAAI'2022)</i> , Virtual Conference, 22 February - 01 March 2022, pp 3380-3389, (ISBN: 978-1-57735-876-3 ).  |
| <b>OYESINA Kayode Adedotun</b> | <u>SHARMA Abhishek</u> , # <u>QI Chu</u> , # <u>OYESINA Kayode Adedotun</u> , <u>WONG Man Hon Alex</u> , "Coarsely Discretized Huygens' Metasurface: Manipulating EM Waves with Simplicity", <i>Proceedings of IEEE CONECCT 2021 - 7th International Conference on Electronics, Computing and Communication Technologies</i> , Virtual, India, 09-11 July 2021, (ISBN: 9781665428491,9781665428507).  |
| <b>PAN Yufei</b>               | # <u>PAN Yufei</u> , # <u>YANG Ye</u> , <u>CHAN Wing Shing</u> , "Design of Mechanically Reconfigurable Couplers Based on Cross-shape Metallic Cavity for 5G Millimeter Wave Communication", <i>2021 IEEE International Symposium on Radio-Frequency Integration Technology (RFIT)</i> , Virtual, Hualien, Taiwan, 25-27 August 2021, (ISBN: 9781665433914,9781665433921).  |
|                                | # <u>YANG Ye</u> , # <u>PAN Yufei</u> , <u>CHAN Wing Shing</u> , <u>YANG Zhenxing</u> , <u>ZHENG Shaoyong</u> , "A Wideband 3 x 3 Nolen Matrix with Flat Phase Differences", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Live & Virtual, Shenzhen, China, 11-13 October 2021, pp 28-30, (ISBN: 9781665432436,9781665432443).   |
| <b>QI Chu</b>                  | <u>SHARMA Abhishek</u> , # <u>QI Chu</u> , # <u>OYESINA Kayode Adedotun</u> , <u>WONG Man Hon Alex</u> , "Coarsely Discretized Huygens' Metasurface: Manipulating EM Waves with Simplicity", <i>Proceedings of IEEE CONECCT 2021 - 7th International Conference on Electronics, Computing and Communication Technologies</i> , Virtual, India, 09-11 July 2021, (ISBN: 9781665428491,9781665428507).  |
|                                | # <u>QI Chu</u> , <u>WONG Man Hon Alex</u> , "Aggressively Discretized Huygens' Metasurface: Realizing Efficient Anomalous Refraction with a Simple Design", <i>2021 Fifteenth International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials)</i> , Virtual, New York, United States, 20-25 September 2021, pp 350-352, (ISBN: 978-1-7281-5018-5).   |
| <b>QIN Tiexin</b>              | # <u>QIN Tiexin</u> , <u>WANG Shiqi</u> , <u>LI Haoliang</u> , "Generalizing to Evolving Domains with Latent Structure-Aware Sequential Autoencoder", <i>Proceedings of the 39th International Conference on Machine Learning</i> , PMLR 162:18062-18082, 2022, pp 18062--18082.  |
| <b>SHAHID Ali Raza</b>         | <u>ALI Noman</u> , <u>ABUBAKR Muhammad</u> , <u>SHAIKH Muhammad Bilal</u> , # <u>SHAHID Ali Raza</u> , <u>POON Wayne</u> , <u>QURESHI Rizwan</u> , "A Convolutional Neural Network-based Framework for the Assessment of Human Muscles", <i>Proceedings - 2021 IEEE 4th International Conference on Computing and Information Sciences - IEEE ICCIS 2021</i> , Karachi, Pakistan, 29-30 November 2021, (ISBN: 978-1-6654-9442-7,9781665494410). |
|                                | <u>BASIT Syed Abdullah</u> , <u>QURESHI Rizwan</u> , # <u>SHAHID Ali Raza</u> , <u>KHAN Sheheryar</u> , "Survival prediction of lung cancer patients by integration of clinical and molecular features using machine learning", <i>2021 15th International Conference on Open Source Systems and Technologies (ICOSST) - PROCEEDINGS</i> , Lahore, Pakistan, 15-16 December 2021, (ISBN: 9781665413053,9781665413060).                          |
|                                | # <u>FAN Xinqi</u> , # <u>SHAHID Ali Raza</u> , <u>YAN Hong</u> , "Facial Micro-Expression Generation based on Deep Motion Retargeting and Transfer Learning", <i>MM' 21 - Proceedings of the 29th ACM International Conference on Multimedia</i> , Virtual, China, 20-24 October 2021, pp 4735-4739, (ISBN: 978-1-4503-8651-7).  |
| <b>SHANG Jiayu</b>             | # <u>SHANG Jiayu</u> , <u>JIANG Jinzhe</u> , <u>SUN Yanni</u> , "Bacteriophage classification for assembled contigs using Graph Convolutional Network", <i>ISMB/ECCB 2021 Proceedings</i> , Virtual, 25-30 July 2021, pp i25-i33.   |
| <b>SU Zhili</b>                | # <u>SU Zhili</u> , <u>LU Kai</u> , <u>LEUNG Kwok Wa</u> , "A Simple Wide-beam Element for Wide-Angle Scanning Phased Array", <i>2021 IEEE Conference on Antenna Measurements &amp; Applications (CAMA)</i> , Antibes Juan-les-Pins, France, 15-17 November 2021, pp 254-256, (ISBN: 978-1-7281-9698-5,9781728196978).  |
| <b>SUN Guanghua</b>            | # <u>SUN Guanghua</u> , <u>WONG Hang</u> , "A Wideband C-shaped Open Slot Array for Millimeter-wave Applications", <i>2022 Photonics and Electromagnetics Research Symposium (PIERS)</i> , hybrid, Hangzhou, China, 25-27 April 2022, pp 818-821, (ISBN: 978-1-6654-6024-8,9781665460231).  |
|                                | # <u>SUN Guanghua</u> , <u>WONG Hang</u> , "A Wideband Millimeter-Wave Magneto-Electric Dipole Array with Pillbox-Distributed Network", <i>2021 International Symposium on Antennas</i>   |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | <p><i>and Propagation (ISAP)</i>, Taipei, Taiwan, 19-22 October 2021, (ISBN: 9781665431132,9789868478718).</p> <p><u>WONG Hang</u>, #<u>SUN Guanghua</u>, "Development of Pillbox-Distributed-Fed Antenna Arrays for Millimeter-Wave Applications: (Invited)", <i>2021 International Conference on Microwave and Millimeter Wave Technology (ICMMT 2021) - Proceedings</i>, Nanjing International Youth Convention Hotel, Nanjing, China, 23-26 May 2021, (ISBN: 9781665434379,9781665434386).</p>   |
| <b>WANG Hao</b>       | <p>#<u>WEI Yang</u>, #<u>LIU Yucheng</u>, <u>TSANG Kim Fung</u>, #<u>WANG Hao</u>, "Modeling of IEEE 1451-Standardized Low Power Wide Area Networks", <i>Proceedings - 2021 IEEE 19th International Conference on Industrial Informatics (INDIN)</i>, Universitat de les Illes Balears, Virtual, Mallorca, Spain, 21-23 July 2021, (ISBN: 9781728143958,9781728143965).</p> <p>MAK S. L., WU M. Y.T., TANG W. F., LI C H, #<u>WANG Hao</u>, <u>TSANG Kim Fung</u>, "A Study on Safety of Pet Food Products", <i>2021 IEEE International Symposium on Product Compliance Engineering - Asia (ISPCE-ASIA)</i>, National Taiwan Normal University, Taipei, Taiwan, 30 November - 01 December 2021, (ISBN: 9781665443425,9781665443432).</p>   |
| <b>WANG Muting</b>    | <p>#<u>WANG Muting</u>, <u>PANG Stella W.</u>, "Effect of Plasma Treatment and Surface Coating on Cell Migration Dynamics", <i>The 65th International Conference on Electron, Ion, and Photon Beam Technology and Nanofabrication</i>, Sheraton New Orleans, New Orleans, United States, 31 May - 03 June 2022.</p>  |
| <b>WANG Xinyu</b>     | <p>#<u>WANG Xinyu</u>, CHENG Ge, WANG Zengfu, <u>ZUKERMAN Moshe</u>, "A research on submarine cable path planning", <i>Eighth Symposium on Novel Photoelectronic Detection Technology and Applications</i>, Kunming, China, 07-09 December 2021, (ISBN: 9781510653115,9781510653122).</p>  |
| <b>WEI Yang</b>       | <p>CHAN George, LEE Chi Chung, #<u>WEI Yang</u>, <u>TSANG Kim Fung</u>, "A Review of Compliance Design for Semiconductor Fabrication Equipment", <i>2021 IEEE International Symposium on Product Compliance Engineering - Asia (ISPCE-ASIA)</i>, National Taiwan Normal University, Taipei, Taiwan, 30 November - 01 December 2021, (ISBN: 978-1-6654-4343-2,9781665443425).</p> <p>#<u>WEI Yang</u>, #<u>LIU Yucheng</u>, <u>TSANG Kim Fung</u>, #<u>WANG Hao</u>, "Modeling of IEEE 1451-Standardized Low Power Wide Area Networks", <i>Proceedings - 2021 IEEE 19th International Conference on Industrial Informatics (INDIN)</i>, Universitat de les Illes Balears, Virtual, Mallorca, Spain, 21-23 July 2021, (ISBN: 9781728143958,9781728143965).</p>   |
| <b>WU Wuwei</b>       | <p>#<u>WU Wuwei</u>, CHEN Jianqi, CHEN Jie, "Stability Analysis of Systems with Recurrent Neural Network Controllers", <i>14th IFAC Workshop on Adaptive and Learning Control Systems ALCOS 2022 - PROCEEDINGS</i>, Ecole Nationale Supérieure d'Electricité et de Mécanique – ENSEM, Casablanca, Morocco, 29 June - 01 July 2022, pp 170-175.</p>   |
| <b>XIONG Jingjing</b> | <p>#<u>YU Wing Yin</u>, PO Lai Man, #<u>HAO Yuzhi</u>, #<u>XIONG Jingjing</u>, #<u>LAU Kin Wai</u>, "Spatial Content Alignment for Pose Transfer", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i>, Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 9781665411523,9781665438643).</p>  |
| <b>YAN Wen</b>        | <p>LI Yiwen, FU Yunguan, YANG Qianye, MIN Zhe, #<u>YAN Wen</u>, HUISMAN Henkjan, BARRATT Dean, PRISACARIU Victor Adrian, HU Yipeng, "FEW-SHOT Image Segmentation for Cross-Institution Male Pelvic Organs Using Registration-Assisted Prototypical Learning", <i>Proceedings of the 2022 IEEE 19th International Symposium on Biomedical Imaging (ISBI)</i>, IEEE Signal Processing Society and IEEE Engineering in Medicine and Biology Society (EMBS), ITC Royal Bengal (virtual), Kolkata, India, 28-31 March 2022, (ISBN: 978-1-6654-2924-5,9781665429238).</p> <p>MIN Zhe, BIANCO Fernando J., YANG Qianye, RODELL Rachael, #<u>YAN Wen</u>, BARRATT Dean, HU Yipeng, "Controlling False Positive/Negative Rates for Deep-Learning-Based Prostate Cancer Detection on Multiparametric MR Images", <i>Medical Image Understanding and Analysis - 25th Annual Conference, MIUA 2021, Oxford, United Kingdom, July 12-14, 2021, Proceedings</i>, University of Oxford (Virtual), Oxford, United Kingdom, 12-14 July 2021, pp 56-70, (ISBN: 9783030804312).</p> |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
| <b>YANG Chen</b>     | #CHEN Zhen, #ZHU Meilu, #YANG Chen, YUAN Yixuan, "Personalized Retrogress-Resilient Framework for Real-World Medical Federated Learning", <i>Medical Image Computing and Computer Assisted Intervention – MICCAI 2021 - 24th International Conference Strasbourg, France, September 27 – October 1, 2021 Proceedings, Part III</i> , Virtual, Strasbourg, France, 27 September - 01 October 2021, pp 347-356, (ISBN: 978-3-030-87198-7,978-3-030-87199-4). |
| <b>YANG Chenfeng</b> | #YANG Chenfeng, WU Gengbo, CHEN Baojie, CHAN Ka Fai, CHAN Chi Hou, "A Terahertz Metasurface for Frequency-Controlled Bessel Beam Steering", <i>2021 IEEE Conference on Antenna Measurements and Applications (CAMA)</i> , Antibes Juan-les-Pins, France, 15-17 November 2021, pp 388-390, (ISBN: 978-1-7281-9697-8).   |
| <b>YANG Jingwei</b>  | #ZHANG Yiwen, #ZHANG Ke, #YANG Jingwei, WANG Cheng, "Performance Analysis of Millimeter-Wave Optic Modulators in Thin-Film Lithium Niobate", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Live & Virtual, Shenzhen, China, 11-13 October 2021, pp 380-381, (ISBN: 9781665432436,9781665432443).  |
|                      | #YANG Jingwei, WANG Cheng, "Hybrid Thin-Film Lithium Niobate/Silicon Waveguide Scheme for Efficient Terahertz Generation", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Live & Virtual, Shenzhen, China, 11-13 October 2021, pp 382-383, (ISBN: 9781665432436,9781665432443).  |
|                      | #YANG Jingwei, WANG Cheng, "Efficient terahertz generation schemes in thin-film lithium niobate platform", <i>OSA Nonlinear Optics 2021</i> , United States, 09-13 August 2021, (ISBN: 978-1-943580-97-2).   |
| <b>YANG Qiushi</b>   | #LIU Xinyu, #LI Wuyang, #YANG Qiushi, LI Baopu, YUAN Yixuan, "Towards Robust Adaptive Object Detection under Noisy Annotations", <i>2022 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR 2022)</i> , Hybrid, New Orleans, United States, 19-24 June 2022, pp 14207-14216.   |
| <b>YANG Ye</b>       | #PAN Yufei, #YANG Ye, CHAN Wing Shing, "Design of Mechanically Reconfigurable Couplers Based on Cross-shape Metallic Cavity for 5G Millimeter Wave Communication", <i>2021 IEEE International Symposium on Radio-Frequency Integration Technology (RFIT)</i> , Virtual, Hualien, Taiwan, 25-27 August 2021, (ISBN: 9781665433914,9781665433921).   |
|                      | #YANG Ye, #PAN Yufei, CHAN Wing Shing, YANG Zhenxing, ZHENG Shaoyong, "A Wideband 3 x 3 Nolen Matrix with Flat Phase Differences", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Live & Virtual, Shenzhen, China, 11-13 October 2021, pp 28-30, (ISBN: 9781665432436,9781665432443).  |
| <b>YANG Yunshan</b>  | DAI Lin, ZHAN Wen, #YANG Yunshan, "On the Optimization of Outage Probability of Access Delay of MTDs in Cellular Networks for URLLC", <i>ICC 2021 - IEEE International Conference on Communications - Proceedings</i> , Virtual, Montreal, QC, Canada, 14-23 June 2021, (ISBN: 9781728171227,9781728171234).   |
| <b>YU Wing Yin</b>   | #ZHANG Yujia, PO Lai Man, XU Xuyuan, LIU Mengyang, WANG Yexin, #OU Weifeng, #ZHAO Yuzhi, #YU Wing Yin, "Contrastive Spatio-Temporal Pretext Learning for Self-supervised Video Representation", <i>Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'2022)</i> , Virtual Conference, 22 February - 01 March 2022, pp 3380-3389, (ISBN: 978-1-57735-876-3 ).   |
|                      | #YU Wing Yin, PO Lai Man, #ZHAO Yuzhi, #XIONG Jingjing, #LAU Kin Wai, "Spatial Content Alignment for Pose Transfer", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i> , Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 9781665411523,9781665438643).   |
| <b>ZHANG Ke</b>      | #FENG Hanke, #ZHANG Ke, SUN Wenzhao, REN Yangming, #ZHANG Yiwen, ZHANG Wenfu, WANG Cheng, "Highly linear integrated lithium niobate modulator based on ring-assisted Mach-Zehnder interferometer", <i>CLEO: Science and Innovations, S and I 2022</i> , San Jose, United States, 15-20 May 2022, (ISBN: 9781557528209).  |
|                      | #ZHANG Yiwen, #ZHANG Ke, #YANG Jingwei, WANG Cheng, "Performance Analysis of Millimeter-Wave Optic Modulators in Thin-Film Lithium Niobate", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Live & Virtual, Shenzhen, China, 11-13 October 2021, pp 380-381, (ISBN: 9781665432436,9781665432443).  |

Section A: Publications of PhD Students

|   |  |
|---|--|
|   | #CHEN Zhaoxi, XU Qing, #ZHANG Ke, WONG Wing Han Polis, ZHANG De Long, PUN Yue Bun Edwin, WANG Cheng, "Efficient optical amplification in erbium-doped lithium niobate on insulator waveguides", <i>26th Optoelectronics and Communications Conference</i> , Virtual, Hong Kong, 03-07 July 2021, (ISBN: 978-1-943580-92-7).  |
| ZHANG Ming  | #ZHANG Ming, ZHE Xuefei, OU-YANG Le, CHEN Shifeng, YAN Hong, "Semantic Hierarchy Preserving Deep Hashing for Large-Scale Image Retrieval", <i>Proceedings of MVA 2021 - 17th International Conference on Machine Vision Applications</i> , Online, Nagoya, Japan, 25-27 July 2021, (ISBN: 978-1-6654-4774-4,978-4-901122-20-7).  |
| ZHANG Yiwen   | #FENG Hanke, #ZHANG Ke, SUN Wenzhao, REN Yangming, #ZHANG Yiwen, ZHANG Wenfu, WANG Cheng, "Highly linear integrated lithium niobate modulator based on ring-assisted Mach-Zehnder interferometer", <i>CLEO: Science and Innovations, S and I 2022</i> , San Jose, United States, 15-20 May 2022, (ISBN: 9781557528209).<br>#ZHANG Yiwen, #ZHANG Ke, #YANG Jingwei, WANG Cheng, "Performance Analysis of Millimeter-Wave Optic Modulators in Thin-Film Lithium Niobate", <i>Proceedings of the 2021 Cross Strait Radio Science and Wireless Technology Conference</i> , Live & Virtual, Shenzhen, China, 11-13 October 2021, pp 380-381, (ISBN: 9781665432436,9781665432443).   |
| ZHANG Yujia   | #ZHANG Yujia, PO Lai Man, XU Xuyuan, LIU Mengyang, WANG Yexin, #OU Weifeng, #ZHAO Yuzhi, #YU Wing Yin, "Contrastive Spatio-Temporal Pretext Learning for Self-supervised Video Representation", <i>Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'2022)</i> , Virtual Conference, 22 February - 01 March 2022, pp 3380-3389, (ISBN: 978-1-57735-876-3 ).   |
| ZHAO Yuzhi  | LIU Kangcheng, #ZHAO Yuzhi, GAO Zhi, CHEN Ben M., "WeakLabel3D-Net: A Complete Framework for Real-Scene LiDAR Point Clouds Weakly Supervised Multi-Tasks Understanding", <i>2022 IEEE International Conference on Robotics and Automation (ICRA)</i> , 23 May 2022.<br>#ZHANG Yujia, PO Lai Man, XU Xuyuan, LIU Mengyang, WANG Yexin, #OU Weifeng, #ZHAO Yuzhi, #YU Wing Yin, "Contrastive Spatio-Temporal Pretext Learning for Self-supervised Video Representation", <i>Proceedings of the 36th AAAI Conference on Artificial Intelligence (AAAI'2022)</i> , Virtual Conference, 22 February - 01 March 2022, pp 3380-3389, (ISBN: 978-1-57735-876-3 ).<br>#YU Wing Yin, PO Lai Man, #ZHAO Yuzhi, #XIONG Jingjing, #LAU Kin Wai, "Spatial Content Alignment for Pose Transfer", <i>2021 IEEE International Conference on Multimedia and Expo (ICME)</i> , Virtual, Shenzhen, China, 05-09 July 2021, (ISBN: 9781665411523,9781665438643).<br>WANG Xuehui, ZHAO Qingyun, FAN Lei, #ZHAO Yuzhi, WANG Tiantian, YAN Qiong, CHEN Long, "SEMASUPERPIXEL: A MULTI-CHANNEL PROBABILITY-DRIVEN SUPERPIXEL SEGMENTATION METHOD", <i>2021 IEEE International Conference on Image Processing - Proceedings</i> , Dena'ina Civic and Convention Center, Anchorage, United States, 19-22 September 2021, pp 1859-1863, (ISBN: 9781665431026,9781665441155). |
| <b>Patents, agreements, assignments and companies</b> |  |
| GARAJ Martin  | CHUNG Shu Hung Henry, #GARAJ Martin, #HONG Yiwen, System And Method for Determining A State of Photovoltaic Panel, Patent No.: US11,283,401, United States, 22 March 2022.   |
| HONG Yiwen  | CHUNG Shu Hung Henry, #GARAJ Martin, #HONG Yiwen, System And Method for Determining A State of Photovoltaic Panel, Patent No.: US11,283,401, United States, 22 March 2022.   |
| HUANG Ruixuan   | CHAN Kei Hang Katie, #HUANG Ruixuan, #LIU Jundong, #WAN Tsz Kin, WOO Yat Ming Peter, METHOD AND SYSTEM FOR MACHINE LEARNING AND DEEP LEARNING BASED ASSESSMENT OF STROKE, Patent No.: HK30057394, Hong Kong, 08 April 2022.  |
| IRFAN Muhammad  | #IRFAN Muhammad, CHEUNG Chak Chung Ray, ULLAH Zahid, An Electronic Memory Device And A Method of Manipulating The Electronic Memory Device, Patent No.: US11,120,874, United States, 14 September 2021.  |

Section A: Publications of PhD Students

|                                 |  |
|---------------------------------|--|
| <b>LAI Chun Tak</b>             | #LAI Chun Tak, CHAN Yau Chung, #YEUNG Shun Cheung, CHUNG Shu Hung Henry, TSE Chung Fai Norman, 溫度調節系統和功率調節裝置, Patent No.: ZL201780085301.0, China, 25 March 2022.  |
|                                 | #LAI Chun Tak, CHAN Yau Chung, #YEUNG Shun Cheung, CHUNG Shu Hung Henry, TSE Chung Fai Norman, 恆溫器設備和溫度調節系統, Patent No.: ZL201680092026.0, China, 14 December 2021.  |
|                                 | #LAI Chun Tak, CHAN Yau Chung, #YEUNG Shun Cheung, CHUNG Shu Hung Henry, TSE Chung Fai Norman, 恆溫器設備和溫度調節系統, Patent No.: ZL201680091970.4, China, 13 August 2021.  |
| <b>LIU Qi</b>                   | CHAN Ho Man, #LIU Qi, SHE Qi, PALMERSTON and JEREMIAH B., "System and Method for Rendering An Image", Licensing Agreement with Edutech, Hong Kong, 31 May 2022.  |
| <b>WAN Tsz Kin</b>              | CHAN Kei Hang Katie, #HUANG Ruixuan, #LIU Jundong, #WAN Tsz Kin, WOO Yat Ming Peter, METHOD AND SYSTEM FOR MACHINE LEARNING AND DEEP LEARNING BASED ASSESSMENT OF STROKE, Patent No.: HK30057394, Hong Kong, 08 April 2022.              |
| <b>WANG Manting</b>             | CHAN Chi Hou, #WANG Manting, Substrate Integrated Waveguide Fed Antenna, Patent No.: US11,271,322, United States, 08 March 2022.   |
| <b>WANG Xinyu</b>               | ZUKERMAN Moshe, WANG Zengfu, LEUNG Fu Chu, MORAN William, TAHCHI Elias, WANG Qing, #WANG Xinyu, Infrastrucure Link Path Arrangement Determination Method And System, Patent No.: US11,228,523, United States, 08 January 2022.           |
| <b>YEUNG Shun Cheung</b>        | #LAI Chun Tak, CHAN Yau Chung, #YEUNG Shun Cheung, CHUNG Shu Hung Henry, TSE Chung Fai Norman, 溫度調節系統和功率調節裝置, Patent No.: ZL201780085301.0, China, 25 March 2022.  |
|                                 | #LAI Chun Tak, CHAN Yau Chung, #YEUNG Shun Cheung, CHUNG Shu Hung Henry, TSE Chung Fai Norman, 恆溫器設備和溫度調節系統, Patent No.: ZL201680092026.0, China, 14 December 2021.  |
|                                 | #LAI Chun Tak, CHAN Yau Chung, #YEUNG Shun Cheung, CHUNG Shu Hung Henry, TSE Chung Fai Norman, 恆溫器設備和溫度調節系統, Patent No.: ZL201680091970.4, China, 13 August 2021.  |
| <b>All other outputs</b>        |  |
| <b>ADEGOKE Muideen Adeniyi</b>  | #ADEGOKE Muideen Adeniyi, <i>Learning Algorithms and Some Neural Network Models Under Imperfect Implementations</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 14 September 2021. |
| <b>AGADAGBA Stephen Kugbere</b> | #AGADAGBA Stephen Kugbere, <i>Neuromodulation of Electrographic Response under Transcorneal Electrical Stimulation</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 April 2022.  |
| <b>BEGUM Habiba</b>             | #BEGUM Habiba, <i>Piezoelectric Micromechanical Resonant Sensors for Mass Sensing in Liquid Phase Applications</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 06 May 2022.        |
| <b>CAO Jianfeng</b>             | #CAO Jianfeng, <i>Morphological Segmentation and Analysis of Caenorhabditis elegans Embryo Based on Deep Learning</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| <b>CHEN Zhaoxi</b>              | #CHEN Zhaoxi, <i>Studies of Functional Photonic Devices Based on Lithium Niobate on Insulator</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 April 2022.                       |
| <b>CHEN Zhen</b>                | #CHEN Zhen, <i>Towards Intelligent Medical Image Diagnosis: Exploration on Imperfect Data</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 18 February 2022.                        |
| <b>CHENG Chun Sing</b>          | #CHENG Chun Sing, <i>Modeling and Parameter Extraction of Batteries</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 14 April 2022.   |
| <b>CHOWDHURY Mehdi Hasan</b>    | #CHOWDHURY Mehdi Hasan, <i>Reconfigurable Architectures for Electrophysiological Signal Processing</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 09 August 2021.                 |

Section A: Publications of PhD Students

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|---|--|
| <b>DAI Xin</b>                                    | # <a href="#">DAI Xin</a> , <i>Wideband Substrate Integrated Magneto-Electric Dipole Antenna Arrays</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 19 August 2021.  |
| <b>DONG Jiaxin</b>                                | # <a href="#">DONG Jiaxin</a> , <i>Diverse Dynamical Switching in Semiconductor Lasers with Long External Cavity Feedback</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 10 December 2021.  |
| <b>DUAN Qiyou</b>                                 | # <a href="#">DUAN Qiyou</a> , <i>Structured Random Ensembles Learning for Signal Reconstruction: from Theory to Application</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 07 September 2021.  |
| <b>ELDALY Abdelrahman Bakr Mohammed Abdelnaby</b> | # <a href="#">ELDALY Abdelrahman Bakr Mohammed Abdelnaby</a> , <a href="#">CHAN L H Leanne</a> , Third-prize Winner, The 8th Hong Kong University Student Innovation and Entrepreneurship Competition, Brain Signal Processing and Classification for Depth of Anesthesia, The 8th Hong Kong University Student Innovation and Entrepreneurship Competition, HKNCGA Innovation & Entrepreneurship Centre, 02 June 2022.  |
| <b>FAN Xinqi</b>                                  | <a href="#">YAN Hong</a> , # <a href="#">FAN Xinqi</a> , Silver Medal at 2022 Inventions Geneva Evaluation Days, The project "AI-based Face Mask Detection to Assist in the Control of the COVID-19 Pandemic" received the Silver Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022. |
| <b>GAO Liang</b>                                  | # <a href="#">GAO Liang</a> , <a href="#">CHAN Chi Hou</a> , The First Prize of Microwave Theory and Techniques Student Paper Award in The 22nd IEEE (HK) AP/MTT Postgraduate Conference, 22nd IEEE (HK) AP/MTT Postgraduate Conference, IEEE Hong Kong Section, Hong Kong, 20 November 2021.  |
| <b>GARAJ Martin</b>                               | # <a href="#">GARAJ Martin</a> , <i>Research on Diagnostics of Degraded Photovoltaic Devices</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 01 April 2022.  |
| <b>HAN Zeyu</b>                                   | # <a href="#">HAN Zeyu</a> , <i>Consensus of Nonlinear Multi-Agent Systems under a Directed Network and Its Applications</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 November 2021.   |
| <b>HE Yaqing</b>                                  | # <a href="#">HE Yaqing</a> , <i>Electromagnetic Radiation on Human Health: Analysis, Dosimetry Study, Machine Learning and Performance Index</i> , PhD Thesis, Department of Electrical Engineering, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 05 January 2022.   |
| <b>HUANG Weipei</b>                               | # <a href="#">HUANG Weipei</a> , <i>Efficient Application-specific Hardware Architecture for Dense Tensor Computation</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 10 December 2021.  |
| <b>IRFAN Muhammad</b>                             | # <a href="#">IRFAN Muhammad</a> , <i>Novel Design, Architecture, and Optimization of Content Addressable Memory (CAM)</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.   |
| <b>JI Zhuoqiao</b>                                | # <a href="#">JI Zhuoqiao</a> , <i>Wideband Circularly Polarized Antennas with Broadside and End-Fire Radiations</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 26 November 2021.   |
| <b>KREMER Hauke Ingolf</b>                        | # <a href="#">KREMER Hauke Ingolf</a> , <i>Design of Dielectric Resonator Antennas with Dielectric Paste</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 20 August 2021.   |
| <b>LIU Xiyao</b>                                  | # <a href="#">LIU Xiyao</a> , <i>Reconfigurable Dielectric Resonator Antennas for Wireless Communications</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.  |
| <b>LU Wenhao</b>                                  | # <a href="#">LU Wenhao</a> , <i>Analysis of Recurrent Neural Networks under Imperfect Conditions</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 10 January 2022.   |
| <b>MOSTAFA Salwa Said Hamed</b>                   | # <a href="#">MOSTAFA Salwa Said Hamed</a> , <i>Resource Optimization for Caching, Computing, and Communications in Fog Radio Access Networks</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 10 June 2022.  |

Section A: Publications of PhD Students

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| <b>OU Weifeng</b>                                      | #OU Weifeng, <i>Data-driven Discriminative Feature Learning for Biometric Vein Recognition and Face Recognition</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.  |
| <b>PALMERSTON Jeremiah Bradley</b>                     | #PALMERSTON Jeremiah Bradley, <i>Network Modelling and Functional Graph Structure of the Primary Visual Cortex</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 September 2021.  |
| <b>PAN Yufei</b>                                       | #PAN Yufei, <i>Design of Highly Reconfigurable Couplers</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 30 March 2022.   |
| <b>QIAN Jingui</b>                                     | #QIAN Jingui, <i>Two-chip Acoustofluidics: From Manipulation of Microparticles to Integration with Micromechanical Sensing</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.   |
| <b>SANKA Abdurrashid Ibrahim</b>                       | #SANKA Abdurrashid Ibrahim, <i>Scalability Methods for Blockchain Systems</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 07 January 2022.   |
| <b>SHAHID Ali Raza</b>                                 | #SHAHID Ali Raza, <i>Machine Learning Techniques in Human Facial Expression and Action Recognition</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 13 May 2022.  |
| <b>SHEN Ruihua</b>                                     | #SHEN Ruihua, <i>Control of Nonlinear Output Inductor Time Constant and Its Applications in DC Distribution Networks</i> , PhD Thesis, Department of Electrical Engineering, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 2022.   |
| <b>SHI Zhanglei</b>                                    | #SHI Zhanglei, <i>Neural Network Based Methods for Constrained Optimization</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 16 September 2021.   |
| <b>SUN Guanghua</b>                                    | #SUN Guanghua, <i>Design of High-performance Planar Antenna Arrays for Millimeter-wave Applications</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 20 August 2021.  |
| <b>WONG Hiu Tung</b>                                   | #WONG Hiu Tung, <i>Theoretical Analysis of Multi-Bit Quanta Image Sensors and Node Selection in Fault-Tolerant Neural Network</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 April 2022.   |
| <b>WU Wuwei</b>  | #WU Wuwei, CHEN Jianqi, CHEN Jie, Finalist, Young Author Award, For the paper "Stability Analysis of Systems with Recurrent Neural Network Controller," presented at the 14th IFAC Workshop on Adaptive and Learning Control Systems, for the best paper award at the event. , International Federation of Automatic Control, June 2022.   |
| <b>XIONG Jingjing</b>                                  | #XIONG Jingjing, <i>Semantic Segmentation Based on Deep Neural Networks</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 10 March 2022.   |
| <b>ZHANG Ming</b>                                      | #ZHANG Ming, <i>Deep Networks for Face Recognition and Retrieval Based on Learning Eigen-Filters and Binary Code Representations</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 14 September 2021.  |
| <b>ZHANG Yujia</b>                                     | #ZHANG Yujia, <i>Video Human Action Recognition Based on Deep Learning</i> , PhD Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 22 April 2022.  |
| <b>DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING</b> |  |
| <b>Scholarly books, monographs and chapters</b>        |  |
| <b>VASKURI Chandra Sekhara Theja</b>                   | #VASKURI Chandra Sekhara Theja, KARTHIKEYAN Vaithinathan, MUSAH Jamal-Deen, WU Lawrence, VELLAISAMY Arul Lenus Roy, "Thermoelectric properties of sulfide and selenide-based materials", <i>Sulfide and Selenide Based Materials for Emerging Applications - Sustainable Energy harvesting and Storage Technology</i> , Chakraborty Amit Kumar, Dalapati Goutam Kumar, Kundu Subrata, Wong Terence Kin Shun and Zhuk Sjarhei (eds), Elsevier, ISBN: 9780323998604,9780323998826, 24 June 2022, pp 293-327. |
| <b>ZHU Qi</b>  | #ZHU Qi, WANG Feng, "Upconversion nanophosphors for photonic application", <i>Phosphor Handbook - Novel Phosphors, Synthesis, and Applications</i> , Edition 3rd, Liu Ru-Shi and Wang Xiao-Jun (eds), CRC Press, ISBN:   |



Section A: Publications of PhD Students

|                                  |   |
|----------------------------------|---|
|                                  | 9780367555146,9781000513349,9781003098676,9781032159683, Boca Raton, FL, 31 January 2022, pp 285-304.   |
| <b>Journal publications</b>      |   |
| <b>ADESINA Ayotunde Emmanuel</b> | KAMRUZZAMAN M., <u>ZAPIEN Juan Antonio</u> , AFROSE R, ANAM T. K., RAHMAN M., LITON M. N.H., HELAL M. A., KHAN M. K. R., #ADESINA Ayotunde Emmanuel, "A comparative study of Ag doping effects on the electronic, optical, carrier conversion, photocatalytic and electrical properties of MoS <sub>2</sub> ", <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 273, 16 September 2021, doi: <a href="https://doi.org/10.1016/j.mseb.2021.115442">https://doi.org/10.1016/j.mseb.2021.115442</a> . |
|                                  | EGBO Kingsley Onyekachi, #ADESINA Ayotunde Emmanuel, #EZEH Chioma Vivian, LIU Chaoping, <u>YU Kin Man</u> , "Effects of free carriers on the optical properties of high mobility transition metal doped In <sub>2</sub> O <sub>3</sub> transparent conductors", <i>Physical Review Materials</i> , 5(9), 17 September 2021, doi: <a href="https://doi.org/10.1103/PhysRevMaterials.5.094603">https://doi.org/10.1103/PhysRevMaterials.5.094603</a> .  |
| <b>ARAVA Clementmanohar</b>      | <u>XIAO Yelan</u> , <u>CHENG Shun Cheung</u> , #FENG Yongyi, SHI Zhen, HUANG Zhenjia, TSUI Gary, #ARAVA Clementmanohar, VELLAISAMY Arul Lenus Roy, <u>KO Chi Chiu Vincent</u> , "Photoredox Catalysis for the Fabrication of Water-Repellent Surfaces with Application for Oil/Water Separation", <i>Langmuir</i> , 37(39), 24 September 2021, pp 11592-11602, doi: <a href="https://doi.org/10.1021/acs.langmuir.1c01926">https://doi.org/10.1021/acs.langmuir.1c01926</a> .   |
| <b>BU Shuyu</b>                  | <u>JIANG Hao</u> , #BU Shuyu, #GAO Qili, LONG Jun, WANG Pengfei, <u>LEE Chun Sing</u> , <u>ZHANG Wenjun</u> , "Ultrathin two-dimensional nickel-organic framework nanosheets for efficient electrocatalytic urea oxidation", <i>Materials Today Energy</i> , 27, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.mtener.2022.101024">https://doi.org/10.1016/j.mtener.2022.101024</a> .  |
|                                  | #KONG Xin, LIU Guiyang, PENG Hui-Qing, <u>XU Zian</u> , #BU Shuyu, LIU Bin, <u>ZHANG Wenjun</u> , "Plasma-induced transformation: a new strategy to in situ engineer MOF-derived heterointerface for high-efficiency electrochemical hydrogen evolution", <i>Journal of Materials Chemistry A</i> , 10(12), 02 February 2022, pp 6596-6606, doi: <a href="https://doi.org/10.1039/d1ta10502g">https://doi.org/10.1039/d1ta10502g</a> .  |
| <b>CHAN Yau Kwan</b>             | #LIU Linlin, <u>LIANG Xiongyi</u> , QIU Guangyu, #GUO Chen, #CHAN Yau Kwan, <u>WU Lawrence</u> , "Self-Assembly Silver Nanoparticles Decorated on Gold Nanolands for Label-Free Localized Surface Plasmon Resonance Biosensing", <i>Advanced Materials Interfaces</i> , 9(15), 10 April 2022, doi: <a href="https://doi.org/10.1002/admi.202200339">https://doi.org/10.1002/admi.202200339</a> .  |
| <b>CHEN Ao</b>                   | <u>YANG Qi</u> , QU Xiaofeng, #CUI Huilin, HE Xincheng, SHAO Yuan, ZHANG Yong, #GUO Xun, #CHEN Ao, #CHEN Ze, #ZHANG Rong, KONG Duanyang, SHI Zhicong, LIU Jun, QIU Jieshan, <u>ZHI Chunyi</u> , "Rechargeable Aqueous Mn Metal Battery Enabled by Inorganic-Organic Interfaces", <i>Angewandte Chemie (International Edition)</i> , 02 June 2022, doi: <a href="https://doi.org/10.1002/anie.202206471">https://doi.org/10.1002/anie.202206471</a> .  |
|                                  | #LI Qing, #CHEN Ao, WANG Donghong, #ZHAO Yuwei, WANG Xiaoqi, JIN Xu, XIONG Bo, <u>ZHI Chunyi</u> , "Tailoring the metal electrode morphology via electrochemical protocol optimization for long-lasting aqueous zinc batteries", <i>Nature Communications</i> , 13, 27 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31461-7">https://doi.org/10.1038/s41467-022-31461-7</a> .  |
|                                  | <u>LIANG Guojin</u> , #ZHU Jiexiong, #CHEN Ao, YANG Qi, <u>ZHI Chunyi</u> , "Adhesive and cohesive force matters in deformable batteries", <i>npj Flexible Electronics</i> , 5, 28 September 2021, doi: <a href="https://doi.org/10.1038/s41528-021-00124-w">https://doi.org/10.1038/s41528-021-00124-w</a> .   |
|                                  | #CHEN Ze, #LI Chuan, YANG Qi, WANG Donghong, #LI Xinliang, #HUANG Zhaodong, <u>LIANG Guojin</u> , #CHEN Ao, <u>ZHI Chunyi</u> , "Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries", <i>Advanced Materials</i> , 33(51), 06 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105426">https://doi.org/10.1002/adma.202105426</a> .  |
|                                  | #CHEN Ze, <u>YANG Qi</u> , WANG Donghong, #CHEN Ao, #LI Xinliang, #HUANG Zhaodong, <u>LIANG Guojin</u> , WANG Ying, <u>ZHI Chunyi</u> , "Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism", <i>ACS Nano</i> , 16(4), 31 March 2022, pp 5349–5357, doi: <a href="https://doi.org/10.1021/acsnano.1c07939">https://doi.org/10.1021/acsnano.1c07939</a> .   |
|                                  | #CUI Huilin, #WANG Tairan, #HUANG Zhaodong, <u>LIANG Guojin</u> , #CHEN Ze, #CHEN Ao, <u>WANG Donghong</u> , YANG Qi, #HONG Hu, <u>FAN Jun</u> , <u>ZHI Chunyi</u> , "High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation", <i>Angewandte Chemie - International Edition</i> , 61(30), 09 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203453">https://doi.org/10.1002/anie.202203453</a> .   |

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|-------------------|---|
|                   | <p>#<a href="#">HOU Yue</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LI Pei</a>, #<a href="#">WANG Yanbo</a>, #<a href="#">ZHI Chunyi</a>, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i>, 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a>.</p> <p><a href="#">LIANG Guojin</a>, #<a href="#">ZHU Jiexiong</a>, #<a href="#">YAN Boxun</a>, #<a href="#">LI Qing</a>, #<a href="#">CHEN Ao</a>, #<a href="#">CHEN Ze</a>, #<a href="#">WANG Xiaoqi</a>, #<a href="#">XIONG Bo</a>, #<a href="#">FAN Jun</a>, #<a href="#">XU Jin</a>, #<a href="#">ZHI Chunyi</a>, "Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry", <i>Energy &amp; Environmental Science</i>, 15(3), 03 February 2022, pp 1086–1096, doi: <a href="https://doi.org/10.1039/d1ee03749h">https://doi.org/10.1039/d1ee03749h</a>.</p> <p>#<a href="#">HUANG Zhaodong</a>, #<a href="#">WANG Tairan</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CUI Huilin</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">YANG Qi</a>, #<a href="#">CHEN Ze</a>, #<a href="#">CHEN Ao</a>, #<a href="#">GUO Ying</a>, #<a href="#">FAN Jun</a>, #<a href="#">ZHI Chunyi</a>, "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i>, 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a>.</p> <p>#<a href="#">WANG Yanbo</a>, #<a href="#">YANG Qi</a>, #<a href="#">GUO Xun</a>, #<a href="#">YANG Shuo</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">ZHI Chunyi</a>, "Strategies of binder design for high-performance lithium-ion batteries: a mini review", <i>Rare Metals</i>, 41(3), 04 September 2021, pp 745–761, doi: <a href="https://doi.org/10.1007/s12598-021-01816-y">https://doi.org/10.1007/s12598-021-01816-y</a>.</p> <p>#<a href="#">ZHAO Yuwei</a>, #<a href="#">JIANG Feng</a>, #<a href="#">HONG Hu</a>, #<a href="#">WANG Donghong</a>, #<a href="#">LI Qing</a>, #<a href="#">MENG You</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">GUO Ying</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">ZHANG Rong</a>, #<a href="#">ZHANG Shaoce</a>, #<a href="#">HO Johnny Chung Yin</a>, #<a href="#">YAO Zhenpeng</a>, #<a href="#">LIU Weishu</a>, #<a href="#">ZHI Chunyi</a>, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i>, 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a>.</p> <p>#<a href="#">YANG Qi</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LI Chuan</a>, #<a href="#">ZOU Gangsheng</a>, #<a href="#">LI Hongfei</a>, #<a href="#">ZHI Chunyi</a>, "Categorizing wearable batteries: Unidirectional and omnidirectional deformable batteries", <i>Matter</i>, 4(10), 06 October 2021, pp 3146-3160, doi: <a href="https://doi.org/10.1016/j.matt.2021.07.016">https://doi.org/10.1016/j.matt.2021.07.016</a>.</p> <p>#<a href="#">LI Xinliang</a>, #<a href="#">WANG Yanlei</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Pei</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">YANG Qi</a>, #<a href="#">CHEN Ao</a>, #<a href="#">CUI Huilin</a>, #<a href="#">DONG Binbin</a>, #<a href="#">HE Hongyan</a>, #<a href="#">ZHI Chunyi</a>, "Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery", <i>Angewandte Chemie - International Edition</i>, 61(9), 21 December 2021, doi: <a href="https://doi.org/10.1002/anie.202113576">https://doi.org/10.1002/anie.202113576</a>.</p> |
| <b>CHEN Chang</b> | <p>#<a href="#">ZHAO Wenjun</a>, #<a href="#">QIN Jiangzhou</a>, #<a href="#">TENG Wei</a>, #<a href="#">MU Jincheng</a>, #<a href="#">CHEN Chang</a>, #<a href="#">KE Jun</a>, #<a href="#">HUANG Chih-Ching</a>, #<a href="#">LIU Baojun</a>, #<a href="#">WANG Shaobin</a>, "Catalytic photo-redox of simulated air into ammonia over bimetallic MOFs nanosheets with oxygen vacancies", <i>Applied Catalysis B: Environmental</i>, 305, 28 December 2021, doi: <a href="https://doi.org/10.1016/j.apcatb.2021.121046">https://doi.org/10.1016/j.apcatb.2021.121046</a>.</p>   |
| <b>CHEN Dong</b>  | <p>#<a href="#">CHEN Dong</a>, #<a href="#">ZHANG Shaoce</a>, #<a href="#">BU Xiuming</a>, #<a href="#">ZHANG Rong</a>, #<a href="#">QUAN Quan</a>, #<a href="#">LAI Zhengxun</a>, #<a href="#">WANG Wei</a>, #<a href="#">MENG You</a>, #<a href="#">YIN Di</a>, #<a href="#">YIP Sen Po</a>, #<a href="#">LIU Chuntai</a>, #<a href="#">ZHI Chunyi</a>, #<a href="#">HO Johnny Chung Yin</a>, "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i>, 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a>.</p> <p>#<a href="#">LAI Zhengxun</a>, #<a href="#">WANG Fei</a>, #<a href="#">MENG You</a>, #<a href="#">BU Xiuming</a>, #<a href="#">CHEN Dong</a>, #<a href="#">LI Dengji</a>, #<a href="#">WANG Wei</a>, #<a href="#">LIU Chuntai</a>, #<a href="#">YIP Sen Po</a>, #<a href="#">HO Johnny Chung Yin</a>, "Drop-Casting Halide Microcrystals Enabled by Green Glycol Solvent for High-Performance Photodetectors", <i>Advanced Photonics Research</i>, 29 May 2022, doi: <a href="https://doi.org/10.1002/adpr.202200041">https://doi.org/10.1002/adpr.202200041</a>.</p> <p>#<a href="#">ZHANG Rong</a>, #<a href="#">GUO Ying</a>, #<a href="#">ZHANG Shaoce</a>, #<a href="#">CHEN Dong</a>, #<a href="#">ZHAO Yuwei</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">MA Longtao</a>, #<a href="#">LI Pei</a>, #<a href="#">YANG Qi</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">ZHI Chunyi</a>, "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i>, 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a>.</p> <p>#<a href="#">QUAN Quan</a>, #<a href="#">BU Xiuming</a>, #<a href="#">CHEN Dong</a>, #<a href="#">WANG Fei</a>, #<a href="#">KANG Xiaolin</a>, #<a href="#">WANG Wei</a>, #<a href="#">MENG You</a>, #<a href="#">YIP SenPo</a>, #<a href="#">LIU Chuntai</a>, #<a href="#">HO Johnny Chung Yin</a>, "Sequential self-reconstruction of localized Mo species in hierarchical carbon/Co-Mo oxide heterostructures for boosting alkaline hydrogen evolution kinetics and durability", <i>Journal of Materials Chemistry A</i>, 15 December 2021, doi: <a href="https://doi.org/10.1039/d1ta09010k">https://doi.org/10.1039/d1ta09010k</a>.</p>  |

Section A: Publications of PhD Students

|                        |  |
|------------------------|--|
|                        | #WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS <sub>2</sub> Heterojunctions", <i>ACS Nano</i> , 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a> . |
| <b>CHEN Jiangkun</b>   | SUO Hao, #ZHU Qi, #ZHANG Xin, CHEN Bing, #CHEN Jiangkun, WANG Feng, "High-security anti-counterfeiting through upconversion luminescence", <i>Materials Today Physics</i> , 21, 08 September 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100520">https://doi.org/10.1016/j.mtphys.2021.100520</a> .  |
| <b>CHEN Peigang</b>    | #CHEN Peigang, LI Zhiyong, QI Yun, LO Tsz Wing, WANG Shubo, JIN Wei, WONG Kwok-Yin, FAN Shanhui, ZAYATS Anatoly V., LEI Dangyuan, "Long-Range Directional Routing and Spatial Selection of High-Spin-Purity Valley Trion Emission in Monolayer WS <sub>2</sub> ", <i>ACS Nano</i> , 15(11), 03 November 2021, pp 18163–18171, doi: <a href="https://doi.org/10.1021/acsnano.1c06955">https://doi.org/10.1021/acsnano.1c06955</a> .                     |
| <b>CHEN Wenyu</b>      | JIN Chengyan, DU Xinghao, #LI Wanpeng, #CHEN Wenyu, YAN Fei, SHI Chuanxin, #CHOU Tzu Hsiu, HUANG Chih-Ching, "Investigation on an anti-corrosion Cu-rich multiple-principal-element alloy strengthened and toughened by nano-scaled L1 <sub>2</sub> -type ordered particles", <i>International Journal of Materials Research</i> , 18 May 2022, doi: <a href="https://doi.org/10.1515/ijmr-2021-8677">https://doi.org/10.1515/ijmr-2021-8677</a> .     |
|                        | #CHEN Wenyu, #CHEN Yen Hsiang, #LI Wanpeng, #ZHOU Rui, #CHOU Tzu Hsiu, WANG Xu, HUANG Chih-Ching, "Passivation evolution of Ti-Ta-Nb medium-entropy sputtered thin films in sulfuric acid solution", <i>Applied Surface Science</i> , 576(B), 10 November 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151824">https://doi.org/10.1016/j.apsusc.2021.151824</a> .   |
|                        | ZHAO Zijun, #CHEN Wenyu, #LI Wanpeng, LIANG Xiaodong, YAN Hao, WANG Xu, HUANG Chih-Ching, WU Ming, "Effects of pre-oxidation conditions on microstructure evolution and hydrogen evolution reaction performance of nano-porous Ag", <i>Journal of Materials Research and Technology</i> , 15, 21 September 2021, pp 2221-2226, doi: <a href="https://doi.org/10.1016/j.jmrt.2021.09.062">https://doi.org/10.1016/j.jmrt.2021.09.062</a> .              |
| <b>CHEN Yen Hsiang</b> | ZHAO Zi J., #LI Wanpeng, #CHEN Yen Hsiang, LIU Xin Y., #CHOU Tzu Hsiu, WANG Xu, HUANG Chih-Ching, WU Ming, "Effect of high temperature oxidation on dealloying mechanism of Ag-Cu alloy", <i>Journal of Alloys and Compounds</i> , 896, 30 November 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.163007">https://doi.org/10.1016/j.jallcom.2021.163007</a> .   |
|                        | #CHEN Wenyu, #CHEN Yen Hsiang, #LI Wanpeng, #ZHOU Rui, #CHOU Tzu Hsiu, WANG Xu, HUANG Chih-Ching, "Passivation evolution of Ti-Ta-Nb medium-entropy sputtered thin films in sulfuric acid solution", <i>Applied Surface Science</i> , 576(B), 10 November 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151824">https://doi.org/10.1016/j.apsusc.2021.151824</a> .   |
| <b>CHEN Ze</b>         | YANG Qi, QU Xiaofeng, #CUI Huilin, HE Xincheng, SHAO Yuan, ZHANG Yong, #GUO Xun, #CHEN Ao, #CHEN Ze, #ZHANG Rong, KONG Duanyang, SHI Zhicong, LIU Jun, QIU Jieshan, ZHI Chunyi, "Rechargeable Aqueous Mn Metal Battery Enabled by Inorganic-Organic Interfaces", <i>Angewandte Chemie (International Edition)</i> , 02 June 2022, doi: <a href="https://doi.org/10.1002/anie.202206471">https://doi.org/10.1002/anie.202206471</a> .                   |
|                        | #LI Xinliang, #LI Qing, #HOU Yue, YANG Qi, #CHEN Ze, #HUANG Zhaodong, LIANG Guojin, #ZHAO Yuwei, MA Longtao, LI Mian, HUANG Qing, ZHI Chunyi, "Toward a Practical Zn Powder Anode: Ti <sub>3</sub> C <sub>2</sub> Tx MXene as a Lattice-Match Electrons/Ions Redistributor", <i>ACS Nano</i> , 15(9), 03 September 2021, pp 14631–14642, doi: <a href="https://doi.org/10.1021/acsnano.1c04354">https://doi.org/10.1021/acsnano.1c04354</a> .          |
|                        | #CHEN Ze, #LI Chuan, YANG Qi, WANG Donghong, #LI Xinliang, #HUANG Zhaodong, LIANG Guojin, #CHEN Ao, ZHI Chunyi, "Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries", <i>Advanced Materials</i> , 33(51), 06 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105426">https://doi.org/10.1002/adma.202105426</a> .   |
|                        | #CHEN Ze, YANG Qi, WANG Donghong, #CHEN Ao, #LI Xinliang, #HUANG Zhaodong, LIANG Guojin, WANG Ying, ZHI Chunyi, "Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism", <i>ACS Nano</i> , 16(4), 31 March 2022, pp 5349–5357, doi: <a href="https://doi.org/10.1021/acsnano.1c07939">https://doi.org/10.1021/acsnano.1c07939</a> .  |
|                        | WANG Donghong, #GUO Xun, #CHEN Ze, #ZHAO Yuwei, #LI Qing, ZHI Chunyi, "Ionic Liquid Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries", <i>ACS</i>  |

Section A: Publications of PhD Students

|                        |   |
|------------------------|---|
|                        | <p><i>Applied Materials &amp; Interfaces</i>, 14(23), 06 June 2022, pp 27287-27293, doi: <a href="https://doi.org/10.1021/acsami.2c06793">https://doi.org/10.1021/acsami.2c06793</a>.</p> <p>#<a href="#">CUI Huilin</a>, #<a href="#">WANG Tairan</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">CHEN Ze</a>, #<a href="#">CHEN Ao</a>, #<a href="#">WANG Donghong</a>, #<a href="#">YANG Qi</a>, #<a href="#">HONG Hu</a>, #<a href="#">FAN Jun</a>, #<a href="#">ZHI Chunyi</a>, "High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation", <i>Angewandte Chemie - International Edition</i>, 61(30), 09 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203453">https://doi.org/10.1002/anie.202203453</a>.</p> <p>#<a href="#">HOU Yue</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LI Pei</a>, #<a href="#">WANG Yanbo</a>, #<a href="#">ZHI Chunyi</a>, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i>, 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a>.</p> <p><a href="#">MA Longtao</a>, #<a href="#">YING Yiran</a>, #<a href="#">CHEN Shengmei</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Hongfei</a>, #<a href="#">HUANG Haitao</a>, #<a href="#">ZHAO Lingzhi</a>, #<a href="#">ZHI Chunyi</a>, "Electrocatalytic Selenium Redox Reaction for High-Mass-Loading Zinc-Selenium Batteries with Improved Kinetics and Selenium Utilization", <i>Advanced Energy Materials</i>, 26 May 2022, doi: <a href="https://doi.org/10.1002/aenm.202201322">https://doi.org/10.1002/aenm.202201322</a>.</p> <p>#<a href="#">LIANG Guojin</a>, #<a href="#">ZHU Jiaxiong</a>, #<a href="#">YAN Boxun</a>, #<a href="#">LI Qing</a>, #<a href="#">CHEN Ao</a>, #<a href="#">CHEN Ze</a>, #<a href="#">WANG Xiaoqi</a>, #<a href="#">XIONG Bo</a>, #<a href="#">FAN Jun</a>, #<a href="#">XU Jin</a>, #<a href="#">ZHI Chunyi</a>, "Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry", <i>Energy &amp; Environmental Science</i>, 15(3), 03 February 2022, pp 1086–1096, doi: <a href="https://doi.org/10.1039/d1ee03749h">https://doi.org/10.1039/d1ee03749h</a>.</p> <p>#<a href="#">YANG Qi</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ze</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">ZHI Chunyi</a>, "Cathode Engineering for High Energy Density Aqueous Zn Batteries", <i>Accounts of Materials Research</i>, 3(1), 17 November 2021, pp 78-88, doi: <a href="https://doi.org/10.1021/accountsmr.1c00199">https://doi.org/10.1021/accountsmr.1c00199</a>.</p> <p>#<a href="#">LI Xinliang</a>, #<a href="#">LI Mian</a>, #<a href="#">LUO Kan</a>, #<a href="#">HOU Yue</a>, #<a href="#">LI Pei</a>, #<a href="#">YANG Qi</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">CHEN Ze</a>, #<a href="#">DU Shiyu</a>, #<a href="#">HUANG Qing</a>, #<a href="#">ZHI Chunyi</a>, "Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti<sub>3</sub>C<sub>2</sub> MXenes", <i>ACS Nano</i>, 16(1), 28 December 2021, pp 813–822, doi: <a href="https://doi.org/10.1021/acs.nano.1c08358">https://doi.org/10.1021/acs.nano.1c08358</a>.</p> <p>#<a href="#">HUANG Zhaodong</a>, #<a href="#">WANG Tairan</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CUI Huilin</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">YANG Qi</a>, #<a href="#">CHEN Ze</a>, #<a href="#">CHEN Ao</a>, #<a href="#">GUO Ying</a>, #<a href="#">FAN Jun</a>, #<a href="#">ZHI Chunyi</a>, "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i>, 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a>.</p> <p>#<a href="#">YANG Qi</a>, #<a href="#">LI Liang</a>, #<a href="#">HUSSAIN Tanveer</a>, #<a href="#">WANG Donghong</a>, #<a href="#">HUI Lan</a>, #<a href="#">GUO Ying</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ze</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">LI Yongjun</a>, #<a href="#">XUE Yurui</a>, #<a href="#">ZUO Zicheng</a>, #<a href="#">QIU Jieshan</a>, #<a href="#">LI Yuliang</a>, #<a href="#">ZHI Chunyi</a>, "Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries", <i>Angewandte Chemie - International Edition</i>, 61(6), 19 November 2021, doi: <a href="https://doi.org/10.1002/anie.202112304">https://doi.org/10.1002/anie.202112304</a>.</p> <p>#<a href="#">LI Xinliang</a>, #<a href="#">WANG Yanlei</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Pei</a>, #<a href="#">LIANG Guojin</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">YANG Qi</a>, #<a href="#">CHEN Ao</a>, #<a href="#">CUI Huilin</a>, #<a href="#">DONG Binbin</a>, #<a href="#">HE Hongyan</a>, #<a href="#">ZHI Chunyi</a>, "Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery", <i>Angewandte Chemie - International Edition</i>, 61(9), 21 December 2021, doi: <a href="https://doi.org/10.1002/anie.202113576">https://doi.org/10.1002/anie.202113576</a>.</p> |
| <b>CHO Sandar Htet</b> | <p>#<a href="#">CHO Sandar Htet</a>, #<a href="#">NAYAK Sanjib</a>, #<a href="#">MANJÓN-SANZ Alicia</a>, #<a href="#">LIU J.</a>, #<a href="#">KONG Jing</a>, #<a href="#">SØRENSEN D. R.</a>, #<a href="#">MARLTON F.</a>, #<a href="#">JØRGENSEN M. R V.</a>, #<a href="#">PRAMANICK Abhijit</a>, "Atomic structural mechanism for ferroelectric-antiferroelectric transformation in perovskite NaNbO<sub>3</sub>", <i>Physical Review B</i>, 105(17), 01 May 2022, doi: <a href="https://doi.org/10.1103/PhysRevB.105.174113">https://doi.org/10.1103/PhysRevB.105.174113</a>.</p>   |
| <b>CHOU Tzu Hsiu</b>   | <p>#<a href="#">DU X. H.</a>, #<a href="#">GAI Y. H.</a>, #<a href="#">LI Wanpeng</a>, #<a href="#">CHOU Tzu Hsiu</a>, #<a href="#">HUANG Chih-Ching</a>, #<a href="#">SHI C. X.</a>, #<a href="#">DUAN G. S.</a>, #<a href="#">WU B. L.</a>, "Superb strengthening behavior in a precipitation strengthened Co-rich CoCrNiAlTi medium entropy alloy with acceptable ductility", <i>Intermetallics</i>, 146, 29 April 2022, doi: <a href="https://doi.org/10.1016/j.intermet.2022.107582">https://doi.org/10.1016/j.intermet.2022.107582</a>.</p> <p>#<a href="#">ZHAO Zi J.</a>, #<a href="#">LI Wanpeng</a>, #<a href="#">CHEN Yen Hsiang</a>, #<a href="#">LIU Xin Y.</a>, #<a href="#">CHOU Tzu Hsiu</a>, #<a href="#">WANG Xu</a>, #<a href="#">HUANG Chih-Ching</a>, #<a href="#">WU Ming</a>, "Effect of high temperature oxidation on dealloying mechanism of Ag-Cu alloy", <i>Journal of Alloys and Compounds</i>, 896, 30 November 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.163007">https://doi.org/10.1016/j.jallcom.2021.163007</a>.</p>  |

Section A: Publications of PhD Students

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|-----------------------|---|
|                       | <p>#HUANG Jing, #LI Wanpeng, HE Junyang, #ZHOU Rui, #CHOU Tzu Hsiu, YANG Tao, LIU Chain Tsuan, ZHANG Weidong, LIU Yong, HUANG Chih-Ching, "Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy", <i>Materials Research Letters</i>, 10(9), 03 May 2022, pp 575-584, doi: <a href="https://doi.org/10.1080/21663831.2022.2067790">https://doi.org/10.1080/21663831.2022.2067790</a>.</p> <p>JIN Chengyan, DU Xinghao, #LI Wanpeng, #CHEN Wenyu, YAN Fei, SHI Chuanxin, #CHOU Tzu Hsiu, HUANG Chih-Ching, "Investigation on an anti-corrosion Cu-rich multiple-principal-element alloy strengthened and toughened by nano-scaled L1<sub>2</sub>-type ordered particles", <i>International Journal of Materials Research</i>, 18 May 2022, doi: <a href="https://doi.org/10.1515/ijmr-2021-8677">https://doi.org/10.1515/ijmr-2021-8677</a>.</p> <p>#CHEN Wenyu, #CHEN Yen Hsiang, #LI Wanpeng, #ZHOU Rui, #CHOU Tzu Hsiu, WANG Xu, HUANG Chih-Ching, "Passivation evolution of Ti-Ta-Nb medium-entropy sputtered thin films in sulfuric acid solution", <i>Applied Surface Science</i>, 576(B), 10 November 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151824">https://doi.org/10.1016/j.apsusc.2021.151824</a>.</p>   |
| <b>CHUNG Kam Sing</b> | <p>#CHUNG Kam Sing, LUAN Junhua, SHEK Chan Hung, "Strengthening and deformation mechanism of interstitially N and C doped FeCrCoNi high entropy alloy", <i>Journal of Alloys and Compounds</i>, 904, 03 February 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.164118">https://doi.org/10.1016/j.jallcom.2022.164118</a>.</p>  |
| <b>CUI Huilin</b>     | <p>YANG Qi, QU Xiaofeng, #CUI Huilin, HE Xincheng, SHAO Yuan, ZHANG Yong, #GUO Xun, #CHEN Ao, #CHEN Ze, #ZHANG Rong, KONG Duanyang, SHI Zhicong, LIU Jun, QIU Jieshan, ZHI Chunyi, "Rechargeable Aqueous Mn Metal Battery Enabled by Inorganic-Organic Interfaces", <i>Angewandte Chemie (International Edition)</i>, 02 June 2022, doi: <a href="https://doi.org/10.1002/anie.202206471">https://doi.org/10.1002/anie.202206471</a>.</p> <p>#CUI Huilin, #WANG Tairan, #HUANG Zhaodong, LIANG Guojin, #CHEN Ze, #CHEN Ao, WANG Donghong, YANG Qi, #HONG Hu, FAN Jun, ZHI Chunyi, "High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation", <i>Angewandte Chemie - International Edition</i>, 61(30), 09 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203453">https://doi.org/10.1002/anie.202203453</a>.</p> <p>#HUANG Zhaodong, #WANG Tairan, #LI Xinliang, #CUI Huilin, LIANG Guojin, YANG Qi, #CHEN Ze, #CHEN Ao, #GUO Ying, FAN Jun, ZHI Chunyi, "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i>, 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a>.</p> <p>#LI Pei, #LI Xinliang, #GUO Ying, #LI Chuan, #HOU Yue, #CUI Huilin, #ZHANG Rong, #HUANG Zhaodong, #ZHAO Yuwei, #LI Qing, DONG Binbin, ZHI Chunyi, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p> <p>#LI Xinliang, WANG Yanlei, #CHEN Ze, #LI Pei, LIANG Guojin, #HUANG Zhaodong, YANG Qi, #CHEN Ao, #CUI Huilin, DONG Binbin, HE Hongyan, ZHI Chunyi, "Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery", <i>Angewandte Chemie - International Edition</i>, 61(9), 21 December 2021, doi: <a href="https://doi.org/10.1002/anie.202113576">https://doi.org/10.1002/anie.202113576</a>.</p> |
| <b>DENG Xiang</b>     | <p>#DENG Xiang, #QI Feng, #LI Fengzhu, WU Shengfan, LIN Francis, #ZHANG Zhuomin, GUAN Zhiqiang, YANG Zhengbao, LEE Chun Sing, JEN Alex, "Co-assembled Monolayers as Hole-selective Contact for High-Performance Inverted Perovskite Solar Cells with Optimized Recombination Loss and Long-Term Stability", <i>Angewandte Chemie (International Edition)</i>, 12 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203088">https://doi.org/10.1002/anie.202203088</a>.</p> <p>#WANG Deng, GUO Hongling, #WU Xin, #DENG Xiang, #LI Fengzhu, #LI Zhen, LIN Francis, ZHU Zonglong, ZHANG Yi, XU Baomin, JEN Alex, "Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells", <i>Advanced Functional Materials</i>, 32(2), 04 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202107359">https://doi.org/10.1002/adfm.202107359</a>.</p> <p>#LI Fengzhu, LO Tsz Wing, #DENG Xiang, LI Siqi, FAN Yulong, LIN Francis, CHENG Yuanhang, ZHU Zonglong, LEI Dangyuan, JEN Alex, "Plasmonic Local Heating Induced Strain Modulation for Enhanced Efficiency and Stability of Perovskite Solar Cells",</p>   |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
|                      | <p><i>Advanced Energy Materials</i>, 12(19), 07 April 2022, doi: <a href="https://doi.org/10.1002/aenm.202200186">https://doi.org/10.1002/aenm.202200186</a>.</p> <p>#<a href="#">DENG Xiang</a>, #<a href="#">LI Fengzhu</a>, #<a href="#">WANG Quan</a>, <a href="#">LIU Danjun</a>, <a href="#">LIN Francis</a>, <a href="#">SHEN Dong</a>, <a href="#">LEI Dangyuan</a>, <a href="#">PENG Yung-kang</a>, <a href="#">ZHU Zonglong</a>, <a href="#">JEN Alex</a>, "Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO<sub>2</sub> inorganic interlayer", <i>Matter</i>, 4(10), 06 September 2021, pp 3301-3312, doi: <a href="https://doi.org/10.1016/j.matt.2021.08.012">https://doi.org/10.1016/j.matt.2021.08.012</a>.</p> <p><a href="#">WU Shengfan</a>, #<a href="#">LI Zhen</a>, <a href="#">ZHANG Jie</a>, #<a href="#">WU Xin</a>, #<a href="#">DENG Xiang</a>, #<a href="#">LIU Yiming</a>, #<a href="#">ZHOU Jingkun</a>, <a href="#">ZHI Chunyi</a>, <a href="#">YU Xinge</a>, <a href="#">CHOY Wallace C.H.</a>, <a href="#">ZHU Zonglong</a>, <a href="#">JEN Alex</a>, "Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells", <i>Advanced Materials</i>, 33(51), 03 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105539">https://doi.org/10.1002/adma.202105539</a>.</p>   |
| <b>DOERING Aaron</b> | <p>#<a href="#">DUAN Zonghui</a>, #<a href="#">WANG Shixun</a>, #<a href="#">QI Jinsong</a>, #<a href="#">PORTNIAGIN Arsenii</a>, #<a href="#">DOERING Aaron</a>, <a href="#">KERSHAW Stephen Vincent</a>, <a href="#">ROGACH Andrey</a>, "Highly Luminescent and Stable 2D/3D Octadecylammonium/Formamidinium Lead Bromide Perovskite Films", <i>Journal of Physical Chemistry C</i>, 125(31), 03 August 2021, pp 17501-17508, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04881">https://doi.org/10.1021/acs.jpcc.1c04881</a>.</p> <p>#<a href="#">DOERING Aaron</a>, <a href="#">USHAKOVA Elena</a>, <a href="#">ROGACH Andrey</a>, "Chiral carbon dots: synthesis, optical properties, and emerging applications", <i>Light: Science &amp; Applications</i>, 11, 27 March 2022, doi: <a href="https://doi.org/10.1038/s41377-022-00764-1">https://doi.org/10.1038/s41377-022-00764-1</a>.</p> <p>#<a href="#">DOERING Aaron</a>, <a href="#">XIONG Yuan</a>, <a href="#">LI Yanxiu</a>, <a href="#">SCHNEIDER Julian</a>, <a href="#">CHEREVKOV Sergei A.</a>, <a href="#">USHAKOVA Elena</a>, <a href="#">ROGACH Andrey</a>, "Composite Nanospheres Comprising Luminescent Carbon Dots Incorporated into a Polyhedral Oligomeric Silsesquioxane Matrix", <i>Journal of Physical Chemistry C</i>, 125(27), 01 July 2021, pp 15094-15102, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04505">https://doi.org/10.1021/acs.jpcc.1c04505</a>.</p>  |
| <b>DU Peng</b>       | <p><a href="#">ZHOU Binbin</a>, <a href="#">OU Weihui</a>, #<a href="#">SHEN Junda</a>, #<a href="#">ZHAO Chenghao</a>, #<a href="#">ZHONG Jing</a>, #<a href="#">DU Peng</a>, <a href="#">BIAN Haidong</a>, <a href="#">LI Pan</a>, <a href="#">YANG Liangbao</a>, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Controlling Plasmon-Aided Reduction of <i>p</i>-Nitrothiophenol by Tuning the Illumination Wavelength", <i>ACS Catalysis</i>, 11(24), 29 November 2021, pp 14898-14905, doi: <a href="https://doi.org/10.1021/acscatal.1c04091">https://doi.org/10.1021/acscatal.1c04091</a>.</p> <p>#<a href="#">LI Bo</a>, #<a href="#">LIU Jiahua</a>, <a href="#">LYU Fucong</a>, #<a href="#">DENG Zhiqin</a>, #<a href="#">YI Bo</a>, #<a href="#">DU Peng</a>, <a href="#">YAO Xi</a>, <a href="#">ZHU Guangyu</a>, <a href="#">XU Zhengtao</a>, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the Origin of Life", <i>Advanced Functional Materials</i>, 32(13), 07 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202109302">https://doi.org/10.1002/adfm.202109302</a>.</p> <p><a href="#">LYU Fucong</a>, <a href="#">JIA Zhe</a>, <a href="#">ZENG Shanshan</a>, <a href="#">MA Feixiang</a>, <a href="#">PAN Lulu</a>, #<a href="#">CHENG Lizi</a>, <a href="#">BAO Yan</a>, <a href="#">SUN Ligang</a>, <a href="#">OU Weihui</a>, #<a href="#">DU Peng</a>, <a href="#">LI Yangyang</a>, <a href="#">LU Jian</a>, "Tunable ultrathin dual-phase P-doped Bi<sub>2</sub>MoO<sub>6</sub> nanosheets for advanced lithium and sodium storage", <i>Nano Research</i>, 15(7), 29 March 2022, pp 6128-6137, doi: <a href="https://doi.org/10.1007/s12274-022-4198-5">https://doi.org/10.1007/s12274-022-4198-5</a>.</p> <p><a href="#">CHENG Sum Yin</a>, #<a href="#">MA Tengrui</a>, #<a href="#">XU Xiaohui</a>, #<a href="#">DU Peng</a>, <a href="#">HU Jieying</a>, #<a href="#">XIN Yinger</a>, #<a href="#">AHN Dohyun</a>, <a href="#">HE Jun</a>, <a href="#">XU Zhengtao</a>, "A Ferrocene Metal-Organic Framework Solid for Fe-Loaded Carbon Matrices and Nanotubes: High-Yield Synthesis and Oxygen Reduction Electrocatalysis", <i>Inorganic Chemistry</i>, 60(22), 04 November 2021, pp 17315-17324, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c02696">https://doi.org/10.1021/acs.inorgchem.1c02696</a>.</p> |
| <b>DUAN Zonghui</b>  | <p>#<a href="#">LI Xinliang</a>, #<a href="#">WANG Shixun</a>, #<a href="#">WANG Tairan</a>, #<a href="#">DUAN Zonghui</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, <a href="#">FAN Jun</a>, <a href="#">YANG Cheng</a>, <a href="#">ROGACH Andrey</a>, <a href="#">ZHI Chunyi</a>, "Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries", <i>Nano Energy</i>, 98, 14 April 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107278">https://doi.org/10.1016/j.nanoen.2022.107278</a>.</p> <p>#<a href="#">DUAN Zonghui</a>, <a href="#">NA Guangren</a>, #<a href="#">WANG Shixun</a>, <a href="#">NING Jiajia</a>, <a href="#">XING Bangyu</a>, <a href="#">HUANG Fei</a>, #<a href="#">PORTNIAGIN Arsenii</a>, <a href="#">KERSHAW Stephen Vincent</a>, <a href="#">ZHANG Lijun</a>, <a href="#">ROGACH Andrey</a>, "Proton Transfer-Driven Modification of 3D Hybrid Perovskites to Form Oriented 2D Ruddlesden-Popper Phases", <i>Small Science</i>, 2(3), 23 December 2021, doi: <a href="https://doi.org/10.1002/smssc.202100114">https://doi.org/10.1002/smssc.202100114</a>.</p> <p>#<a href="#">DUAN Zonghui</a>, #<a href="#">WANG Shixun</a>, #<a href="#">QI Jinsong</a>, #<a href="#">PORTNIAGIN Arsenii</a>, #<a href="#">DOERING Aaron</a>, <a href="#">KERSHAW Stephen Vincent</a>, <a href="#">ROGACH Andrey</a>, "Highly Luminescent and Stable 2D/3D</p>   |

## Section A: Publications of PhD Students

|                             |   |
|-----------------------------|---|
|                             | Octadecylammonium/Formamidinium Lead Bromide Perovskite Films", <i>Journal of Physical Chemistry C</i> , 125(31), 03 August 2021, pp 17501–17508, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04881">https://doi.org/10.1021/acs.jpcc.1c04881</a> .  |
| <b>FASASI Teslim Ayinde</b> | #FASASI Teslim Ayinde, #SIN Ching Man, LIU Taili, TSANG Sai Wing, RUOTOLO Antonio, "Effect of the magnetic order on the magneto-photocurrent of organo-metal halide perovskites", <i>Optical Materials</i> , 124, 05 February 2022, doi: <a href="https://doi.org/10.1016/j.optmat.2022.112011">https://doi.org/10.1016/j.optmat.2022.112011</a> .  |
| <b>FU Yang</b>              | #MA Xue, #FU Yang, #PORTNIAGIN Arsenii, YANG Ning, LIU Danjun, ROGACH Andrey, DAI Jian-Guo, LEI Danguyan, "Effects of Stokes shift and Purcell enhancement on fluorescence-assisted radiative cooling", <i>Journal of Materials Chemistry A</i> , 24 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02259a">https://doi.org/10.1039/d2ta02259a</a> .<br>#FU Yang, AN Yidan, #XU Yunkun, DAI Jian-Guo, LEI Danguyan, "Polymer coating with gradient-dispersed dielectric nanoparticles for enhanced daytime radiative cooling", <i>EcoMat</i> , 11 January 2022, doi: <a href="https://doi.org/10.1002/eom2.12169">https://doi.org/10.1002/eom2.12169</a> .   |
| <b>GAN Shifeng</b>          | ZHANG Jing, ZOU Hang, #GAN Shifeng, HE Benzhaoh, HUANG Chih-Ching, PENG Chen, LAM Jacky W.Y., ZHENG Lei, TANG Ben Zhong, "Endowing AIE with Extraordinary Potential: A New Au(I)-Containing AIEgen for Bimodal Bioimaging-Guided Multimodal Synergistic Cancer Therapy", <i>Advanced Functional Materials</i> , 05 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202108199">https://doi.org/10.1002/adfm.202108199</a> .   |
| <b>GAO Qili</b>             | JIANG Hao, #BU Shuyu, #GAO Qili, LONG Jun, WANG Pengfei, LEE Chun Sing, ZHANG Wenjun, "Ultrathin two-dimensional nickel-organic framework nanosheets for efficient electrocatalytic urea oxidation", <i>Materials Today Energy</i> , 27, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.mtener.2022.101024">https://doi.org/10.1016/j.mtener.2022.101024</a> .  |
| <b>GU Qianfeng</b>          | ZHOU Yin, #GU Qianfeng, YIN Kun, LI Yiju, TAO Lu, TAN Hao, YANG Yong, GUO Shaojun, "Engineering e <sub>g</sub> Orbital Occupancy of Pt with Au Alloying Enables Reversible Li-O <sub>2</sub> Batteries", <i>Angewandte Chemie (International Edition)</i> , 03 May 2022, doi: <a href="https://doi.org/10.1002/anie.202201416">https://doi.org/10.1002/anie.202201416</a> .<br>ZHOU Yin, YIN Kun, #GU Qianfeng, TAO Lu, LI Yiju, TAN Hao, ZHOU Jinhui, ZHANG Wenshu, LI Hongbo, GUO Shaojun, "Lewis-Acidic PtIr Multipods Enable High-Performance Li–O <sub>2</sub> Batteries", <i>Angewandte Chemie - International Edition</i> , 60(51), 31 October 2021, pp 26592–26598, doi: <a href="https://doi.org/10.1002/anie.202114067">https://doi.org/10.1002/anie.202114067</a> .  |
| <b>GUO Chen</b>             | #LIU Linlin, LIANG Xiongyi, QIU Guangyu, #GUO Chen, #CHAN Yau Kwan, WU Lawrence, "Self-Assembly Silver Nanoparticles Decorated on Gold Nanoislands for Label-Free Localized Surface Plasmon Resonance Biosensing", <i>Advanced Materials Interfaces</i> , 9(15), 10 April 2022, doi: <a href="https://doi.org/10.1002/admi.202200339">https://doi.org/10.1002/admi.202200339</a> .<br>#MUSAH Jamal-Deen, #LIU Linlin, #GUO Chen, NOVITSKII Andrei, #ILYAS Abdul-mojeed Olabisi, SERHIIENKO Illia, KHOVAYLO Vladimir, VELLAISAMY Arul Lenus Roy, WU Lawrence, "Enhanced Thermoelectric Performance of Bulk Bismuth Selenide: Synergistic Effect of Indium and Antimony Co-doping", <i>ACS Sustainable Chemistry and Engineering</i> , 10(12), 15 March 2022, pp 3862–3871, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c07256">https://doi.org/10.1021/acssuschemeng.1c07256</a> .  |
| <b>GUO Xun</b>              | YANG Qi, QU Xiaofeng, #CUI Huilin, HE Xincheng, SHAO Yuan, ZHANG Yong, #GUO Xun, #CHEN Ao, #CHEN Ze, #ZHANG Rong, KONG Duanyang, SHI Zhicong, LIU Jun, QIU Jieshan, ZHI Chunyi, "Rechargeable Aqueous Mn Metal Battery Enabled by Inorganic-Organic Interfaces", <i>Angewandte Chemie (International Edition)</i> , 02 June 2022, doi: <a href="https://doi.org/10.1002/anie.202206471">https://doi.org/10.1002/anie.202206471</a> .<br>WANG Donghong, #GUO Xun, #CHEN Ze, #ZHAO Yuwei, #LI Qing, ZHI Chunyi, "Ionic Liquid Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries", <i>ACS Applied Materials &amp; Interfaces</i> , 14(23), 06 June 2022, pp 27287–27293, doi: <a href="https://doi.org/10.1021/acsami.2c06793">https://doi.org/10.1021/acsami.2c06793</a> .<br>#YANG Shuo, #LI Chuan, LV Haiming, #GUO Xun, #WANG Yanbo, HAN Cuiping, ZHI Chunyi, LI Hongfei, "High-Rate Aqueous Aluminum-Ion Batteries Enabled by Confined Iodine Conversion Chemistry", <i>Small Methods</i> , 5(10), 05 September 2021, doi: <a href="https://doi.org/10.1002/smt.202100611">https://doi.org/10.1002/smt.202100611</a> .<br>#WANG Yanbo, YANG Qi, #GUO Xun, #YANG Shuo, #CHEN Ao, LIANG Guojin, ZHI Chunyi, "Strategies of binder design for high-performance lithium-ion batteries: a mini review", |

## Section A: Publications of PhD Students

|                 |  |
|-----------------|--|
|                 | <i>Rare Metals</i> , 41(3), 04 September 2021, pp 745–761, doi: <a href="https://doi.org/10.1007/s12598-021-01816-y">https://doi.org/10.1007/s12598-021-01816-y</a> .  |
| <b>GUO Yang</b> | <u>CHEN Bing</u> , # <u>GUO Yang</u> , # <u>WANG Yuan</u> , # <u>LIU Zhen</u> , <u>WEI Qi</u> , # <u>WANG Shixun</u> , <u>ROGACH Andrey</u> , <u>XING Guichuan</u> , <u>SHI Peng</u> , <u>WANG Feng</u> , "Multiexcitonic Emission in Zero-Dimensional Cs <sub>2</sub> ZrCl <sub>6</sub> :Sb <sup>3+</sup> Perovskite Crystals", <i>Journal of the American Chemical Society</i> , 143(42), 13 October 2021, pp 17599–17606, doi: <a href="https://doi.org/10.1021/jacs.1c07537">https://doi.org/10.1021/jacs.1c07537</a> .  |
|                 | <u>SUN Tianying</u> , <u>CHEN Bing</u> , # <u>GUO Yang</u> , # <u>ZHU Qi</u> , <u>ZHAO Jianxiong</u> , <u>LI Yuhua</u> , <u>CHEN Xian</u> , <u>WU Yunkai</u> , <u>GAO Yaobin</u> , <u>JIN Limin</u> , <u>CHU Sai Tak</u> , <u>WANG Feng</u> , "Ultralarge anti-Stokes lasing through tandem upconversion", <i>Nature Communications</i> , 13, 24 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28701-1">https://doi.org/10.1038/s41467-022-28701-1</a> .   |
|                 | # <u>GUO Yang</u> , <u>CHEN Bing</u> , <u>REN Xiaolin</u> , <u>WANG Feng</u> , "Recent Advances in All-Inorganic Zero-Dimensional Metal Halides", <i>ChemPlusChem</i> , 86(12), 25 November 2021, pp 1577-1585, doi: <a href="https://doi.org/10.1002/cplu.202100459">https://doi.org/10.1002/cplu.202100459</a> .   |
| <b>GUO Ying</b> | # <u>ZHANG Rong</u> , # <u>WU Zhuoxi</u> , # <u>HUANG Zhaodong</u> , # <u>GUO Ying</u> , # <u>ZHANG Shaoce</u> , # <u>ZHAO Yuwei</u> , <u>ZHI Chunyi</u> , "Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery", <i>Chinese Chemical Letters</i> , 13 June 2022, doi: <a href="https://doi.org/10.1016/j.ccl.2022.06.023">https://doi.org/10.1016/j.ccl.2022.06.023</a> .   |
|                 | # <u>ZHAO Yuwei</u> , <u>ZHU Yongbin</u> , <u>JIANG Feng</u> , <u>LI Yiyao</u> , # <u>MENG You</u> , # <u>GUO Ying</u> , # <u>LI Qing</u> , # <u>HUANG Zhaodong</u> , # <u>ZHANG Shaoce</u> , # <u>ZHANG Rong</u> , <u>HO Johnny Chung Yin</u> , <u>ZHANG Qianfan</u> , <u>LIU Weishu</u> , <u>ZHI Chunyi</u> , "Vacancy Modulating Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i> , 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a> .  |
|                 | # <u>ZHANG Rong</u> , # <u>ZHANG Shaoce</u> , # <u>GUO Ying</u> , # <u>LI Chuan</u> , # <u>LIU Jiahua</u> , # <u>HUANG Zhaodong</u> , # <u>ZHAO Yuwei</u> , <u>LI Yangyang</u> , <u>ZHI Chunyi</u> , "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt oxide nanotubes", <i>Energy &amp; Environmental Science</i> , 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a> .  |
|                 | # <u>GUO Ying</u> , <u>GU Jinxing</u> , # <u>ZHANG Rong</u> , # <u>ZHANG Shaoce</u> , <u>LI Zhen</u> , # <u>ZHAO Yuwei</u> , # <u>HUANG Zhaodong</u> , <u>FAN Jun</u> , <u>CHEN Zhongfang</u> , <u>ZHI Chunyi</u> , "Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction", <i>Advanced Energy Materials</i> , 11(36), 06 August 2021, doi: <a href="https://doi.org/10.1002/aenm.202101699">https://doi.org/10.1002/aenm.202101699</a> .  |
|                 | # <u>ZHANG Rong</u> , # <u>GUO Ying</u> , # <u>ZHANG Shaoce</u> , # <u>CHEN Dong</u> , # <u>ZHAO Yuwei</u> , # <u>HUANG Zhaodong</u> , <u>MA Longtao</u> , # <u>LI Pei</u> , <u>YANG Qi</u> , <u>LIANG Guojin</u> , <u>ZHI Chunyi</u> , "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i> , 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a> .   |
|                 | # <u>ZHAO Yuwei</u> , <u>LU Yue</u> , <u>LI Huiping</u> , <u>ZHU Yongbin</u> , # <u>MENG You</u> , <u>LI Na</u> , <u>WANG Donghong</u> , <u>JIANG Feng</u> , <u>MO Funian</u> , <u>LONG Changbai</u> , # <u>GUO Ying</u> , # <u>LI Xinliang</u> , # <u>HUANG Zhaodong</u> , # <u>LI Qing</u> , <u>HO Johnny Chung Yin</u> , <u>FAN Jun</u> , <u>SUI Manling</u> , <u>CHEN Fu-Rong</u> , <u>ZHU Wenguang</u> , <u>LIU Weishu</u> , <u>ZHI Chunyi</u> , "Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries", <i>Nature Communications</i> , 13, 08 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28380-y">https://doi.org/10.1038/s41467-022-28380-y</a> . |
|                 | # <u>HUANG Zhaodong</u> , # <u>WANG Tairan</u> , # <u>LI Xinliang</u> , # <u>CUI Huilin</u> , <u>LIANG Guojin</u> , <u>YANG Qi</u> , # <u>CHEN Ze</u> , # <u>CHEN Ao</u> , # <u>GUO Ying</u> , <u>FAN Jun</u> , <u>ZHI Chunyi</u> , "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i> , 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a> .  |
|                 | <u>YAN Wenhao</u> , <u>MA Longtao</u> , <u>XU Jiangang</u> , # <u>GUO Ying</u> , <u>HU Haibo</u> , <u>ZHI Chunyi</u> , <u>HO Derek</u> , "Battery-Sensor Hybrid: A New Gas Sensing Paradigm with Complete Energy Self-Sufficiency", <i>ACS Applied Materials and Interfaces</i> , 13(39), 27 September 2021, pp 46507-46517, doi: <a href="https://doi.org/10.1021/acsami.1c09255">https://doi.org/10.1021/acsami.1c09255</a> .  |
|                 | <u>YANG Qi</u> , <u>LI Liang</u> , <u>HUSSAIN Tanveer</u> , <u>WANG Donghong</u> , <u>HUI Lan</u> , # <u>GUO Ying</u> , <u>LIANG Guojin</u> , # <u>LI Xinliang</u> , # <u>CHEN Ze</u> , # <u>HUANG Zhaodong</u> , <u>LI Yongjun</u> , <u>XUE Yurui</u> , <u>ZUO Zicheng</u> , <u>QIU Jieshan</u> , <u>LI Yuliang</u> , <u>ZHI Chunyi</u> , "Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries", <i>Angewandte Chemie -</i>  |



## Section A: Publications of PhD Students

|         |  |
|---------|--|
|         | <p><i>International Edition</i>, 61(6), 19 November 2021, doi: <a href="https://doi.org/10.1002/anie.202112304">https://doi.org/10.1002/anie.202112304</a>.</p> <p>#ZHAO Yuwei, JIANG Feng, #HONG Hu, WANG Donghong, #LI Qing, #MENG You, #HUANG Zhaodong, #GUO Ying, #LI Xinliang, #CHEN Ao, #ZHANG Rong, #ZHANG Shaoce, HO Johnny Chung Yin, YAO Zhenpeng, LIU Weishu, ZHI Chunyi, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i>, 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a>.</p> <p>#GUO Ying, #ZHANG Shaoce, #ZHANG Rong, WANG Donghong, ZHU Daming, WANG Xuewan, XIAO Diwen, LI Na, #ZHAO Yuwei, #HUANG Zhaodong, XU Wenjie, CHEN Shuangming, SONG Li, FAN Jun, CHEN Qing, ZHI Chunyi, "Electrochemical Nitrate Production via Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets", <i>ACS Nano</i>, 16(1), 22 December 2021, pp 655–663, doi: <a href="https://doi.org/10.1021/acsnano.1c08109">https://doi.org/10.1021/acsnano.1c08109</a>.</p> <p>#LI Pei, #LI Xinliang, #GUO Ying, #LI Chuan, #HOU Yue, #CUI Huilin, #ZHANG Rong, #HUANG Zhaodong, #ZHAO Yuwei, #LI Qing, DONG Binbin, ZHI Chunyi, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p>   |
| HE Yun  | <p>ZHAO Wanqing, CAO Xianwu, HUANG Jinshu, WEN Jiangwei, #HE Yun, ZHA Junwei, LI Kwok Yiu Robert, WU Wei, "Construction of micro-branched crosslink fluorinated polyimide with ultra-low dielectric permittivity and enhanced mechanical properties", <i>Express Polymer Letters</i>, 16(2), February 2022, pp 142-151, doi: <a href="https://doi.org/10.3144/expresspolymlett.2022.12">https://doi.org/10.3144/expresspolymlett.2022.12</a>.</p> <p>CAO Xianwu, HUANG Jingshu, #HE Yun, HU Chunyan, ZHANG Qunchao, YIN Xinmao, WU Wei, LI Kwok Yiu Robert, "Biodegradable and renewable UV-shielding polylactide composites containing hierarchical structured POSS functionalized lignin", <i>International Journal of Biological Macromolecules</i>, 188, 08 August 2021, pp 323-332, doi: <a href="https://doi.org/10.1016/j.ijbiomac.2021.08.033">https://doi.org/10.1016/j.ijbiomac.2021.08.033</a>.</p>   |
| HONG Hu | <p>WANG Xiaoke, ZHANG Xixi, ZHAO Gang, #HONG Hu, TANG Zijie, XU Xijin, LI Hongfei, ZHI Chunyi, HAN Cuiping, "Ether-Water Hybrid Electrolyte Contributing to Excellent Mg Ion Storage in Layered Sodium Vanadate", <i>ACS Nano</i>, 16(4), 21 March 2022, pp 6093–6102, doi: <a href="https://doi.org/10.1021/acsnano.1c11590">https://doi.org/10.1021/acsnano.1c11590</a>.</p> <p>#CUI Huilin, #WANG Tairan, #HUANG Zhaodong, LIANG Guojin, #CHEN Ze, #CHEN Ao, WANG Donghong, YANG Qi, #HONG Hu, FAN Jun, ZHI Chunyi, "High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation", <i>Angewandte Chemie - International Edition</i>, 61(30), 09 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203453">https://doi.org/10.1002/anie.202203453</a>.</p> <p>HE Jiafeng, #HONG Hu, FENG Qi, WANG Xiaoke, ZHAO Xiliang, XU Minwei, WU Xiang, LI Hongfei, ZHI Chunyi, HAN Cuiping, "Conjugated cobalt polyphthalocyanine with defective <math>\pi</math>-<math>\pi</math> extended structure for enhanced rechargeable li-oxygen batteries", <i>Chemical Engineering Journal</i>, 444, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.136544">https://doi.org/10.1016/j.cej.2022.136544</a>.</p> <p>WANG Donghong, #LI Qing, #ZHAO Yuwei, #HONG Hu, LI Hongfei, #HUANG Zhaodong, LIANG Guojin, YANG Qi, ZHI Chunyi, "Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation", <i>Advanced Energy Materials</i>, 12(9), 17 January 2022, doi: <a href="https://doi.org/10.1002/aenm.202102707">https://doi.org/10.1002/aenm.202102707</a>.</p> <p>#ZHAO Yuwei, JIANG Feng, #HONG Hu, WANG Donghong, #LI Qing, #MENG You, #HUANG Zhaodong, #GUO Ying, #LI Xinliang, #CHEN Ao, #ZHANG Rong, #ZHANG Shaoce, HO Johnny Chung Yin, YAO Zhenpeng, LIU Weishu, ZHI Chunyi, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i>, 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a>.</p> |
| HOU Yue | <p>#LI Xinliang, #LI Qing, #HOU Yue, YANG Qi, #CHEN Ze, #HUANG Zhaodong, LIANG Guojin, #ZHAO Yuwei, MA Longtao, LI Mian, HUANG Qing, ZHI Chunyi, "Toward a Practical Zn Powder Anode: Ti<sub>3</sub>C<sub>2</sub>Tx MXene as a Lattice-Match Electrons/Ions Redistributor", <i>ACS</i></p>   |

## Section A: Publications of PhD Students

|                         |  |
|-------------------------|--|
|                         | <p><i>Nano</i>, 15(9), 03 September 2021, pp 14631–14642, doi: <a href="https://doi.org/10.1021/acsnano.1c04354">https://doi.org/10.1021/acsnano.1c04354</a>.</p> <p>#<a href="#">LI Xinliang</a>, #<a href="#">MA Xinyao</a>, #<a href="#">HOU Yue</a>, ZHANG Zhenhua, LU Yue, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, LI Mian, <a href="#">YANG Qi</a>, MA Jiale, <a href="#">LI Na</a>, DONG Binbin, HUANG Qing, <a href="#">CHEN Fu-Rong</a>, <a href="#">FAN Jun</a>, <a href="#">ZHI Chunyi</a>, "Intrinsic voltage plateau of a Nb<sub>2</sub>CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning", <i>Joule</i>, 5(11), 11 October 2021, pp 2993-3005, doi: <a href="https://doi.org/10.1016/j.joule.2021.09.006">https://doi.org/10.1016/j.joule.2021.09.006</a>.</p> <p>#<a href="#">HOU Yue</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LI Pei</a>, #<a href="#">WANG Yanbo</a>, <a href="#">ZHI Chunyi</a>, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i>, 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a>.</p> <p>#<a href="#">LI Xinliang</a>, LI Mian, LUO Kan, #<a href="#">HOU Yue</a>, #<a href="#">LI Pei</a>, <a href="#">YANG Qi</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, #<a href="#">CHEN Ze</a>, DU Shiyu, HUANG Qing, <a href="#">ZHI Chunyi</a>, "Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti<sub>3</sub>C<sub>2</sub> MXenes", <i>ACS Nano</i>, 16(1), 28 December 2021, pp 813–822, doi: <a href="https://doi.org/10.1021/acsnano.1c08358">https://doi.org/10.1021/acsnano.1c08358</a>.</p> <p>#<a href="#">LI Pei</a>, #<a href="#">LI Xinliang</a>, #<a href="#">GUO Ying</a>, #<a href="#">LI Chuan</a>, #<a href="#">HOU Yue</a>, #<a href="#">CUI Huilin</a>, #<a href="#">ZHANG Rong</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">ZHAO Yuwei</a>, #<a href="#">LI Qing</a>, DONG Binbin, <a href="#">ZHI Chunyi</a>, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p> |
| <b>HU Sile</b>          | # <a href="#">HU Sile</a> , REN Zhilin, DJURIŠIĆ Aleksandra B., <a href="#">ROGACH Andrey</a> , "Metal Halide Perovskites as Emerging Thermoelectric Materials", <i>ACS Energy Letters</i> , 6(11), 13 October 2021, pp 3882-3905, doi: <a href="https://doi.org/10.1021/acsnano.1c02015">https://doi.org/10.1021/acsnano.1c02015</a> .  |
| <b>HUANG Changxiong</b> | # <a href="#">MA Xinyao</a> , # <a href="#">ZHU Xiaohong</a> , # <a href="#">HUANG Changxiong</a> , <a href="#">FAN Jun</a> , "Revealing the effects of terminal groups of MXene on the water desalination performance", <i>Journal of Membrane Science</i> , 647, 02 February 2022, doi: <a href="https://doi.org/10.1016/j.memsci.2022.120334">https://doi.org/10.1016/j.memsci.2022.120334</a> .  |
|                         | # <a href="#">HUANG Changxiong</a> , # <a href="#">ZHU Xiaohong</a> , LI Zhen, # <a href="#">MA Xinyao</a> , <a href="#">LI Na</a> , # <a href="#">LUO Jun</a> , <a href="#">FAN Jun</a> , "Molecular insights into geometric and electrophoretic effects on DNA translocation speed through graphene nanoslit sensor", <i>Carbon</i> , 191, 04 February 2022, pp 415-423, doi: <a href="https://doi.org/10.1016/j.carbon.2022.01.068">https://doi.org/10.1016/j.carbon.2022.01.068</a> .  |
| <b>HUANG Jing</b>       | # <a href="#">HUANG Jing</a> , # <a href="#">LI Wanpeng</a> , HE Junyang, # <a href="#">ZHOU Rui</a> , # <a href="#">CHOU Tzu Hsiu</a> , <a href="#">YANG Tao</a> , <a href="#">LIU Chain Tsuan</a> , ZHANG Weidong, LIU Yong, <a href="#">HUANG Chih-Ching</a> , "Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy", <i>Materials Research Letters</i> , 10(9), 03 May 2022, pp 575-584, doi: <a href="https://doi.org/10.1080/21663831.2022.2067790">https://doi.org/10.1080/21663831.2022.2067790</a> .  |
| <b>HUANG Zhaodong</b>   | # <a href="#">LI Xinliang</a> , # <a href="#">WANG Shixun</a> , # <a href="#">WANG Tairan</a> , # <a href="#">DUAN Zonghui</a> , # <a href="#">HUANG Zhaodong</a> , <a href="#">LIANG Guojin</a> , <a href="#">FAN Jun</a> , YANG Cheng, <a href="#">ROGACH Andrey</a> , <a href="#">ZHI Chunyi</a> , "Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries", <i>Nano Energy</i> , 98, 14 April 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107278">https://doi.org/10.1016/j.nanoen.2022.107278</a> .  |
|                         | # <a href="#">ZHANG Rong</a> , # <a href="#">WU Zhuoxi</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">GUO Ying</a> , # <a href="#">ZHANG Shaoce</a> , # <a href="#">ZHAO Yuwei</a> , <a href="#">ZHI Chunyi</a> , "Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery", <i>Chinese Chemical Letters</i> , 13 June 2022, doi: <a href="https://doi.org/10.1016/j.ccl.2022.06.023">https://doi.org/10.1016/j.ccl.2022.06.023</a> .  |
|                         | # <a href="#">LI Xinliang</a> , # <a href="#">LI Qing</a> , # <a href="#">HOU Yue</a> , <a href="#">YANG Qi</a> , # <a href="#">CHEN Ze</a> , # <a href="#">HUANG Zhaodong</a> , <a href="#">LIANG Guojin</a> , # <a href="#">ZHAO Yuwei</a> , <a href="#">MA Longtao</a> , LI Mian, HUANG Qing, <a href="#">ZHI Chunyi</a> , "Toward a Practical Zn Powder Anode: Ti <sub>3</sub> C <sub>2</sub> Tx MXene as a Lattice-Match Electrons/Ions Redistributor", <i>ACS Nano</i> , 15(9), 03 September 2021, pp 14631–14642, doi: <a href="https://doi.org/10.1021/acsnano.1c04354">https://doi.org/10.1021/acsnano.1c04354</a> .  |
|                         | # <a href="#">CHEN Ze</a> , # <a href="#">LI Chuan</a> , YANG Qi, WANG Donghong, # <a href="#">LI Xinliang</a> , # <a href="#">HUANG Zhaodong</a> , <a href="#">LIANG Guojin</a> , # <a href="#">CHEN Ao</a> , <a href="#">ZHI Chunyi</a> , "Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries", <i>Advanced Materials</i> , 33(51), 06 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105426">https://doi.org/10.1002/adma.202105426</a> .   |

Section A: Publications of PhD Students

|  |
|--|
| #CHEN Ze, YANG Qi, WANG Donghong, #CHEN Ao, #LI Xinliang, #HUANG Zhaodong, LIANG Guojin, WANG Ying, ZHI Chunyi, "Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism", <i>ACS Nano</i> , 16(4), 31 March 2022, pp 5349–5357, doi: <a href="https://doi.org/10.1021/acsnano.1c07939">https://doi.org/10.1021/acsnano.1c07939</a> .  |
| #LI Qing, #YAN Boxun, WANG Donghong, YANG Qi, #HUANG Zhaodong, FAN Jun, DAI Ming, CHEN Wenshui, ZHI Chunyi, "Mechanistic Study of Interfacial Modification for Stable Zn Anode Based on a Thin Separator", <i>Small</i> , 18(20), 15 April 2022, doi: <a href="https://doi.org/10.1002/sml.202201045">https://doi.org/10.1002/sml.202201045</a> .  |
| #LI Xinliang, #MA Xinyao, #HOU Yue, ZHANG Zhenhua, LU Yue, #HUANG Zhaodong, LIANG Guojin, LI Mian, YANG Qi, MA Jiale, LI Na, DONG Binbin, HUANG Qing, CHEN Fu-Rong, FAN Jun, ZHI Chunyi, "Intrinsic voltage plateau of a Nb <sub>2</sub> CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning", <i>Joule</i> , 5(11), 11 October 2021, pp 2993-3005, doi: <a href="https://doi.org/10.1016/j.joule.2021.09.006">https://doi.org/10.1016/j.joule.2021.09.006</a> .        |
| #CUI Huilin, #WANG Tairan, #HUANG Zhaodong, LIANG Guojin, #CHEN Ze, #CHEN Ao, WANG Donghong, YANG Qi, #HONG Hu, FAN Jun, ZHI Chunyi, "High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation", <i>Angewandte Chemie - International Edition</i> , 61(30), 09 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203453">https://doi.org/10.1002/anie.202203453</a> .  |
| #ZHAO Yuwei, ZHU Yongbin, JIANG Feng, LI Yiyao, #MENG You, #GUO Ying, #LI Qing, #HUANG Zhaodong, #ZHANG Shaoce, #ZHANG Rong, HO Johnny Chung Yin, ZHANG Qianfan, LIU Weishu, ZHI Chunyi, "Vacancy Modulating Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i> , 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a> . |
| #ZHANG Rong, #ZHANG Shaoce, #GUO Ying, #LI Chuan, #LIU Jiahua, #HUANG Zhaodong, #ZHAO Yuwei, LI Yangyang, ZHI Chunyi, "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt oxide nanotubes", <i>Energy &amp; Environmental Science</i> , 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a> .   |
| #HOU Yue, #HUANG Zhaodong, #CHEN Ze, #LI Xinliang, #CHEN Ao, #LI Pei, #WANG Yanbo, ZHI Chunyi, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i> , 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a> .   |
| YANG Qi, #LI Xinliang, #CHEN Ze, #HUANG Zhaodong, ZHI Chunyi, "Cathode Engineering for High Energy Density Aqueous Zn Batteries", <i>Accounts of Materials Research</i> , 3(1), 17 November 2021, pp 78-88, doi: <a href="https://doi.org/10.1021/accountsmr.1c00199">https://doi.org/10.1021/accountsmr.1c00199</a> .   |
| #GUO Ying, GU Jinxing, #ZHANG Rong, #ZHANG Shaoce, LI Zhen, #ZHAO Yuwei, #HUANG Zhaodong, FAN Jun, CHEN Zhongfang, ZHI Chunyi, "Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction", <i>Advanced Energy Materials</i> , 11(36), 06 August 2021, doi: <a href="https://doi.org/10.1002/aenm.202101699">https://doi.org/10.1002/aenm.202101699</a> .   |
| #LI Xinliang, LI Mian, LUO Kan, #HOU Yue, #LI Pei, YANG Qi, #HUANG Zhaodong, LIANG Guojin, #CHEN Ze, DU Shiyu, HUANG Qing, ZHI Chunyi, "Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti <sub>3</sub> C <sub>2</sub> MXenes", <i>ACS Nano</i> , 16(1), 28 December 2021, pp 813–822, doi: <a href="https://doi.org/10.1021/acsnano.1c08358">https://doi.org/10.1021/acsnano.1c08358</a> .                                    |
| WANG Donghong, #LI Qing, #ZHAO Yuwei, #HONG Hu, LI Hongfei, #HUANG Zhaodong, LIANG Guojin, YANG Qi, ZHI Chunyi, "Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation", <i>Advanced Energy Materials</i> , 12(9), 17 January 2022, doi: <a href="https://doi.org/10.1002/aenm.202102707">https://doi.org/10.1002/aenm.202102707</a> .  |
| #ZHANG Rong, #GUO Ying, #ZHANG Shaoce, #CHEN Dong, #ZHAO Yuwei, #HUANG Zhaodong, MA Longtao, #LI Pei, YANG Qi, LIANG Guojin, ZHI Chunyi, "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i> , 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a> .  |

Section A: Publications of PhD Students

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|              | <p>#ZHAO Yuwei, LU Yue, LI Huiping, ZHU Yongbin, #MENG You, LI Na, WANG Donghong, JIANG Feng, MO Funian, LONG Changbai, #GUO Ying, #LI Xinliang, #HUANG Zhaodong, #LI Qing, HO Johnny Chung Yin, FAN Jun, SUI Manling, CHEN Fu-Rong, ZHU Wenguang, LIU Weishu, ZHI Chunyi, "Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries", <i>Nature Communications</i>, 13, 08 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28380-y">https://doi.org/10.1038/s41467-022-28380-y</a>.</p> |
|              | <p>#HUANG Zhaodong, #WANG Tairan, #LI Xinliang, #CUI Huilin, LIANG Guojin, YANG Qi, #CHEN Ze, #CHEN Ao, #GUO Ying, FAN Jun, ZHI Chunyi, "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i>, 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a>.</p>   |
|              | <p>YANG Qi, LI Liang, HUSSAIN Tanveer, WANG Donghong, HUI Lan, #GUO Ying, LIANG Guojin, #LI Xinliang, #CHEN Ze, #HUANG Zhaodong, LI Yongjun, XUE Yurui, ZUO Zicheng, QIU Jieshan, LI Yuliang, ZHI Chunyi, "Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries", <i>Angewandte Chemie - International Edition</i>, 61(6), 19 November 2021, doi: <a href="https://doi.org/10.1002/anie.202112304">https://doi.org/10.1002/anie.202112304</a>.</p>  |
|              | <p>#LI Xinliang, #HUANG Zhaodong, SHUCK Christopher E., LIANG Guojin, GOGOTSI Yury, ZHI Chunyi, "MXene chemistry, electrochemistry and energy storage applications", <i>Nature Reviews Chemistry</i>, 6(6), 20 April 2022, pp 389–404, doi: <a href="https://doi.org/10.1038/s41570-022-00384-8">https://doi.org/10.1038/s41570-022-00384-8</a>.</p>  |
|              | <p>#ZHAO Yuwei, JIANG Feng, #HONG Hu, WANG Donghong, #LI Qing, #MENG You, #HUANG Zhaodong, #GUO Ying, #LI Xinliang, #CHEN Ao, #ZHANG Rong, #ZHANG Shaoce, HO Johnny Chung Yin, YAO Zhenpeng, LIU Weishu, ZHI Chunyi, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i>, 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a>.</p>                         |
|              | <p>CHEN Shengmei, MA Longtao, #HUANG Zhaodong, LIANG Guojin, ZHI Chunyi, "<i>In situ/operando</i> analysis of surface reconstruction of transition metal-based oxygen evolution electrocatalysts", <i>Cell Reports Physical Science</i>, 3(1), 11 January 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2021.100729">https://doi.org/10.1016/j.xcrp.2021.100729</a>.</p>   |
|              | <p>#GUO Ying, #ZHANG Shaoce, #ZHANG Rong, WANG Donghong, ZHU Daming, WANG Xuewan, XIAO Diwen, LI Na, #ZHAO Yuwei, #HUANG Zhaodong, XU Wenjie, CHEN Shuangming, SONG Li, FAN Jun, CHEN Qing, ZHI Chunyi, "Electrochemical Nitrate Production via Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets", <i>ACS Nano</i>, 16(1), 22 December 2021, pp 655–663, doi: <a href="https://doi.org/10.1021/acsnano.1c08109">https://doi.org/10.1021/acsnano.1c08109</a>.</p>  |
|              | <p>#LI Pei, #LI Xinliang, #GUO Ying, #LI Chuan, #HOU Yue, #CUI Huilin, #ZHANG Rong, #HUANG Zhaodong, #ZHAO Yuwei, #LI Qing, DONG Binbin, ZHI Chunyi, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p>   |
|              | <p>#LI Xinliang, WANG Yanlei, #CHEN Ze, #LI Pei, LIANG Guojin, #HUANG Zhaodong, YANG Qi, #CHEN Ao, #CUI Huilin, DONG Binbin, HE Hongyan, ZHI Chunyi, "Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery", <i>Angewandte Chemie - International Edition</i>, 61(9), 21 December 2021, doi: <a href="https://doi.org/10.1002/anie.202113576">https://doi.org/10.1002/anie.202113576</a>.</p>  |
| HUANG Zhihao | <p>WANG Kang, SONG Youyi, #HUANG Zhihao, SUN Yibo, XU Jinghua, ZHANG Shuyou, "Additive manufacturing energy consumption measurement and prediction in fabricating lattice structure based on recallable multimodal fusion network", <i>Measurement: Journal of the International Measurement Confederation</i>, 196, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.measurement.2022.111215">https://doi.org/10.1016/j.measurement.2022.111215</a>.</p>   |
|              | <p>YE Songbo, ZHU Jinpeng, WANG Hailong, LI Mingliang, #HUANG Zhihao, HE Jilin, "Phase evolution and thermal stability of novel high-entropy (Mo<sub>0.2</sub>Nb<sub>0.2</sub>Ta<sub>0.2</sub>W<sub>0.2</sub>)Si<sub>2</sub> ceramics", <i>Journal of the European Ceramic Society</i>, 42(13), 25 June 2022, pp 5314-5322, doi: <a href="https://doi.org/10.1016/j.jeurceramsoc.2022.06.067">https://doi.org/10.1016/j.jeurceramsoc.2022.06.067</a>.</p>   |

Section A: Publications of PhD Students

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| <p><b>HUQE Md Rashedul</b></p> | <p><u>LIU Taili</u>, #<u>ZHANG Di</u>, #<u>HUQE Md Rashedul</u>, <u>WANG Wen</u>, <u>ZAPIEN Juan Antonio</u>, <u>TSANG Sai Wing</u>, <u>LUO Jingdong</u>, "Record-high near-band-edge optical nonlinearities and two-level model correction of poled polymers by spectroscopic electromodulation and ellipsometry", <i>Science China Chemistry</i>, 65(3), 21 December 2021, pp 584-593, doi: <a href="https://doi.org/10.1007/s11426-021-1164-4">https://doi.org/10.1007/s11426-021-1164-4</a>.</p>  |
|                                | <p>LIU Fangzhou, QIN Xinshun, HAN Bing, CHAN Christopher C. S., MA Chao, LEUNG Tik Lun, CHEN Wei, HE Yanling, LONČARIĆ Ivor, GRISANTI Luca, OVČAR Juraj, SKOKO Željko, SHI Yingli, LING Francis Chi Chung, #<u>HUQE Md Rashedul</u>, <u>ZAPIEN Juan Antonio</u>, #<u>WANG Shixun</u>, SU Chun-Jen, JENG U-Ser, WONG Kam Sing, NG Alan Man-Ching, GU Meng, POPOVIĆ Jasminka, DJURIŠIĆ Aleksandra B., "Enhanced Light Emission Performance of Mixed Cation Perovskite Films—The Effect of Solution Stoichiometry on Crystallization", <i>Advanced Optical Materials</i>, 9(21), 20 August 2021, doi: <a href="https://doi.org/10.1002/adom.202100393">https://doi.org/10.1002/adom.202100393</a>.</p> |
|                                | <p><u>HOSSAIN Mohammad Ismail</u>, <u>SHAHIDUZZAMAN Md.</u>, <u>AHMED Safayet</u>, #<u>HUQE Md Rashedul</u>, <u>QARONY Wayesh</u>, <u>SALEQUE Ahmed Mortuza</u>, <u>AKHTARUZZAMAN Md.</u>, <u>KNIPP Dietmar</u>, <u>TSANG Yuen Hong</u>, <u>TAIMA Tetsuya</u>, <u>ZAPIEN Juan Antonio</u>, "Near field control for enhanced photovoltaic performance and photostability in perovskite solar cells", <i>Nano Energy</i>, 89, 31 July 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106388">https://doi.org/10.1016/j.nanoen.2021.106388</a>.</p>   |
|                                | <p><u>HOSSAIN Mohammad Ismail</u>, <u>SHAHIDUZZAMAN Md.</u>, <u>SALEQUE Ahmed Mortuza</u>, #<u>HUQE Md Rashedul</u>, <u>QARONY Wayesh</u>, <u>AHMED Safayet</u>, <u>AKHTARUZZAMAN Md.</u>, <u>KNIPP Dietmar</u>, <u>TSANG Yuen Hong</u>, <u>TAIMA Tetsuya</u>, <u>ZAPIEN Juan Antonio</u>, "Improved Nanophotonic Front Contact Design for High-Performance Perovskite Single-Junction and Perovskite/Perovskite Tandem Solar Cells", <i>Solar RRL</i>, 5(10), 01 September 2021, doi: <a href="https://doi.org/10.1002/solr.202100509">https://doi.org/10.1002/solr.202100509</a>.</p>   |
| <p><b>KANG Fangyuan</b></p>    | <p>#<u>KANG Fangyuan</u>, <u>YANG Jie</u>, <u>ZHANG Qichun</u>, "Recent progress in pyrazinacenes containing nonbenzenoid rings: synthesis, properties and applications", <i>Journal of Materials Chemistry C</i>, 10(7), 04 January 2022, pp 2475-2493, doi: <a href="https://doi.org/10.1039/d1tc04340d">https://doi.org/10.1039/d1tc04340d</a>.</p>  |
|                                | <p>XU Liang, LONG Xueting, #<u>KANG Fangyuan</u>, DENG Ziqi, HE Jiabin, YANG Sirui, WU Jieyu, YIN Lingfeng, JIANG Xiao-Fang, LU Fushen, LI Ming-De, <u>ZHANG Qichun</u>, "Simultaneously enhancing aggregation-induced emission and boosting two-photon absorption of perylene diimides through regioisomerization", <i>Journal of Materials Chemistry C</i>, 10(18), 30 March 2022, pp 7039-7048, doi: <a href="https://doi.org/10.1039/d2tc00663d">https://doi.org/10.1039/d2tc00663d</a>.</p>  |
|                                | <p><u>YANG Jie</u>, #<u>KANG Fangyuan</u>, #<u>WANG Xiang</u>, <u>ZHANG Qichun</u>, "Design strategies for improving the crystallinity of covalent organic frameworks and conjugated polymers: a review", <i>Materials Horizons</i>, 19 July 2021, doi: <a href="https://doi.org/10.1039/d1mh00809a">https://doi.org/10.1039/d1mh00809a</a>.</p>  |
| <p><b>KANG Xiaolin</b></p>     | <p>#<u>LAI Zhengxun</u>, <u>WANG Fei</u>, #<u>MENG You</u>, <u>BU Xiuming</u>, #<u>KANG Xiaolin</u>, #<u>QUAN Quan</u>, #<u>WANG Wei</u>, <u>LIU Chuntai</u>, <u>YIP Sen Po</u>, <u>HO Johnny Chung Yin</u>, "Superior Performance and Stability of 2D Dion-Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation", <i>Advanced Optical Materials</i>, 8(24), 04 October 2021, doi: <a href="https://doi.org/10.1002/adom.202101523">https://doi.org/10.1002/adom.202101523</a>.</p>  |
|                                | <p>#<u>KANG Xiaolin</u>, <u>YIP SenPo</u>, #<u>MENG You</u>, #<u>WANG Wei</u>, #<u>LI Dengji</u>, <u>LIU Chuntai</u>, <u>HO Johnny Chung Yin</u>, "High-performance electrically transduced hazardous gas sensors based on low-dimensional nanomaterials", <i>Nanoscale Advances</i>, 09 September 2021, doi: <a href="https://doi.org/10.1039/d1na00433f">https://doi.org/10.1039/d1na00433f</a>.</p>  |
|                                | <p>#<u>WANG Wei</u>, <u>YIP Sen Po</u>, #<u>MENG You</u>, #<u>WANG Weijun</u>, <u>WANG Fei</u>, <u>BU Xiuming</u>, #<u>LAI Zhengxun</u>, #<u>KANG Xiaolin</u>, #<u>XIE Pengshan</u>, #<u>QUAN Quan</u>, <u>LIU Chuntai</u>, <u>HO Johnny Chung Yin</u>, "Antimony-Rich GaAs<sub>2</sub>Sb<sub>1-x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i>, 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a>.</p>   |
|                                | <p>#<u>QUAN Quan</u>, <u>BU Xiuming</u>, #<u>CHEN Dong</u>, <u>WANG Fei</u>, #<u>KANG Xiaolin</u>, #<u>WANG Wei</u>, #<u>MENG You</u>, <u>YIP SenPo</u>, <u>LIU Chuntai</u>, <u>HO Johnny Chung Yin</u>, "Sequential self-reconstruction of localized Mo species in hierarchical carbon/Co-Mo oxide heterostructures for boosting alkaline hydrogen evolution kinetics and durability", <i>Journal of Materials Chemistry A</i>, 15 December 2021, doi: <a href="https://doi.org/10.1039/d1ta09010k">https://doi.org/10.1039/d1ta09010k</a>.</p>  |

## Section A: Publications of PhD Students

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|                     | <p>#WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS<sub>2</sub> Heterojunctions", <i>ACS Nano</i>, 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a>.</p>   |
|                     | <p>#LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, YIP Sen Po, LIU Chuntai, HO Johnny Chung Yin, "Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability", <i>Science China Materials</i>, 65(5), 20 December 2021, pp 1313–1319, doi: <a href="https://doi.org/10.1007/s40843-021-1900-7">https://doi.org/10.1007/s40843-021-1900-7</a>.</p>   |
|                     | <p>LAN Changyong, ZHANG Rui, WU Haolun, WEN Shaofeng, ZOU Ruisen, #KANG Xiaolin, LI Chun, HO Johnny Chung Yin, YIN Yi, LIU Yong, "Enhanced epitaxial growth of two-dimensional monolayer WS<sub>2</sub> film with large single domains", <i>Applied Materials Today</i>, 25, 04 November 2021, doi: <a href="https://doi.org/10.1016/j.apmt.2021.101234">https://doi.org/10.1016/j.apmt.2021.101234</a>.</p>   |
| <b>KHAN Bilawal</b> | <p>FAHEEM Muhammad Bilal, #KHAN Bilawal, FENG Chao, SUBHANI Waqas Siddique, MABROUK Sally, SAYYAD Muhammad Hassan, YILDIZ Abdullah, ZHANG Wen-Hua, QIAO Quinn, "Van der Waals Epitaxial Growth for High Performance Organic-Free Perovskite Solar Cell: Experimental and Theoretical Insights", <i>Advanced Materials Interfaces</i>, 9(20), 13 June 2022, doi: <a href="https://doi.org/10.1002/admi.202200421">https://doi.org/10.1002/admi.202200421</a>.</p>   |
|                     | <p>AHMED Yameen, #KHAN Bilawal, BILAL FAHEEM M., HUANG Keqing, GAO Yuanji, YANG Junliang, "Organic additives in all-inorganic perovskite solar cells and modules: from moisture endurance to enhanced efficiency and operational stability", <i>Journal of Energy Chemistry</i>, 67, 25 October 2021, pp 361-390, doi: <a href="https://doi.org/10.1016/j.jechem.2021.09.047">https://doi.org/10.1016/j.jechem.2021.09.047</a>.</p>  |
|                     | <p>FAHEEM M. Bilal, #KHAN Bilawal, FENG Chao, #AHMED Syed Bilal, JIANG Jiexuan, REHMAN Mutee-Ur, SUBHANI W. S., FAROOQ M. U., NIE Jinlan, MAKHLOUF M. M., QIAO Quinn, "Synergistic Approach toward Erbium-Passivated Triple-Anion Organic-Free Perovskite Solar Cells with Excellent Performance for Agrivoltaics Application", <i>ACS Applied Materials and Interfaces</i>, 14(5), 31 January 2022, pp 6894-6905, doi: <a href="https://doi.org/10.1021/acssami.1c23476">https://doi.org/10.1021/acssami.1c23476</a>.</p> |
|                     | <p>FAHEEM M. Bilal, #KHAN Bilawal, HASHMI Jaweria Z., BANIYA Abiral, SUBHANI W. S., BOBBA Raja Sekhar, YILDIZ Abdullah, QIAO Quinn, "Insights from scalable fabrication to operational stability and industrial opportunities for perovskite solar cells and modules", <i>Cell Reports Physical Science</i>, 3(4), 30 March 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2022.100827">https://doi.org/10.1016/j.xcrp.2022.100827</a>.</p>  |
| <b>KONG Jing</b>    | <p>#KONG Jing, NAYAK S. K., CO K., NAYAK Sanjib, WU J., FETEIRA A., BEYER K. A., ALPAY S. P., PRAMANICK Abhijit, "Point defect induced incommensurate dipole moments in the KCa<sub>2</sub>Nb<sub>3</sub>O<sub>10</sub> Dion-Jacobson layered perovskite", <i>Physical Review B</i>, 104(22), 01 December 2021, doi: <a href="https://doi.org/10.1103/PhysRevB.104.224104">https://doi.org/10.1103/PhysRevB.104.224104</a>.</p>  |
|                     | <p>#CHO Sandar Htet, NAYAK Sanjib, MANJÓN-SANZ Alicia, LIU J., #KONG Jing, SØRENSEN D. R., MARLTON F., JØRGENSEN M. R V, PRAMANICK Abhijit, "Atomic structural mechanism for ferroelectric-antiferroelectric transformation in perovskite NaNbO<sub>3</sub>", <i>Physical Review B</i>, 105(17), 01 May 2022, doi: <a href="https://doi.org/10.1103/PhysRevB.105.174113">https://doi.org/10.1103/PhysRevB.105.174113</a>.</p>  |
|                     | <p>#KONG Jing, LI Lili, LIU Jue, MARLTON Frederick P., JØRGENSEN Mads Ry Vogel, PRAMANICK Abhijit, "A Local Atomic Mechanism for Monoclinic-Tetragonal Phase Boundary Creation in Li-Doped Na<sub>0.5</sub>K<sub>0.5</sub>NbO<sub>3</sub> Ferroelectric Solid Solution", <i>Inorganic Chemistry</i>, 61(10), 03 March 2022, pp 4335–4349, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c03501">https://doi.org/10.1021/acs.inorgchem.1c03501</a>.</p>  |
|                     | <p>MARLTON Frederick P., NAYAK Sanjib, #SARANGI Venkateshwarlu, #CHAN Ngai Hang, #KONG Jing, ZHANG Yuanpeng, TUCKER Matthew G., JØRGENSEN Mads Ry Vogel, PRAMANICK Abhijit, "Broad Distribution of Local Polar States Generates Large Electrothermal Properties in Pb-Free Relaxor Ferroelectrics", <i>Chemistry of Materials</i>, 33(22), 05 November 2021, pp 8844–8853, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c03066">https://doi.org/10.1021/acs.chemmater.1c03066</a>.</p>                             |

## Section A: Publications of PhD Students

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| <b>KONG Lingyan</b> | #WANG Maohuai, #KONG Lingyan, LU Xiaoqing, WU Lawrence, "Can charge-modulated metal-organic frameworks achieve high-performance CO <sub>2</sub> capture and separation over H <sub>2</sub> , N <sub>2</sub> , and CH <sub>4</sub> ?", <i>ChemSusChem</i> , 15(3), 07 December 2021, doi: <a href="https://doi.org/10.1002/cssc.202101674">https://doi.org/10.1002/cssc.202101674</a> .   |
|                     | #WANG Maohuai, #KONG Lingyan, LU Xiaoqing, WU Lawrence, "First-row transition metal embedded pyrazine-based graphynes as high-performance single atom catalysts for the CO <sub>2</sub> reduction reaction", <i>Journal of Materials Chemistry A</i> , 10(16), 14 March 2022, pp 9048-9058, doi: <a href="https://doi.org/10.1039/d2ta00654e">https://doi.org/10.1039/d2ta00654e</a> .   |
|                     | #KONG Lingyan, LIANG Xiongyi, #WANG Maohuai, WU Lawrence, "Theoretical Screening of Transition Metal-Embedded Ti <sub>2</sub> N for High-Efficiency Hydrogen Evolution Reaction", <i>ACS Sustainable Chemistry &amp; Engineering</i> , 10(13), 18 March 2022, pp 4152–4160, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c07741">https://doi.org/10.1021/acssuschemeng.1c07741</a> .   |
| <b>KONG Xin</b>     | #KONG Xin, LIU Guiyang, PENG Hui-Qing, XU Zian, #BU Shuyu, LIU Bin, ZHANG Wenjun, "Plasma-induced transformation: a new strategy to in situ engineer MOF-derived heterointerface for high-efficiency electrochemical hydrogen evolution", <i>Journal of Materials Chemistry A</i> , 10(12), 02 February 2022, pp 6596-6606, doi: <a href="https://doi.org/10.1039/d1ta10502g">https://doi.org/10.1039/d1ta10502g</a> .   |
| <b>LAI Zhengxun</b> | #CHEN Dong, #ZHANG Shaoce, BU Xiuming, #ZHANG Rong, #QUAN Quan, #LAI Zhengxun, #WANG Wei, #MENG You, #YIN Di, YIP Sen Po, LIU Chuntai, ZHI Chunyi, HO Johnny Chung Yin, "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i> , 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a> .                                   |
|                     | #WANG Weijun, #MENG You, #WANG Wei, #ZHANG Zhuomin, #XIE Pengshan, #LAI Zhengxun, BU Xiuming, #LI Yezhan, LIU Chuntai, YANG Zhengbao, YIP Sen Po, HO Johnny Chung Yin, "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi <sub>2</sub> O <sub>2</sub> Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i> , 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a> .                  |
|                     | #LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #CHEN Dong, #LI Dengji, #WANG Wei, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Drop-Casting Halide Microcrystals Enabled by Green Glycol Solvent for High-Performance Photodetectors", <i>Advanced Photonics Research</i> , 29 May 2022, doi: <a href="https://doi.org/10.1002/adpr.202200041">https://doi.org/10.1002/adpr.202200041</a> .   |
|                     | #LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Superior Performance and Stability of 2D Dion-Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation", <i>Advanced Optical Materials</i> , 8(24), 04 October 2021, doi: <a href="https://doi.org/10.1002/adom.202101523">https://doi.org/10.1002/adom.202101523</a> .  |
|                     | #WANG Wei, YIP Sen Po, #MENG You, #WANG Weijun, WANG Fei, BU Xiuming, #LAI Zhengxun, #KANG Xiaolin, #XIE Pengshan, #QUAN Quan, LIU Chuntai, HO Johnny Chung Yin, "Antimony-Rich GaAs <sub>x</sub> Sb <sub>1-x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i> , 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a> .      |
|                     | #LAI Zhengxun, #MENG You, WANG Fei, BU Xiuming, #WANG Wei, #XIE Pengshan, #WANG Weijun, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors", <i>Nano Research</i> , 10 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-3907-9">https://doi.org/10.1007/s12274-021-3907-9</a> .   |
|                     | BU Xiuming, LIANG Xiongyi, BU Yu, #QUAN Quan, #MENG You, #LAI Zhengxun, #WANG Wei, LIU Chuntai, LU Jian, WU Lawrence, HO Johnny Chung Yin, "NiMo@C <sub>3</sub> N <sub>5</sub> heterostructures with multiple electronic transmission channels for highly efficient hydrogen evolution from alkaline electrolytes and seawater", <i>Chemical Engineering Journal</i> , 438, 22 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135379">https://doi.org/10.1016/j.cej.2022.135379</a> . |
|                     | #WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS <sub>2</sub> Heterojunctions", <i>ACS Nano</i> , 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a> .   |

Section A: Publications of PhD Students

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|          | <p>#SHIL Sujit Kumer, WANG Fei, EGBO Kingsley Onyekachi, #LAI Zhengxun, WANG Ying, WANG Yunpeng, ZHAO Dongxu, TSANG Sai Wing, HO Johnny Chung Yin, YU Kin Man, "Two-Step Chemical Vapor Deposition-Synthesized Lead-Free All-Inorganic Cs<sub>3</sub>Sb<sub>2</sub>Br<sub>9</sub> Perovskite Microplates for Optoelectronic Applications", <i>ACS Applied Materials and Interfaces</i>, 13(30), 21 July 2021, doi: <a href="https://doi.org/10.1021/acsami.1c07839">https://doi.org/10.1021/acsami.1c07839</a>.</p> |
|          | <p>#LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, YIP Sen Po, LIU Chuntai, HO Johnny Chung Yin, "Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability", <i>Science China Materials</i>, 65(5), 20 December 2021, pp 1313–1319, doi: <a href="https://doi.org/10.1007/s40843-021-1900-7">https://doi.org/10.1007/s40843-021-1900-7</a>.</p>  |
|          | <p>#XIE Pengshan, HUANG Yulong, #WANG Wei, #MENG You, #LAI Zhengxun, WANG Fei, YIP Sen Po, BU Xiuming, #WANG Weijun, #LI Dengji, SUN Jia, HO Johnny Chung Yin, "Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses", <i>Nano Energy</i>, 91, 26 October 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106654">https://doi.org/10.1016/j.nanoen.2021.106654</a>.</p>  |
|          | <p>WANG Yunpeng, WANG Fei, ZHU Gangbei, #QUAN Quan, #LAI Zhengxun, #MENG You, FAN Yi, YIP SenPo, ZHAO Dongxu, HO Johnny Chung Yin, "Deconvoluting the energy transport mechanisms in all-inorganic CsPb<sub>2</sub>Br<sub>5</sub>/CsPbBr<sub>3</sub> perovskite composite systems", <i>APL Materials</i>, 10(3), 03 March 2022, doi: <a href="https://doi.org/10.1063/5.0083022">https://doi.org/10.1063/5.0083022</a>.</p>   |
| LI Bo    | <p>#SHEN Junda, DU Peng, ZHOU Binbin, ZHANG Guobin, #TANG Xinxue, #PAN Jie, #LI Bo, #ZHANG Jingyang, LU Jian, LI Yangyang, "An anti-freezing biomineral hydrogel of high strain sensitivity for artificial skin applications", <i>Nano Research</i>, 15(7), 22 March 2022, pp 6655–6661, doi: <a href="https://doi.org/10.1007/s12274-022-4213-x">https://doi.org/10.1007/s12274-022-4213-x</a>.</p>  |
|          | <p>#LI Bo, #LIU Jiahua, LYU Fucong, #DENG Zhiqin, #YI Bo, #DU Peng, YAO Xi, ZHU Guangyu, XU Zhengtao, LU Jian, LI Yangyang, "Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the Origin of Life", <i>Advanced Functional Materials</i>, 32(13), 07 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202109302">https://doi.org/10.1002/adfm.202109302</a>.</p>   |
|          | <p>#LI Hongkun, #ZHONG Jing, #SHEN Junda, #LIU Jiahua, #LI Bo, #TANG Xinxue, #PAN Jie, XU Zhengtao, LU Jian, LI Yangyang, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945-2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p>  |
|          | <p>#LI Zhen, #WU Xin, #LI Bo, ZHANG Shoufeng, #GAO Danpeng, #LIU Yizhe, #LI Xintong, ZHANG Ningbin, HU Xiaotian, ZHI Chunyi, JEN Alex, ZHU Zonglong, "Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules", <i>Advanced Energy Materials</i>, 12(5), 22 December 2021, doi: <a href="https://doi.org/10.1002/aenm.202103236">https://doi.org/10.1002/aenm.202103236</a>.</p>  |
| LI Chuan | <p>#CHEN Ze, #LI Chuan, YANG Qi, WANG Donghong, #LI Xinliang, #HUANG Zhaodong, LIANG Guojin, #CHEN Ao, ZHI Chunyi, "Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries", <i>Advanced Materials</i>, 33(51), 06 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105426">https://doi.org/10.1002/adma.202105426</a>.</p>   |
|          | <p>#ZHANG Rong, #ZHANG Shaoce, #GUO Ying, #LI Chuan, #LIU Jiahua, #HUANG Zhaodong, #ZHAO Yuwei, LI Yangyang, ZHI Chunyi, "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt oxide nanotubes", <i>Energy &amp; Environmental Science</i>, 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a>.</p>   |
|          | <p>#YANG Shuo, #LI Chuan, LV Haiming, #GUO Xun, #WANG Yanbo, HAN Cuiping, ZHI Chunyi, LI Hongfei, "High-Rate Aqueous Aluminum-Ion Batteries Enabled by Confined Iodine Conversion Chemistry", <i>Small Methods</i>, 5(10), 05 September 2021, doi: <a href="https://doi.org/10.1002/smt.202100611">https://doi.org/10.1002/smt.202100611</a>.</p>   |
|          | <p>TU Wenqiang, WANG Xianshu, TIAN Wenying, ZHOU Yunan, HAN Cuiping, #LI Chuan, KANG Feiyu, LI Baohua, "A green water-induced spinel heterostructure interface enabling high performance lithium and manganese rich oxides", <i>Journal of Materials Chemistry A</i>, 9(36), 23 August 2021, pp 20576-20584, doi: <a href="https://doi.org/10.1039/d1ta04994a">https://doi.org/10.1039/d1ta04994a</a>.</p>  |



Section A: Publications of PhD Students

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|           | <p>LI Xuejin, TANG Yongchao, #LI Chuan, LV Haiming, FAN Haodong, WANG Wenlong, CAI Tonghui, CUI Yongpeng, XING Wei, YAN Zifeng, ZHI Chunyi, LI Hongfei, "Relieving hydrogen evolution and anodic corrosion of aqueous aluminum batteries with hybrid electrolytes", <i>Journal of Materials Chemistry A</i>, 10(9), 27 January 2022, pp 4739-4748, doi: <a href="https://doi.org/10.1039/d1ta10125k">https://doi.org/10.1039/d1ta10125k</a>.</p> <p>YANG Qi, #CHEN Ao, #LI Chuan, ZOU Gangsheng, LI Hongfei, ZHI Chunyi, "Categorizing wearable batteries: Unidirectional and omnidirectional deformable batteries", <i>Matter</i>, 4(10), 06 October 2021, pp 3146-3160, doi: <a href="https://doi.org/10.1016/j.matt.2021.07.016">https://doi.org/10.1016/j.matt.2021.07.016</a>.</p> <p>#LI Chuan, #LI Pei, #YANG Shuo, ZHI Chunyi, "Recently advances in flexible zinc ion batteries", <i>Journal of Semiconductors</i>, 42(10), October 2021, doi: <a href="https://doi.org/10.1088/1674-4926/42/10/101603">https://doi.org/10.1088/1674-4926/42/10/101603</a>.</p> <p>#LI Pei, #LI Xinliang, #GUO Ying, #LI Chuan, #HOU Yue, #CUI Huilin, #ZHANG Rong, #HUANG Zhaodong, #ZHAO Yuwei, #LI Qing, DONG Binbin, ZHI Chunyi, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p> <p>UD DIN Muhammad Aizaz, #LI Chuan, ZHANG Lihan, HAN Cuiping, LI Baohua, "Recent progress and challenges on the bismuth-based anode for sodium-ion batteries and potassium-ion batteries", <i>Materials Today Physics</i>, 21, 21 July 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100486">https://doi.org/10.1016/j.mtphys.2021.100486</a>.</p>   |
| LI Dan    | <p>CHEN Xufang, #LI Dan, WEN Ying, ZHANG Huan, LI Yang, NI Hongwei, "Favorable surface etching of NiRuFe(OH)<sub>x</sub> in neutral hydrogen evolution reaction", <i>Catalysis Today</i>, 400-401, 11 April 2022, pp 1-5, doi: <a href="https://doi.org/10.1016/j.cattod.2022.04.005">https://doi.org/10.1016/j.cattod.2022.04.005</a>.</p> <p>#LI Dan, #ZHANG Yuefeng, ZHOU Xiaomin, #HUANG Chao, WEN Ying, #LIU Liangliang, LI Qingwei, XU Yue, #WU Yuzheng, #RUAN Qingdong, MA Yinghe, XIONG Fangyu, #XIAO Dezhi, #LIU Pei, WANG Guomin, MEHRJOU Babak, WANG Bin, LI Hao, CHEN Rongsheng, NI Hongwei, ZENG Zhiyuan, CHU Paul Kim Ho, "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i>, 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a>.</p> <p>#HUANG Chao, QIN Ping, #LI Dan, #RUAN Qingdong, SONG Hao, #LIU Liangliang, #WU Yuzheng, MA Yinghe, LI Qingwei, HUO Kaifu, CHU Paul Kim Ho, "Origin of superior pseudocapacitive mechanism of transition metal nitrides", <i>Journal of Energy Chemistry</i>, 69, 03 February 2022, pp 561-568, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.041">https://doi.org/10.1016/j.jechem.2022.01.041</a>.</p> <p>CHEN Xufang, #LI Dan, LI Yang, ZHAN Weiting, #HUANG Chao, CHEN Rongsheng, WANG Wei, NI Hongwei, CHU Paul Kim Ho, "Short-brush NiFeO<sub>x</sub>H<sub>y</sub> films and the Pt derivative as high-performance electrode materials for efficient electrocatalytic water splitting", <i>Applied Surface Science</i>, 574, 28 October 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151636">https://doi.org/10.1016/j.apsusc.2021.151636</a>.</p> <p>#LIU Liangliang, #RUAN Qingdong, WU Zhongzhen, #LI Dan, #HUANG Chao, #WU Yuzheng, LI Tijun, WU Zhongcan, TIAN Xiubo, FU King Yu, CHU Paul Kim Ho, "Fabrication and cutting performance of CrAlN/CrAl multilayer coatings deposited by continuous high-power magnetron sputtering", <i>Ceramics International</i>, 48(10), 04 February 2022, pp 14528-14536, doi: <a href="https://doi.org/10.1016/j.ceramint.2022.01.346">https://doi.org/10.1016/j.ceramint.2022.01.346</a>.</p> |
| LI Dengji | <p>#LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #CHEN Dong, #LI Dengji, #WANG Wei, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Drop-Casting Halide Microcrystals Enabled by Green Glycol Solvent for High-Performance Photodetectors", <i>Advanced Photonics Research</i>, 29 May 2022, doi: <a href="https://doi.org/10.1002/adpr.202200041">https://doi.org/10.1002/adpr.202200041</a>.</p> <p>#KANG Xiaolin, YIP SenPo, #MENG You, #WANG Wei, #LI Dengji, LIU Chuntai, HO Johnny Chung Yin, "High-performance electrically transduced hazardous gas sensors based on low-dimensional nanomaterials", <i>Nanoscale Advances</i>, 09 September 2021, doi: <a href="https://doi.org/10.1039/d1na00433f">https://doi.org/10.1039/d1na00433f</a>.</p> <p>#WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS<sub>2</sub> Heterojunctions", <i>ACS Nano</i>, 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a>.</p>   |

Section A: Publications of PhD Students

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|                   | <p>#<a href="#">XIE Pengshan</a>, <a href="#">HUANG Yulong</a>, #<a href="#">WANG Wei</a>, #<a href="#">MENG You</a>, #<a href="#">LAI Zhengxun</a>, <a href="#">WANG Fei</a>, <a href="#">YIP Sen Po</a>, #<a href="#">BU Xiuming</a>, #<a href="#">WANG Weijun</a>, #<a href="#">LI Dengji</a>, <a href="#">SUN Jia</a>, <a href="#">HO Johnny Chung Yin</a>, "Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses", <i>Nano Energy</i>, 91, 26 October 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106654">https://doi.org/10.1016/j.nanoen.2021.106654</a>.</p>   |
| <b>LI Fengzhu</b> | <p>#<a href="#">DENG Xiang</a>, #<a href="#">QI Feng</a>, #<a href="#">LI Fengzhu</a>, <a href="#">WU Shengfan</a>, <a href="#">LIN Francis</a>, #<a href="#">ZHANG Zhuomin</a>, <a href="#">GUAN Zhiqiang</a>, <a href="#">YANG Zhengbao</a>, <a href="#">LEE Chun Sing</a>, <a href="#">JEN Alex</a>, "Co-assembled Monolayers as Hole-selective Contact for High-Performance Inverted Perovskite Solar Cells with Optimized Recombination Loss and Long-Term Stability", <i>Angewandte Chemie (International Edition)</i>, 12 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203088">https://doi.org/10.1002/anie.202203088</a>.</p>  |
|                   | <p>#<a href="#">WANG Deng</a>, <a href="#">GUO Hongling</a>, #<a href="#">WU Xin</a>, #<a href="#">DENG Xiang</a>, #<a href="#">LI Fengzhu</a>, #<a href="#">LI Zhen</a>, <a href="#">LIN Francis</a>, <a href="#">ZHU Zonglong</a>, <a href="#">ZHANG Yi</a>, <a href="#">XU Baomin</a>, <a href="#">JEN Alex</a>, "Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells", <i>Advanced Functional Materials</i>, 32(2), 04 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202107359">https://doi.org/10.1002/adfm.202107359</a>.</p>   |
|                   | <p>#<a href="#">LI Fengzhu</a>, <a href="#">JEN Alex</a>, "Interface Engineering in Solution-Processed Thin-Film Solar Cells", <i>Accounts of Materials Research</i>, 3(3), 28 February 2022, pp 272–282, doi: <a href="https://doi.org/10.1021/accountsmr.1c00169">https://doi.org/10.1021/accountsmr.1c00169</a>.</p>   |
|                   | <p><a href="#">CAI Ning</a>, #<a href="#">LI Fengzhu</a>, <a href="#">CHEN Yatong</a>, <a href="#">LUO Ruixi</a>, <a href="#">HU Tonghui</a>, <a href="#">LIN Francis</a>, <a href="#">YIU Shek Man Ken</a>, <a href="#">LIU Danjun</a>, <a href="#">LEI Dangyuan</a>, <a href="#">ZHU Zonglong</a>, <a href="#">JEN Alex</a>, "Synergistical Dipole–Dipole Interaction Induced Self-Assembly of Phenoxazine-Based Hole-Transporting Materials for Efficient and Stable Inverted Perovskite Solar Cells", <i>Angewandte Chemie - International Edition</i>, 60(37), 05 July 2021, pp 20437–20442, doi: <a href="https://doi.org/10.1002/anie.202107020">https://doi.org/10.1002/anie.202107020</a>.</p> |
|                   | <p>#<a href="#">LI Fengzhu</a>, <a href="#">LO Tsz Wing</a>, #<a href="#">DENG Xiang</a>, <a href="#">LI Siqi</a>, <a href="#">FAN Yulong</a>, <a href="#">LIN Francis</a>, <a href="#">CHENG Yuanhang</a>, <a href="#">ZHU Zonglong</a>, <a href="#">LEI Dangyuan</a>, <a href="#">JEN Alex</a>, "Plasmonic Local Heating Induced Strain Modulation for Enhanced Efficiency and Stability of Perovskite Solar Cells", <i>Advanced Energy Materials</i>, 12(19), 07 April 2022, doi: <a href="https://doi.org/10.1002/aenm.202200186">https://doi.org/10.1002/aenm.202200186</a>.</p>   |
|                   | <p>#<a href="#">DENG Xiang</a>, #<a href="#">LI Fengzhu</a>, #<a href="#">WANG Quan</a>, <a href="#">LIU Danjun</a>, <a href="#">LIN Francis</a>, <a href="#">SHEN Dong</a>, <a href="#">LEI Dangyuan</a>, <a href="#">PENG Yung-kang</a>, <a href="#">ZHU Zonglong</a>, <a href="#">JEN Alex</a>, "Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO<sub>2</sub> inorganic interlayer", <i>Matter</i>, 4(10), 06 September 2021, pp 3301–3312, doi: <a href="https://doi.org/10.1016/j.matt.2021.08.012">https://doi.org/10.1016/j.matt.2021.08.012</a>.</p>   |
| <b>LI Hongkun</b> | <p>#<a href="#">LI Hongkun</a>, #<a href="#">ZHONG Jing</a>, #<a href="#">SHEN Junda</a>, #<a href="#">LIU Jiahua</a>, #<a href="#">LI Bo</a>, #<a href="#">TANG Xinxue</a>, #<a href="#">PAN Jie</a>, <a href="#">XU Zhengtao</a>, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945–2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p>  |
| <b>LI Pei</b>     | <p>#<a href="#">HOU Yue</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LI Pei</a>, #<a href="#">WANG Yanbo</a>, <a href="#">ZHI Chunyi</a>, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i>, 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a>.</p>   |
|                   | <p>#<a href="#">LI Xinliang</a>, <a href="#">LI Mian</a>, <a href="#">LUO Kan</a>, #<a href="#">HOU Yue</a>, #<a href="#">LI Pei</a>, <a href="#">YANG Qi</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, #<a href="#">CHEN Ze</a>, <a href="#">DU Shiyu</a>, <a href="#">HUANG Qing</a>, <a href="#">ZHI Chunyi</a>, "Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti<sub>3</sub>C<sub>2</sub> MXenes", <i>ACS Nano</i>, 16(1), 28 December 2021, pp 813–822, doi: <a href="https://doi.org/10.1021/acsnano.1c08358">https://doi.org/10.1021/acsnano.1c08358</a>.</p>   |
|                   | <p>#<a href="#">ZHANG Rong</a>, #<a href="#">GUO Ying</a>, #<a href="#">ZHANG Shaoce</a>, #<a href="#">CHEN Dong</a>, #<a href="#">ZHAO Yuwei</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">MA Longtao</a>, #<a href="#">LI Pei</a>, <a href="#">YANG Qi</a>, <a href="#">LIANG Guojin</a>, <a href="#">ZHI Chunyi</a>, "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i>, 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a>.</p>  |
|                   | <p>#<a href="#">LI Chuan</a>, #<a href="#">LI Pei</a>, #<a href="#">YANG Shuo</a>, <a href="#">ZHI Chunyi</a>, "Recently advances in flexible zinc ion batteries", <i>Journal of Semiconductors</i>, 42(10), October 2021, doi: <a href="https://doi.org/10.1088/1674-4926/42/10/101603">https://doi.org/10.1088/1674-4926/42/10/101603</a>.</p>  |

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|                | <p>#<u>LI Xinliang</u>, WANG Yanlei, #<u>CHEN Ze</u>, #<u>LI Pei</u>, <u>LIANG Guojin</u>, #<u>HUANG Zhaodong</u>, <u>YANG Qi</u>, #<u>CHEN Ao</u>, #<u>CUI Huilin</u>, DONG Binbin, HE Hongyan, <u>ZHI Chunyi</u>, "Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery", <i>Angewandte Chemie - International Edition</i>, 61(9), 21 December 2021, doi: <a href="https://doi.org/10.1002/anie.202113576">https://doi.org/10.1002/anie.202113576</a>.</p>  |
|                | <p>#<u>LI Pei</u>, #<u>LI Xinliang</u>, #<u>GUO Ying</u>, #<u>LI Chuan</u>, #<u>HOU Yue</u>, #<u>CUI Huilin</u>, #<u>ZHANG Rong</u>, #<u>HUANG Zhaodong</u>, #<u>ZHAO Yuwei</u>, #<u>LI Qing</u>, DONG Binbin, <u>ZHI Chunyi</u>, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p> |
| <b>LI Qing</b> | <p>#<u>LI Qing</u>, #<u>CHEN Ao</u>, WANG Donghong, #<u>ZHAO Yuwei</u>, WANG Xiaoqi, JIN Xu, XIONG Bo, <u>ZHI Chunyi</u>, "Tailoring the metal electrode morphology via electrochemical protocol optimization for long-lasting aqueous zinc batteries", <i>Nature Communications</i>, 13, 27 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31461-7">https://doi.org/10.1038/s41467-022-31461-7</a>.</p>  |
|                | <p>#<u>LI Xinliang</u>, #<u>LI Qing</u>, #<u>HOU Yue</u>, <u>YANG Qi</u>, #<u>CHEN Ze</u>, #<u>HUANG Zhaodong</u>, <u>LIANG Guojin</u>, #<u>ZHAO Yuwei</u>, <u>MA Longtao</u>, LI Mian, HUANG Qing, <u>ZHI Chunyi</u>, "Toward a Practical Zn Powder Anode: Ti<sub>3</sub>C<sub>2</sub>Tx MXene as a Lattice-Match Electrons/Ions Redistributor", <i>ACS Nano</i>, 15(9), 03 September 2021, pp 14631–14642, doi: <a href="https://doi.org/10.1021/acsnano.1c04354">https://doi.org/10.1021/acsnano.1c04354</a>.</p>   |
|                | <p>#<u>LI Qing</u>, #<u>YAN Boxun</u>, WANG Donghong, <u>YANG Qi</u>, #<u>HUANG Zhaodong</u>, <u>FAN Jun</u>, <u>DAI Ming</u>, CHEN Wenshuai, <u>ZHI Chunyi</u>, "Mechanistic Study of Interfacial Modification for Stable Zn Anode Based on a Thin Separator", <i>Small</i>, 18(20), 15 April 2022, doi: <a href="https://doi.org/10.1002/sml.202201045">https://doi.org/10.1002/sml.202201045</a>.</p>   |
|                | <p>WANG Donghong, #<u>LI Qing</u>, YING Wang, HAN Cuiping, WANG Yu, #<u>ZHAO Yuwei</u>, LI Hongfei, <u>ZHI Chunyi</u>, "H<sub>2</sub>-Inhibited Organic Anodes for Fast and Long-Life Aqueous Aluminum Ion Batteries with a 3.5-Month Calendar Life", <i>Small</i>, 18(22), 06 May 2022, doi: <a href="https://doi.org/10.1002/sml.202200463">https://doi.org/10.1002/sml.202200463</a>.</p>   |
|                | <p>WANG Donghong, #<u>GUO Xun</u>, #<u>CHEN Ze</u>, #<u>ZHAO Yuwei</u>, #<u>LI Qing</u>, <u>ZHI Chunyi</u>, "Ionic Liquid Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries", <i>ACS Applied Materials &amp; Interfaces</i>, 14(23), 06 June 2022, pp 27287-27293, doi: <a href="https://doi.org/10.1021/acsmi.2c06793">https://doi.org/10.1021/acsmi.2c06793</a>.</p>  |
|                | <p>#<u>ZHAO Yuwei</u>, ZHU Yongbin, JIANG Feng, LI Yiyao, #<u>MENG You</u>, #<u>GUO Ying</u>, #<u>LI Qing</u>, #<u>HUANG Zhaodong</u>, #<u>ZHANG Shaoce</u>, #<u>ZHANG Rong</u>, HO Johnny Chung Yin, ZHANG Qianfan, LIU Weishu, <u>ZHI Chunyi</u>, "Vacancy Modulating Co<sub>3</sub>Sn<sub>2</sub>S<sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i>, 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a>.</p>           |
|                | <p>LIANG Peng, #<u>LI Qing</u>, CHEN Liming, TANG Zijie, LI Zhengtai, WANG Yao, TANG Yongchao, HAN Cuiping, LAN Zhongwen, <u>ZHI Chunyi</u>, LI Hongfei, "The magnetohydrodynamic effect enables a dendrite-free Zn anode in alkaline electrolytes", <i>Journal of Materials Chemistry A</i>, 10(22), 06 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02077g">https://doi.org/10.1039/d2ta02077g</a>.</p>   |
|                | <p>#<u>LI Qing</u>, WANG Donghong, #<u>YAN Boxun</u>, #<u>ZHAO Yuwei</u>, <u>FAN Jun</u>, <u>ZHI Chunyi</u>, "Dendrite Issues for Zinc Anodes in a Flexible Cell Configuration for Zinc-Based Wearable Energy-Storage Devices", <i>Angewandte Chemie (International Edition)</i>, 61(25), 28 March 2022, doi: <a href="https://doi.org/10.1002/anie.202202780">https://doi.org/10.1002/anie.202202780</a>.</p>   |
|                | <p><u>LIANG Guojin</u>, #<u>ZHU Jiaxiong</u>, #<u>YAN Boxun</u>, #<u>LI Qing</u>, #<u>CHEN Ao</u>, #<u>CHEN Ze</u>, WANG Xiaoqi, XIONG Bo, <u>FAN Jun</u>, XU Jin, <u>ZHI Chunyi</u>, "Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry", <i>Energy &amp; Environmental Science</i>, 15(3), 03 February 2022, pp 1086–1096, doi: <a href="https://doi.org/10.1039/d1ee03749h">https://doi.org/10.1039/d1ee03749h</a>.</p>   |
|                | <p>WANG Donghong, #<u>LI Qing</u>, #<u>ZHAO Yuwei</u>, #<u>HONG Hu</u>, LI Hongfei, #<u>HUANG Zhaodong</u>, <u>LIANG Guojin</u>, <u>YANG Qi</u>, <u>ZHI Chunyi</u>, "Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation", <i>Advanced Energy Materials</i>, 12(9), 17 January 2022, doi: <a href="https://doi.org/10.1002/aenm.202102707">https://doi.org/10.1002/aenm.202102707</a>.</p>  |
|                | <p>#<u>ZHAO Yuwei</u>, LU Yue, LI Huiping, ZHU Yongbin, #<u>MENG You</u>, <u>LI Na</u>, WANG Donghong, JIANG Feng, <u>MO Funian</u>, LONG Changbai, #<u>GUO Ying</u>, #<u>LI Xinliang</u>, #<u>HUANG Zhaodong</u>, #<u>LI Qing</u>, HO Johnny Chung Yin, <u>FAN Jun</u>, SUI Manling, <u>CHEN Fu-Rong</u>, ZHU Wenguang, LIU Weishu, <u>ZHI Chunyi</u>, "Few-layer bismuth selenide cathode for low-temperature</p>  |

Section A: Publications of PhD Students

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|                    | quasi-solid-state aqueous zinc metal batteries", <i>Nature Communications</i> , 13, 08 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28380-y">https://doi.org/10.1038/s41467-022-28380-y</a> .   |
|                    | # <a href="#">ZHAO Yuwei</a> , <a href="#">JIANG Feng</a> , # <a href="#">HONG Hu</a> , <a href="#">WANG Donghong</a> , # <a href="#">LI Qing</a> , # <a href="#">MENG You</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">GUO Ying</a> , # <a href="#">LI Xinliang</a> , # <a href="#">CHEN Ao</a> , # <a href="#">ZHANG Rong</a> , # <a href="#">ZHANG Shaoce</a> , <a href="#">HO Johnny Chung Yin</a> , <a href="#">YAO Zhenpeng</a> , <a href="#">LIU Weishu</a> , <a href="#">ZHI Chunyi</a> , "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i> , 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a> . |
|                    | # <a href="#">LI Pei</a> , # <a href="#">LI Xinliang</a> , # <a href="#">GUO Ying</a> , # <a href="#">LI Chuan</a> , # <a href="#">HOU Yue</a> , # <a href="#">CUI Huilin</a> , # <a href="#">ZHANG Rong</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">ZHAO Yuwei</a> , # <a href="#">LI Qing</a> , <a href="#">DONG Binbin</a> , <a href="#">ZHI Chunyi</a> , "Highly Thermally/Electrochemically Stable I <sup>-</sup> /I <sub>3</sub> <sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I <sub>2</sub> Batteries", <i>Advanced Energy Materials</i> , 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a> .  |
| <b>LI Wanpeng</b>  | <a href="#">DU X. H.</a> , <a href="#">GAI Y. H.</a> , # <a href="#">LI Wanpeng</a> , # <a href="#">CHOU Tzu Hsiu</a> , <a href="#">HUANG Chih-Ching</a> , <a href="#">SHI C. X.</a> , <a href="#">DUAN G. S.</a> , <a href="#">WU B. L.</a> , "Superb strengthening behavior in a precipitation strengthened Co-rich CoCrNiAlTi medium entropy alloy with acceptable ductility", <i>Intermetallics</i> , 146, 29 April 2022, doi: <a href="https://doi.org/10.1016/j.intermet.2022.107582">https://doi.org/10.1016/j.intermet.2022.107582</a> .   |
|                    | <a href="#">ZHAO Zi J.</a> , # <a href="#">LI Wanpeng</a> , # <a href="#">CHEN Yen Hsiang</a> , <a href="#">LIU Xin Y.</a> , # <a href="#">CHOU Tzu Hsiu</a> , <a href="#">WANG Xu</a> , <a href="#">HUANG Chih-Ching</a> , <a href="#">WU Ming</a> , "Effect of high temperature oxidation on dealloying mechanism of Ag-Cu alloy", <i>Journal of Alloys and Compounds</i> , 896, 30 November 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.163007">https://doi.org/10.1016/j.jallcom.2021.163007</a> .  |
|                    | <a href="#">JIN Chengyan</a> , <a href="#">DU Xinghao</a> , <a href="#">YAN Fei</a> , <a href="#">SHI Chuanxin</a> , <a href="#">GAI Yehu</a> , <a href="#">HUANG Chih-Ching</a> , # <a href="#">LI Wanpeng</a> , <a href="#">WU Baolin</a> , <a href="#">DUAN Guosheng</a> , <a href="#">WANG Dapeng</a> , "铜镍合金的强韧化行为及其微观机制的研究进展", <i>材料导报</i> , 35(Z2), 25 November 2021, pp 372-375, 380.  |
|                    | # <a href="#">HUANG Jing</a> , # <a href="#">LI Wanpeng</a> , <a href="#">HE Junyang</a> , # <a href="#">ZHOU Rui</a> , # <a href="#">CHOU Tzu Hsiu</a> , <a href="#">YANG Tao</a> , <a href="#">LIU Chain Tsuan</a> , <a href="#">ZHANG Weidong</a> , <a href="#">LIU Yong</a> , <a href="#">HUANG Chih-Ching</a> , "Dual heterogeneous structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy", <i>Materials Research Letters</i> , 10(9), 03 May 2022, pp 575-584, doi: <a href="https://doi.org/10.1080/21663831.2022.2067790">https://doi.org/10.1080/21663831.2022.2067790</a> .   |
|                    | <a href="#">JIN Chengyan</a> , <a href="#">DU Xinghao</a> , # <a href="#">LI Wanpeng</a> , # <a href="#">CHEN Wenyu</a> , <a href="#">YAN Fei</a> , <a href="#">SHI Chuanxin</a> , # <a href="#">CHOU Tzu Hsiu</a> , <a href="#">HUANG Chih-Ching</a> , "Investigation on an anti-corrosion Cu-rich multiple-principal-element alloy strengthened and toughened by nano-scaled L1 <sub>2</sub> -type ordered particles", <i>International Journal of Materials Research</i> , 18 May 2022, doi: <a href="https://doi.org/10.1515/ijmr-2021-8677">https://doi.org/10.1515/ijmr-2021-8677</a> .  |
|                    | # <a href="#">CHEN Wenyu</a> , # <a href="#">CHEN Yen Hsiang</a> , # <a href="#">LI Wanpeng</a> , # <a href="#">ZHOU Rui</a> , # <a href="#">CHOU Tzu Hsiu</a> , <a href="#">WANG Xu</a> , <a href="#">HUANG Chih-Ching</a> , "Passivation evolution of Ti-Ta-Nb medium-entropy sputtered thin films in sulfuric acid solution", <i>Applied Surface Science</i> , 576(B), 10 November 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151824">https://doi.org/10.1016/j.apsusc.2021.151824</a> .   |
|                    | <a href="#">ZHAO Zijun</a> , # <a href="#">CHEN Wenyu</a> , # <a href="#">LI Wanpeng</a> , <a href="#">LIANG Xiaodong</a> , <a href="#">YAN Hao</a> , <a href="#">WANG Xu</a> , <a href="#">HUANG Chih-Ching</a> , <a href="#">WU Ming</a> , "Effects of pre-oxidation conditions on microstructure evolution and hydrogen evolution reaction performance of nano-porous Ag", <i>Journal of Materials Research and Technology</i> , 15, 21 September 2021, pp 2221-2226, doi: <a href="https://doi.org/10.1016/j.jmrt.2021.09.062">https://doi.org/10.1016/j.jmrt.2021.09.062</a> .  |
|                    | <a href="#">QU Xianlin</a> , <a href="#">ZHOU Chen</a> , <a href="#">LI Ang</a> , <a href="#">LI Wei</a> , # <a href="#">LI Wanpeng</a> , <a href="#">WANG Kaiwen</a> , <a href="#">ZHENG Kun</a> , "Atomic-Scale Observation of Unusual Dislocations in GaAs-GaAsSb Heterostructured Nanowires", <i>ACS Applied Materials and Interfaces</i> , 14(5), 25 January 2022, pp 7513-7521, doi: <a href="https://doi.org/10.1021/acsmi.1c24182">https://doi.org/10.1021/acsmi.1c24182</a> .   |
| <b>LI Xin</b>      | # <a href="#">LI Xin</a> , <a href="#">SHAN Guangcun</a> , <a href="#">SHEK Chan Hung</a> , "Machine learning prediction of magnetic properties of Fe-based metallic glasses considering glass forming ability", <i>Journal of Materials Science and Technology</i> , 103, 27 August 2021, pp 113-120, doi: <a href="https://doi.org/10.1016/j.jmst.2021.05.076">https://doi.org/10.1016/j.jmst.2021.05.076</a> .  |
| <b>LI Xinliang</b> | # <a href="#">LI Xinliang</a> , # <a href="#">WANG Shixun</a> , # <a href="#">WANG Tairan</a> , # <a href="#">DUAN Zonghui</a> , # <a href="#">HUANG Zhaodong</a> , <a href="#">LIANG Guojin</a> , <a href="#">FAN Jun</a> , <a href="#">YANG Cheng</a> , <a href="#">ROGACH Andrey</a> , <a href="#">ZHI Chunyi</a> , "Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion  |

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|---|
| <p>batteries", <i>Nano Energy</i>, 98, 14 April 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107278">https://doi.org/10.1016/j.nanoen.2022.107278</a>.</p>   |
| <p>#<a href="#">LI Xinliang</a>, #<a href="#">LI Qing</a>, #<a href="#">HOU Yue</a>, <a href="#">YANG Qi</a>, #<a href="#">CHEN Ze</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, #<a href="#">ZHAO Yuwei</a>, <a href="#">MA Longtao</a>, LI Mian, HUANG Qing, <a href="#">ZHI Chunyi</a>, "Toward a Practical Zn Powder Anode: Ti<sub>3</sub>C<sub>2</sub>Tx MXene as a Lattice-Match Electrons/Ions Redistributor", <i>ACS Nano</i>, 15(9), 03 September 2021, pp 14631–14642, doi: <a href="https://doi.org/10.1021/acsnano.1c04354">https://doi.org/10.1021/acsnano.1c04354</a>.</p>  |
| <p>#<a href="#">CHEN Ze</a>, #<a href="#">LI Chuan</a>, YANG Qi, WANG Donghong, #<a href="#">LI Xinliang</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, #<a href="#">CHEN Ao</a>, <a href="#">ZHI Chunyi</a>, "Conversion-Type Nonmetal Elemental Tellurium Anode with High Utilization for Mild/Alkaline Zinc Batteries", <i>Advanced Materials</i>, 33(51), 06 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105426">https://doi.org/10.1002/adma.202105426</a>.</p>   |
| <p>#<a href="#">CHEN Ze</a>, <a href="#">YANG Qi</a>, WANG Donghong, #<a href="#">CHEN Ao</a>, #<a href="#">LI Xinliang</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, WANG Ying, <a href="#">ZHI Chunyi</a>, "Tellurium: A High-Performance Cathode for Magnesium Ion Batteries Based on a Conversion Mechanism", <i>ACS Nano</i>, 16(4), 31 March 2022, pp 5349–5357, doi: <a href="https://doi.org/10.1021/acsnano.1c07939">https://doi.org/10.1021/acsnano.1c07939</a>.</p>  |
| <p>#<a href="#">LI Xinliang</a>, LI Minghang, LI Xin, FAN Xiaomeng, <a href="#">ZHI Chunyi</a>, "Low Infrared Emissivity and Strong Stealth of Ti-Based MXenes", <i>Research</i>, 2022, 23 May 2022, doi: <a href="https://doi.org/10.34133/2022/9892628">https://doi.org/10.34133/2022/9892628</a>.</p>  |
| <p>#<a href="#">LI Xinliang</a>, #<a href="#">MA Xinyao</a>, #<a href="#">HOU Yue</a>, ZHANG Zhenhua, LU Yue, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, LI Mian, <a href="#">YANG Qi</a>, MA Jiale, <a href="#">LI Na</a>, DONG Binbin, HUANG Qing, <a href="#">CHEN Fu-Rong</a>, <a href="#">FAN Jun</a>, <a href="#">ZHI Chunyi</a>, "Intrinsic voltage plateau of a Nb<sub>2</sub>CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning", <i>Joule</i>, 5(11), 11 October 2021, pp 2993-3005, doi: <a href="https://doi.org/10.1016/j.joule.2021.09.006">https://doi.org/10.1016/j.joule.2021.09.006</a>.</p>  |
| <p>#<a href="#">HOU Yue</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">CHEN Ze</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">LI Pei</a>, #<a href="#">WANG Yanbo</a>, <a href="#">ZHI Chunyi</a>, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i>, 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a>.</p>   |
| <p>#<a href="#">LI Xinliang</a>, #<a href="#">HUANG Zhaodong</a>, SHUCK Christopher E., <a href="#">LIANG Guojin</a>, GOGOTSI Yury, <a href="#">ZHI Chunyi</a>, "MXene chemistry, electrochemistry and energy storage applications", <i>Nature Reviews Chemistry</i>, 6(6), 20 April 2022, pp 389–404, doi: <a href="https://doi.org/10.1038/s41570-022-00384-8">https://doi.org/10.1038/s41570-022-00384-8</a>.</p>  |
| <p><a href="#">YANG Qi</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ze</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">ZHI Chunyi</a>, "Cathode Engineering for High Energy Density Aqueous Zn Batteries", <i>Accounts of Materials Research</i>, 3(1), 17 November 2021, pp 78-88, doi: <a href="https://doi.org/10.1021/accountsmr.1c00199">https://doi.org/10.1021/accountsmr.1c00199</a>.</p>   |
| <p>#<a href="#">LI Xinliang</a>, LI Mian, LUO Kan, #<a href="#">HOU Yue</a>, #<a href="#">LI Pei</a>, <a href="#">YANG Qi</a>, #<a href="#">HUANG Zhaodong</a>, <a href="#">LIANG Guojin</a>, #<a href="#">CHEN Ze</a>, DU Shiyu, HUANG Qing, <a href="#">ZHI Chunyi</a>, "Lattice Matching and Halogen Regulation for Synergistically Induced Uniform Zinc Electrodeposition by Halogenated Ti<sub>3</sub>C<sub>2</sub> MXenes", <i>ACS Nano</i>, 16(1), 28 December 2021, pp 813–822, doi: <a href="https://doi.org/10.1021/acsnano.1c08358">https://doi.org/10.1021/acsnano.1c08358</a>.</p>   |
| <p>#<a href="#">ZHAO Yuwei</a>, LU Yue, LI Huiping, ZHU Yongbin, #<a href="#">MENG You</a>, <a href="#">LI Na</a>, WANG Donghong, JIANG Feng, MO Funian, LONG Changbai, #<a href="#">GUO Ying</a>, #<a href="#">LI Xinliang</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">LI Qing</a>, HO Johnny Chung Yin, FAN Jun, SUI Manling, <a href="#">CHEN Fu-Rong</a>, ZHU Wenguang, LIU Weishu, <a href="#">ZHI Chunyi</a>, "Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries", <i>Nature Communications</i>, 13, 08 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28380-y">https://doi.org/10.1038/s41467-022-28380-y</a>.</p> |
| <p>#<a href="#">HUANG Zhaodong</a>, #<a href="#">WANG Tairan</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CUI Huilin</a>, <a href="#">LIANG Guojin</a>, <a href="#">YANG Qi</a>, #<a href="#">CHEN Ze</a>, #<a href="#">CHEN Ao</a>, #<a href="#">GUO Ying</a>, FAN Jun, <a href="#">ZHI Chunyi</a>, "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i>, 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a>.</p>   |
| <p><a href="#">YANG Qi</a>, LI Liang, HUSSAIN Tanveer, WANG Donghong, HUI Lan, #<a href="#">GUO Ying</a>, <a href="#">LIANG Guojin</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ze</a>, #<a href="#">HUANG Zhaodong</a>, LI Yongjun, XUE Yurui, ZUO Zicheng, QIU Jieshan, LI Yuliang, <a href="#">ZHI Chunyi</a>, "Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-Ion Batteries", <i>Angewandte Chemie - International Edition</i>, 61(6), 19 November 2021, doi: <a href="https://doi.org/10.1002/anie.202112304">https://doi.org/10.1002/anie.202112304</a>.</p>  |

## Section A: Publications of PhD Students

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|--------------|---|
|              | <p>#ZHAO Yuwei, JIANG Feng, #HONG Hu, WANG Donghong, #LI Qing, #MENG You, #HUANG Zhaodong, #GUO Ying, #LI Xinliang, #CHEN Ao, #ZHANG Rong, #ZHANG Shaoce, HO Johnny Chung Yin, YAO Zhenpeng, LIU Weishu, ZHI Chunyi, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i>, 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a>.</p> |
|              | <p>#LI Xinliang, WANG Yanlei, #CHEN Ze, #LI Pei, LIANG Guojin, #HUANG Zhaodong, YANG Qi, #CHEN Ao, #CUI Huilin, DONG Binbin, HE Hongyan, ZHI Chunyi, "Two-Electron Redox Chemistry Enabled High-Performance Iodide-Ion Conversion Battery", <i>Angewandte Chemie - International Edition</i>, 61(9), 21 December 2021, doi: <a href="https://doi.org/10.1002/anie.202113576">https://doi.org/10.1002/anie.202113576</a>.</p>  |
|              | <p>#LI Pei, #LI Xinliang, #GUO Ying, #LI Chuan, #HOU Yue, #CUI Huilin, #ZHANG Rong, #HUANG Zhaodong, #ZHAO Yuwei, #LI Qing, DONG Binbin, ZHI Chunyi, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p>   |
| LI Yezhan    | <p>#WANG Weijun, #MENG You, #WANG Wei, #ZHANG Zhuomin, #XIE Pengshan, #LAI Zhengxun, BU Xiuming, #LI Yezhan, LIU Chuntai, YANG Zhengbao, YIP Sen Po, HO Johnny Chung Yin, "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi<sub>2</sub>O<sub>2</sub>Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i>, 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a>.</p>  |
| LI Zhuo      | <p>#PORTNIAGIN Arsenii, NING Jijia, #WANG Shixun, #LI Zhuo, SERGEEV Aleksander A., KERSHAW Stephen Vincent, ZHONG Xiaoyan, ROGACH Andrey, "Monodisperse CuInS<sub>2</sub>/CdS and CuInZnS<sub>2</sub>/CdS Core-Shell Nanorods with a Strong Near-Infrared Emission", <i>Advanced Optical Materials</i>, 10(8), 27 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102590">https://doi.org/10.1002/adom.202102590</a>.</p>  |
| LIANG Bochun | <p>#LIANG Bochun, #MA Ninggui, #WANG Yuhang, #WANG Tairan, FAN Jun, "N-functionalized Ti<sub>2</sub>B MBene as high-performance anode materials for sodium-ion batteries: A DFT study", <i>Applied Surface Science</i>, 599, 10 June 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153927">https://doi.org/10.1016/j.apsusc.2022.153927</a>.</p>  |
|              | <p>#WANG Yuhang, #MA Ninggui, #LIANG Bochun, FAN Jun, "Exploring the potential of Ti<sub>2</sub>BT<sub>2</sub> (T = F, Cl, Br, I, O, S, Se and Te) monolayers as anode materials for lithium and sodium ion batteries", <i>Applied Surface Science</i>, 596, 13 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153619">https://doi.org/10.1016/j.apsusc.2022.153619</a>.</p>   |
|              | <p>#MA Ninggui, #WANG Yuhang, #ZHANG Yaqin, #LIANG Bochun, #ZHAO Jun, FAN Jun, "First-principles screening of Pt doped Ti<sub>2</sub>CNL (N = O, S and Se, L = F, Cl, Br and I) as high-performance catalysts for ORR/OER", <i>Applied Surface Science</i>, 596, 05 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153574">https://doi.org/10.1016/j.apsusc.2022.153574</a>.</p>   |
| LIU Jiahua   | <p>#LI Hongkun, #ZHONG Jing, #SHEN Junda, #LIU Jiahua, #LI Bo, #TANG Xinxue, #PAN Jie, XU Zhengtao, LU Jian, LI Yangyang, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945-2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p>  |
|              | <p>ZHOU Binbin, #ZHONG Jing, #TANG Xinxue, #LIU Jiahua, #SHEN Junda, WANG Chong, OU Weihui, WANG Hao, #LIU Lu, #PAN Jie, LU Jian, LI Yangyang, "In situ Surface-Enhanced Raman Spectroscopy Monitoring of Molecular Reorientation in Plasmon-Mediated Chemical Reactions", <i>Journal of Catalysis</i>, 413, 20 June 2022, pp 527-533, doi: <a href="https://doi.org/10.1016/j.jcat.2022.06.028">https://doi.org/10.1016/j.jcat.2022.06.028</a>.</p>  |
|              | <p>#ZHANG Rong, #ZHANG Shaoce, #GUO Ying, #LI Chuan, #LIU Jiahua, #HUANG Zhaodong, #ZHAO Yuwei, LI Yangyang, ZHI Chunyi, "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt oxide nanotubes", <i>Energy &amp; Environmental Science</i>, 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a>.</p>   |
|              | <p>#LI Bo, #LIU Jiahua, LYU Fucong, #DENG Zhiqin, #YI Bo, #DU Peng, YAO Xi, ZHU Guangyu, XU Zhengtao, LU Jian, LI Yangyang, "Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the</p>  |

Section A: Publications of PhD Students

|                   |   |
|-------------------|---|
|                   | Origin of Life", <i>Advanced Functional Materials</i> , 32(13), 07 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202109302">https://doi.org/10.1002/adfm.202109302</a> .  |
| <b>LIU Linlin</b> | # <a href="#">LIU Linlin</a> , <a href="#">LIANG Xiongyi</a> , <a href="#">QIU Guangyu</a> , # <a href="#">GUO Chen</a> , # <a href="#">CHAN Yau Kwan</a> , <a href="#">WU Lawrence</a> , "Self-Assembly Silver Nanoparticles Decorated on Gold Nanoislands for Label-Free Localized Surface Plasmon Resonance Biosensing", <i>Advanced Materials Interfaces</i> , 9(15), 10 April 2022, doi: <a href="https://doi.org/10.1002/admi.202200339">https://doi.org/10.1002/admi.202200339</a> .   |
|                   | # <a href="#">LIU Linlin</a> , <a href="#">THAKUR Abhimanyu</a> , # <a href="#">LI Wing Kar</a> , <a href="#">QIU Guangyu</a> , # <a href="#">YANG Tian</a> , # <a href="#">HE Bing</a> , <a href="#">LEE Youngjin</a> , <a href="#">WU Lawrence</a> , "Site specific biotinylated antibody functionalized Ag@AuNIs LSPR biosensor for the ultrasensitive detection of exosomal MCT4, a glioblastoma progression biomarker", <i>Chemical Engineering Journal</i> , 446(Part 4), 06 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137383">https://doi.org/10.1016/j.cej.2022.137383</a> .  |
|                   | <a href="#">MUSAH Jamal-Deen</a> , # <a href="#">LIU Linlin</a> , # <a href="#">GUO Chen</a> , <a href="#">NOVITSKII Andrei</a> , # <a href="#">ILYAS Abdul-mojeed Olabisi</a> , <a href="#">SERHIIENKO Illia</a> , <a href="#">KHOVAYLO Vladimir</a> , <a href="#">VELLAISAMY Arul Lenus Roy</a> , <a href="#">WU Lawrence</a> , "Enhanced Thermoelectric Performance of Bulk Bismuth Selenide: Synergistic Effect of Indium and Antimony Co-doping", <i>ACS Sustainable Chemistry and Engineering</i> , 10(12), 15 March 2022, pp 3862–3871, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c07256">https://doi.org/10.1021/acssuschemeng.1c07256</a> .   |
| <b>LIU Lu</b>     | <a href="#">ZHOU Binbin</a> , # <a href="#">ZHONG Jing</a> , # <a href="#">TANG Xinxue</a> , # <a href="#">LIU Jiahua</a> , # <a href="#">SHEN Junda</a> , <a href="#">WANG Chong</a> , <a href="#">OU Weihui</a> , <a href="#">WANG Hao</a> , # <a href="#">LIU Lu</a> , # <a href="#">PAN Jie</a> , <a href="#">LU Jian</a> , <a href="#">LI Yangyang</a> , "In situ Surface-Enhanced Raman Spectroscopy Monitoring of Molecular Reorientation in Plasmon-Mediated Chemical Reactions", <i>Journal of Catalysis</i> , 413, 20 June 2022, pp 527-533, doi: <a href="https://doi.org/10.1016/j.jcat.2022.06.028">https://doi.org/10.1016/j.jcat.2022.06.028</a> . |
|                   | # <a href="#">PAN Jie</a> , <a href="#">BAO Yan</a> , <a href="#">WANG Hao</a> , <a href="#">LYU Fucong</a> , # <a href="#">LIU Lu</a> , <a href="#">WANG Chong</a> , # <a href="#">TANG Xinxue</a> , <a href="#">LU Jian</a> , <a href="#">LI Yangyang</a> , "Amorphous High-Entropy Hydroxides of Tunable Wide Solar Absorption for Solar Water Evaporation", <i>Particle and Particle Systems Characterization</i> , 38(10), 02 September 2021, doi: <a href="https://doi.org/10.1002/ppsc.202100094">https://doi.org/10.1002/ppsc.202100094</a> .   |
| <b>LUO Jun</b>    | # <a href="#">HUANG Changxiong</a> , # <a href="#">ZHU Xiaohong</a> , <a href="#">LI Zhen</a> , # <a href="#">MA Xinyao</a> , <a href="#">LI Na</a> , # <a href="#">LUO Jun</a> , <a href="#">FAN Jun</a> , "Molecular insights into geometric and electrophoretic effects on DNA translocation speed through graphene nanoslit sensor", <i>Carbon</i> , 191, 04 February 2022, pp 415-423, doi: <a href="https://doi.org/10.1016/j.carbon.2022.01.068">https://doi.org/10.1016/j.carbon.2022.01.068</a> .  |
| <b>MA Ninggui</b> | # <a href="#">LIANG Bochun</a> , # <a href="#">MA Ninggui</a> , # <a href="#">WANG Yuhang</a> , # <a href="#">WANG Tairan</a> , <a href="#">FAN Jun</a> , "N-functionalized Ti <sub>2</sub> B MBene as high-performance anode materials for sodium-ion batteries: A DFT study", <i>Applied Surface Science</i> , 599, 10 June 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153927">https://doi.org/10.1016/j.apsusc.2022.153927</a> .  |
|                   | # <a href="#">WANG Yuhang</a> , # <a href="#">MA Ninggui</a> , # <a href="#">LIANG Bochun</a> , <a href="#">FAN Jun</a> , "Exploring the potential of Ti <sub>2</sub> BT <sub>2</sub> (T = F, Cl, Br, I, O, S, Se and Te) monolayers as anode materials for lithium and sodium ion batteries", <i>Applied Surface Science</i> , 596, 13 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153619">https://doi.org/10.1016/j.apsusc.2022.153619</a> .  |
|                   | # <a href="#">MA Ninggui</a> , <a href="#">LI Na</a> , # <a href="#">WANG Tairan</a> , # <a href="#">MA Xinyao</a> , <a href="#">FAN Jun</a> , "Strain engineering in the oxygen reduction reaction and oxygen evolution reaction catalyzed by Pt-doped Ti <sub>2</sub> CF <sub>2</sub> ", <i>Journal of Materials Chemistry A</i> , 10(3), 09 December 2021, pp 1390-1401, doi: <a href="https://doi.org/10.1039/d1ta07349d">https://doi.org/10.1039/d1ta07349d</a> .  |
|                   | # <a href="#">MA Ninggui</a> , # <a href="#">WANG Yuhang</a> , # <a href="#">ZHANG Yaqin</a> , # <a href="#">LIANG Bochun</a> , # <a href="#">ZHAO Jun</a> , <a href="#">FAN Jun</a> , "First-principles screening of Pt doped Ti <sub>2</sub> CN <sub>L</sub> (N = O, S and Se, L = F, Cl, Br and I) as high-performance catalysts for ORR/OER", <i>Applied Surface Science</i> , 596, 05 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153574">https://doi.org/10.1016/j.apsusc.2022.153574</a> .   |
|                   | # <a href="#">MA Ninggui</a> , <a href="#">LI Na</a> , # <a href="#">ZHANG Yaqin</a> , # <a href="#">WANG Tairan</a> , # <a href="#">ZHAO Jun</a> , <a href="#">FAN Jun</a> , "Strain adjustment Pt-doped Ti <sub>2</sub> CO <sub>2</sub> as an efficient bifunctional catalyst for oxygen reduction reactions and oxygen evolution reactions by first-principles calculations", <i>Applied Surface Science</i> , 590, 21 March 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153149">https://doi.org/10.1016/j.apsusc.2022.153149</a> .  |
|                   | # <a href="#">MA Ninggui</a> , # <a href="#">WANG Tairan</a> , <a href="#">LI Na</a> , <a href="#">LI Yiran</a> , <a href="#">FAN Jun</a> , "New phases of MBenes M <sub>2</sub> B (M = Sc, Ti, and V) as high-capacity electrode materials for rechargeable magnesium ion batteries", <i>Applied Surface Science</i> , 571, 14 September 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151275">https://doi.org/10.1016/j.apsusc.2021.151275</a> .  |

## Section A: Publications of PhD Students

|                        |   |
|------------------------|---|
| <b>MA Xinyao</b>       | #MA Xinyao, #ZHU Xiaohong, #HUANG Changxiong, FAN Jun, "Revealing the effects of terminal groups of MXene on the water desalination performance", <i>Journal of Membrane Science</i> , 647, 02 February 2022, doi: <a href="https://doi.org/10.1016/j.memsci.2022.120334">https://doi.org/10.1016/j.memsci.2022.120334</a> .  |
|                        | #HUANG Changxiong, #ZHU Xiaohong, LI Zhen, #MA Xinyao, LI Na, #LUO Jun, FAN Jun, "Molecular insights into geometric and electrophoretic effects on DNA translocation speed through graphene nanoslit sensor", <i>Carbon</i> , 191, 04 February 2022, pp 415-423, doi: <a href="https://doi.org/10.1016/j.carbon.2022.01.068">https://doi.org/10.1016/j.carbon.2022.01.068</a> .   |
|                        | #LI Xinliang, #MA Xinyao, #HOU Yue, ZHANG Zhenhua, LU Yue, #HUANG Zhaodong, LIANG Guojin, LI Mian, YANG Qi, MA Jiale, LI Na, DONG Binbin, HUANG Qing, CHEN Fu-Rong, FAN Jun, ZHI Chunyi, "Intrinsic voltage plateau of a Nb <sub>2</sub> CTx MXene cathode in an aqueous electrolyte induced by high-voltage scanning", <i>Joule</i> , 5(11), 11 October 2021, pp 2993-3005, doi: <a href="https://doi.org/10.1016/j.joule.2021.09.006">https://doi.org/10.1016/j.joule.2021.09.006</a> . |
|                        | #MA Ninggui, LI Na, #WANG Tairan, #MA Xinyao, FAN Jun, "Strain engineering in the oxygen reduction reaction and oxygen evolution reaction catalyzed by Pt-doped Ti <sub>2</sub> CF <sub>2</sub> ", <i>Journal of Materials Chemistry A</i> , 10(3), 09 December 2021, pp 1390-1401, doi: <a href="https://doi.org/10.1039/d1ta07349d">https://doi.org/10.1039/d1ta07349d</a> .  |
| <b>MA Xue</b>          | #MA Xue, #XU Yunkun, LI Siji, LO Tsz Wing, ZHANG Baolin, ROGACH Andrey, LEI Dangyuan, "A Flexible Plasmonic-Membrane-Enhanced Broadband Tin-Based Perovskite Photodetector", <i>Nano Letters</i> , 21(21), 21 October 2021, pp 9195-9202, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c03050">https://doi.org/10.1021/acs.nanolett.1c03050</a> .  |
|                        | #MA Xue, #FU Yang, #PORTNIAGIN Arsenii, YANG Ning, LIU Danjun, ROGACH Andrey, DAI Jian-Guo, LEI Dangyuan, "Effects of Stokes shift and Purcell enhancement on fluorescence-assisted radiative cooling", <i>Journal of Materials Chemistry A</i> , 24 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02259a">https://doi.org/10.1039/d2ta02259a</a> .   |
| <b>MAHADEVAN Sudhi</b> | WAN Peng, CHEN Xingtong, LIU Qi, #MAHADEVAN Sudhi, GUO Mingxuan, QIU Jinjing, SUN Xiaojuan, TSANG Sai Wing, ZHANG Maojie, LI Yongfang, CHEN Song, "Direct Observation of the Charge Transfer States from a Non-Fullerene Organic Solar Cell with a Small Driving Force", <i>Journal of Physical Chemistry Letters</i> , 12(43), 25 October 2021, pp 10595-10602, doi: <a href="https://doi.org/10.1021/acs.jpcclett.1c03365">https://doi.org/10.1021/acs.jpcclett.1c03365</a> .           |
|                        | ZHANG Chujun, #MAHADEVAN Sudhi, YUAN Jun, HO Johnny Ka Wai, GAO Yaxin, LIU Wei, ZHONG Hui, YAN He, ZOU Yingping, TSANG Sai Wing, SO Shu Kong, "Unraveling Urbach Tail Effects in High-Performance Organic Photovoltaics: Dynamic vs Static Disorder", <i>ACS Energy Letters</i> , 7(6), 16 May 2022, pp 1971-1979, doi: <a href="https://doi.org/10.1021/acsenergylett.2c00816">https://doi.org/10.1021/acsenergylett.2c00816</a> .   |
| <b>MAY -Zin-Hlaing</b> | #MAY -Zin-Hlaing, KARTHIKEYAN Vaithinathan, WU Wei, CHEN Baojie, NG Kung Bo, CHAN Chi Hou, DE SOUZA Maria Merlyne, VELLAISAMY Arul Lenus Roy, "3D Microstructured Frequency Selective Surface Based on Carbonized Polyimide Films for Terahertz Applications", <i>Advanced Optical Materials</i> , 10(8), 02 March 2022, doi: <a href="https://doi.org/10.1002/adom.202102178">https://doi.org/10.1002/adom.202102178</a> .   |
| <b>MEI Liang</b>       | YANG Ruijie, #MEI Liang, #ZHANG Qingyong, FAN Yingying, SHIN Hyeon Suk, VOIRY Damien, ZENG Zhiyuan, "High-yield production of mono- or few-layer transition metal dichalcogenide nanosheets by an electrochemical lithium ion intercalation-based exfoliation method", <i>Nature Protocols</i> , 17(2), 12 January 2022, pp 358–377, doi: <a href="https://doi.org/10.1038/s41596-021-00643-w">https://doi.org/10.1038/s41596-021-00643-w</a> .   |
|                        | #MEI Liang, CAO Zhonglin, #YING Ting, YANG Ruijie, PENG Huarong, WANG Gang, ZHENG Long, CHEN Ye, TANG Chuyang Y., VOIRY Damien, WANG Haihui, FARIMANI Amir Barati, ZENG Zhiyuan, "Simultaneous Electrochemical Exfoliation and Covalent Functionalization of MoS <sub>2</sub> Membrane for Ion Sieving", <i>Advanced Materials</i> , 22 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201416">https://doi.org/10.1002/adma.202201416</a> .                                    |
|                        | YANG Ruijie, #MEI Liang, FAN Yingying, #ZHANG Qingyong, ZHU Rongshu, AMAL Rose, YIN Zongyou, ZENG Zhiyuan, "ZnIn <sub>2</sub> S <sub>4</sub> -Based Photocatalysts for Energy and Environmental Applications", <i>Small Methods</i> , 5(10), 02 September 2021, doi: <a href="https://doi.org/10.1002/smt.202100887">https://doi.org/10.1002/smt.202100887</a> .  |
|                        | #ZHANG Qingyong, MA Jiale, #MEI Liang, LIU Jun, LI Zhenyu, LI Ju, ZENG Zhiyuan, "In situ TEM visualization of LiF nanosheet formation on the cathode-electrolyte interphase (CEI)   |



Section A: Publications of PhD Students

|   |   |
|---|---|
|   | in liquid-electrolyte lithium-ion batteries", <i>Matter</i> , 5(4), 07 February 2022, pp 1235-1250, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.015">https://doi.org/10.1016/j.matt.2022.01.015</a> .  |
| <b>MENG You</b>   | # <a href="#">CHEN Dong</a> , # <a href="#">ZHANG Shaoce</a> , <a href="#">BU Xiuming</a> , # <a href="#">ZHANG Rong</a> , # <a href="#">QUAN Quan</a> , # <a href="#">LAI Zhengxun</a> , # <a href="#">WANG Wei</a> , # <a href="#">MENG You</a> , # <a href="#">YIN Di</a> , YIP Sen Po, LIU Chuntai, <a href="#">ZHI Chunyi</a> , <a href="#">HO Johnny Chung Yin</a> , "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i> , 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a> .   |
|   | # <a href="#">WANG Weijun</a> , # <a href="#">MENG You</a> , # <a href="#">WANG Wei</a> , # <a href="#">ZHANG Zhuomin</a> , # <a href="#">XIE Pengshan</a> , # <a href="#">LAI Zhengxun</a> , <a href="#">BU Xiuming</a> , # <a href="#">LI Yezhan</a> , LIU Chuntai, <a href="#">YANG Zhengbao</a> , YIP Sen Po, <a href="#">HO Johnny Chung Yin</a> , "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi <sub>2</sub> O <sub>2</sub> Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i> , 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a> .  |
|   | # <a href="#">LAI Zhengxun</a> , <a href="#">WANG Fei</a> , # <a href="#">MENG You</a> , <a href="#">BU Xiuming</a> , # <a href="#">CHEN Dong</a> , # <a href="#">LI Dengji</a> , # <a href="#">WANG Wei</a> , LIU Chuntai, YIP Sen Po, <a href="#">HO Johnny Chung Yin</a> , "Drop-Casting Halide Microcrystals Enabled by Green Glycol Solvent for High-Performance Photodetectors", <i>Advanced Photonics Research</i> , 29 May 2022, doi: <a href="https://doi.org/10.1002/adpr.202200041">https://doi.org/10.1002/adpr.202200041</a> .   |
|   | # <a href="#">ZHAO Yuwei</a> , <a href="#">ZHU Yongbin</a> , <a href="#">JIANG Feng</a> , <a href="#">LI Yiyao</a> , # <a href="#">MENG You</a> , # <a href="#">GUO Ying</a> , # <a href="#">LI Qing</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">ZHANG Shaoce</a> , # <a href="#">ZHANG Rong</a> , <a href="#">HO Johnny Chung Yin</a> , <a href="#">ZHANG Qianfan</a> , <a href="#">LIU Weishu</a> , <a href="#">ZHI Chunyi</a> , "Vacancy Modulating Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i> , 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a> .   |
|   | # <a href="#">LAI Zhengxun</a> , <a href="#">WANG Fei</a> , # <a href="#">MENG You</a> , <a href="#">BU Xiuming</a> , # <a href="#">KANG Xiaolin</a> , # <a href="#">QUAN Quan</a> , # <a href="#">WANG Wei</a> , LIU Chuntai, YIP Sen Po, <a href="#">HO Johnny Chung Yin</a> , "Superior Performance and Stability of 2D Dion-Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation", <i>Advanced Optical Materials</i> , 8(24), 04 October 2021, doi: <a href="https://doi.org/10.1002/adom.202101523">https://doi.org/10.1002/adom.202101523</a> .  |
|   | # <a href="#">KANG Xiaolin</a> , YIP SenPo, # <a href="#">MENG You</a> , # <a href="#">WANG Wei</a> , # <a href="#">LI Dengji</a> , LIU Chuntai, <a href="#">HO Johnny Chung Yin</a> , "High-performance electrically transduced hazardous gas sensors based on low-dimensional nanomaterials", <i>Nanoscale Advances</i> , 09 September 2021, doi: <a href="https://doi.org/10.1039/d1na00433f">https://doi.org/10.1039/d1na00433f</a> .   |
|   | # <a href="#">WANG Wei</a> , YIP Sen Po, # <a href="#">MENG You</a> , # <a href="#">WANG Weijun</a> , <a href="#">WANG Fei</a> , <a href="#">BU Xiuming</a> , # <a href="#">LAI Zhengxun</a> , # <a href="#">KANG Xiaolin</a> , # <a href="#">XIE Pengshan</a> , # <a href="#">QUAN Quan</a> , LIU Chuntai, <a href="#">HO Johnny Chung Yin</a> , "Antimony-Rich GaAs <sub>3</sub> Sb <sub>1-x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i> , 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a> .  |
|   | # <a href="#">ZHAO Yuwei</a> , <a href="#">LU Yue</a> , <a href="#">LI Huiping</a> , <a href="#">ZHU Yongbin</a> , # <a href="#">MENG You</a> , <a href="#">LI Na</a> , <a href="#">WANG Donghong</a> , <a href="#">JIANG Feng</a> , <a href="#">MO Funian</a> , <a href="#">LONG Changbai</a> , # <a href="#">GUO Ying</a> , # <a href="#">LI Xinliang</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">LI Qing</a> , <a href="#">HO Johnny Chung Yin</a> , <a href="#">FAN Jun</a> , <a href="#">SUI Manling</a> , <a href="#">CHEN Fu-Rong</a> , <a href="#">ZHU Wenguang</a> , <a href="#">LIU Weishu</a> , <a href="#">ZHI Chunyi</a> , "Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries", <i>Nature Communications</i> , 13, 08 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28380-y">https://doi.org/10.1038/s41467-022-28380-y</a> . |
|   | # <a href="#">LAI Zhengxun</a> , # <a href="#">MENG You</a> , <a href="#">WANG Fei</a> , <a href="#">BU Xiuming</a> , # <a href="#">WANG Wei</a> , # <a href="#">XIE Pengshan</a> , # <a href="#">WANG Weijun</a> , LIU Chuntai, YIP Sen Po, <a href="#">HO Johnny Chung Yin</a> , "Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors", <i>Nano Research</i> , 10 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-3907-9">https://doi.org/10.1007/s12274-021-3907-9</a> .   |
|   | <a href="#">BU Xiuming</a> , <a href="#">LIANG Xiongji</a> , <a href="#">BU Yu</a> , # <a href="#">QUAN Quan</a> , # <a href="#">MENG You</a> , # <a href="#">LAI Zhengxun</a> , # <a href="#">WANG Wei</a> , LIU Chuntai, <a href="#">LU Jian</a> , <a href="#">WU Lawrence</a> , <a href="#">HO Johnny Chung Yin</a> , "NiMo@C <sub>3</sub> N <sub>5</sub> heterostructures with multiple electronic transmission channels for highly efficient hydrogen evolution from alkaline electrolytes and seawater", <i>Chemical Engineering Journal</i> , 438, 22 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135379">https://doi.org/10.1016/j.cej.2022.135379</a> .  |
| # <a href="#">QUAN Quan</a> , <a href="#">BU Xiuming</a> , # <a href="#">CHEN Dong</a> , <a href="#">WANG Fei</a> , # <a href="#">KANG Xiaolin</a> , # <a href="#">WANG Wei</a> , # <a href="#">MENG You</a> , YIP SenPo, LIU Chuntai, <a href="#">HO Johnny Chung Yin</a> , "Sequential self-reconstruction of localized Mo species in hierarchical carbon/Co-Mo oxide heterostructures for boosting alkaline hydrogen evolution kinetics and durability", |   |

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|-----------------------------------|--|
|                                   | <p><i>Journal of Materials Chemistry A</i>, 15 December 2021, doi: <a href="https://doi.org/10.1039/d1ta09010k">https://doi.org/10.1039/d1ta09010k</a>.</p> <p>#<a href="#">WANG Wei</a>, #<a href="#">WANG Weijun</a>, #<a href="#">MENG You</a>, #<a href="#">QUAN Quan</a>, #<a href="#">LAI Zhengxun</a>, #<a href="#">LI Dengji</a>, #<a href="#">XIE Pengshan</a>, YIP Sen Po, #<a href="#">KANG Xiaolin</a>, <a href="#">BU Xiuming</a>, #<a href="#">CHEN Dong</a>, LIU Chuntai, <a href="#">HO Johnny Chung Yin</a>, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS<sub>2</sub> Heterojunctions", <i>ACS Nano</i>, 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a>.</p> <p>#<a href="#">ZHAO Yuwei</a>, JIANG Feng, #<a href="#">HONG Hu</a>, WANG Donghong, #<a href="#">LI Qing</a>, #<a href="#">MENG You</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">GUO Ying</a>, #<a href="#">LI Xinliang</a>, #<a href="#">CHEN Ao</a>, #<a href="#">ZHANG Rong</a>, #<a href="#">ZHANG Shaoce</a>, <a href="#">HO Johnny Chung Yin</a>, YAO Zhenpeng, LIU Weishu, <a href="#">ZHI Chunyi</a>, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i>, 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a>.</p> <p>#<a href="#">MENG You</a>, YIP Sen Po, #<a href="#">WANG Wei</a>, LIU Chuntai, <a href="#">HO Johnny Chung Yin</a>, "Quantum Artificial Synapses", <i>Advanced Quantum Technologies</i>, 4(11), 05 September 2021, doi: <a href="https://doi.org/10.1002/qute.202100072">https://doi.org/10.1002/qute.202100072</a>.</p> <p>#<a href="#">LAI Zhengxun</a>, <a href="#">WANG Fei</a>, #<a href="#">MENG You</a>, <a href="#">BU Xiuming</a>, #<a href="#">KANG Xiaolin</a>, #<a href="#">QUAN Quan</a>, #<a href="#">WANG Wei</a>, YIP Sen Po, LIU Chuntai, <a href="#">HO Johnny Chung Yin</a>, "Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability", <i>Science China Materials</i>, 65(5), 20 December 2021, pp 1313–1319, doi: <a href="https://doi.org/10.1007/s40843-021-1900-7">https://doi.org/10.1007/s40843-021-1900-7</a>.</p> <p>#<a href="#">XIE Pengshan</a>, HUANG Yulong, #<a href="#">WANG Wei</a>, #<a href="#">MENG You</a>, #<a href="#">LAI Zhengxun</a>, <a href="#">WANG Fei</a>, YIP Sen Po, <a href="#">BU Xiuming</a>, #<a href="#">WANG Weijun</a>, #<a href="#">LI Dengji</a>, SUN Jia, <a href="#">HO Johnny Chung Yin</a>, "Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses", <i>Nano Energy</i>, 91, 26 October 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106654">https://doi.org/10.1016/j.nanoen.2021.106654</a>.</p> <p>WANG Yunpeng, <a href="#">WANG Fei</a>, ZHU Gangbei, #<a href="#">QUAN Quan</a>, #<a href="#">LAI Zhengxun</a>, #<a href="#">MENG You</a>, FAN Yi, YIP SenPo, ZHAO Dongxu, <a href="#">HO Johnny Chung Yin</a>, "Deconvoluting the energy transport mechanisms in all-inorganic CsPb<sub>2</sub>Br<sub>5</sub>/CsPbBr<sub>3</sub> perovskite composite systems", <i>APL Materials</i>, 10(3), 03 March 2022, doi: <a href="https://doi.org/10.1063/5.0083022">https://doi.org/10.1063/5.0083022</a>.</p> <p>ZHANG Kai, REN Zhihui, CAO Huichen, LI Lingling, WANG Ying, ZHANG Wei, LI Yubao, YANG Haitao, #<a href="#">MENG You</a>, <a href="#">HO Johnny Chung Yin</a>, WEI Zhongming, SHEN Guozhen, "Near-Infrared Polarimetric Image Sensors Based on Ordered Sulfur-Passivation GaSb Nanowire Arrays", <i>ACS Nano</i>, 16(5), 05 May 2022, pp 8128–8140, doi: <a href="https://doi.org/10.1021/acsnano.2c01455">https://doi.org/10.1021/acsnano.2c01455</a>.</p> |
| <b>OSMAN Amr Ali Abdelaty Ali</b> | <p>#<a href="#">OSMAN Amr Ali Abdelaty Ali</a>, ELHAKEEM Abdelmoty, KAYTBAY Saleh, AHMED Abdalla, "A comprehensive review on the thermal, electrical, and mechanical properties of graphene-based multi-functional epoxy composites", <i>Advanced Composites and Hybrid Materials</i>, 5(2), 15 March 2022, pp 547-605, doi: <a href="https://doi.org/10.1007/s42114-022-00423-4">https://doi.org/10.1007/s42114-022-00423-4</a>.</p>  |
| <b>PAN Jie</b>                    | <p>#<a href="#">SHEN Junda</a>, DU Peng, <a href="#">ZHOU Binbin</a>, <a href="#">ZHANG Guobin</a>, #<a href="#">TANG Xinxue</a>, #<a href="#">PAN Jie</a>, #<a href="#">LI Bo</a>, #<a href="#">ZHANG Jingyang</a>, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "An anti-freezing biomineral hydrogel of high strain sensitivity for artificial skin applications", <i>Nano Research</i>, 15(7), 22 March 2022, pp 6655–6661, doi: <a href="https://doi.org/10.1007/s12274-022-4213-x">https://doi.org/10.1007/s12274-022-4213-x</a>.</p> <p>#<a href="#">PAN Jie</a>, <a href="#">BAO Yan</a>, <a href="#">WANG Hao</a>, <a href="#">LYU Fucong</a>, #<a href="#">LIU Lu</a>, <a href="#">WANG Chong</a>, #<a href="#">TANG Xinxue</a>, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Amorphous High-Entropy Hydroxides of Tunable Wide Solar Absorption for Solar Water Evaporation", <i>Particle and Particle Systems Characterization</i>, 38(10), 02 September 2021, doi: <a href="https://doi.org/10.1002/ppsc.202100094">https://doi.org/10.1002/ppsc.202100094</a>.</p> <p><a href="#">WANG Hao</a>, <a href="#">BAO Yan</a>, #<a href="#">MAO Zhengyi</a>, #<a href="#">PAN Jie</a>, <a href="#">BIAN Haidong</a>, XU Zhengtao, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Supervariate Ceramics: Gelatinous and Monolithic Ceramics Fabricated under Ambient Conditions", <i>Advanced Engineering Materials</i>, 23(12), 06 September 2021, doi: <a href="https://doi.org/10.1002/adem.202100866">https://doi.org/10.1002/adem.202100866</a>.</p> <p>#<a href="#">LI Hongkun</a>, #<a href="#">ZHONG Jing</a>, #<a href="#">SHEN Junda</a>, #<a href="#">LIU Jiahua</a>, #<a href="#">LI Bo</a>, #<a href="#">TANG Xinxue</a>, #<a href="#">PAN Jie</a>, XU Zhengtao, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the</i></p>   |

## Section A: Publications of PhD Students

|                           |  |
|---------------------------|--|
|                           | <p><i>American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945-2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p> <p><u>ZHOU Binbin</u>, #ZHONG Jing, #TANG Xinxue, #LIU Jiahua, #SHEN Junda, <u>WANG Chong</u>, <u>OU Weihui</u>, <u>WANG Hao</u>, #LIU Lu, #PAN Jie, <u>LU Jian</u>, <u>LI Yangyang</u>, "In situ Surface-Enhanced Raman Spectroscopy Monitoring of Molecular Reorientation in Plasmon-Mediated Chemical Reactions", <i>Journal of Catalysis</i>, 413, 20 June 2022, pp 527-533, doi: <a href="https://doi.org/10.1016/j.jcat.2022.06.028">https://doi.org/10.1016/j.jcat.2022.06.028</a>.</p> <p>#MAO Zhengyi, #HUO Mengke, <u>LYU Fucong</u>, #ZHOU Yongsen, <u>BU Yu</u>, #WAN Lei, <u>PAN Lulu</u>, #PAN Jie, <u>LIU Hui</u>, <u>LU Jian</u>, "Nacre-liked material with tough and post-tunable mechanical properties", <i>Journal of Materials Science and Technology</i>, 114, 15 January 2022, pp 172-179, doi: <a href="https://doi.org/10.1016/j.jmst.2021.11.018">https://doi.org/10.1016/j.jmst.2021.11.018</a>.</p>  |
| <b>PORTNIAGIN Arsenii</b> | <p>#DUAN Zonghui, <u>NA Guangren</u>, #WANG Shixun, <u>NING Jiajia</u>, <u>XING Bangyu</u>, <u>HUANG Fei</u>, #PORTNIAGIN Arsenii, <u>KERSHAW Stephen Vincent</u>, <u>ZHANG Lijun</u>, <u>ROGACH Andrey</u>, "Proton Transfer-Driven Modification of 3D Hybrid Perovskites to Form Oriented 2D Ruddlesden-Popper Phases", <i>Small Science</i>, 2(3), 23 December 2021, doi: <a href="https://doi.org/10.1002/sssc.202100114">https://doi.org/10.1002/sssc.202100114</a>.</p> <p>#DUAN Zonghui, #WANG Shixun, #QI Jinsong, #PORTNIAGIN Arsenii, #DOERING Aaron, <u>KERSHAW Stephen Vincent</u>, <u>ROGACH Andrey</u>, "Highly Luminescent and Stable 2D/3D Octadecylammonium/Formamidinium Lead Bromide Perovskite Films", <i>Journal of Physical Chemistry C</i>, 125(31), 03 August 2021, pp 17501-17508, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04881">https://doi.org/10.1021/acs.jpcc.1c04881</a>.</p> <p>#MA Xue, #FU Yang, #PORTNIAGIN Arsenii, <u>YANG Ning</u>, <u>LIU Danjun</u>, <u>ROGACH Andrey</u>, <u>DAI Jian-Guo</u>, <u>LEI Dangyuan</u>, "Effects of Stokes shift and Purcell enhancement on fluorescence-assisted radiative cooling", <i>Journal of Materials Chemistry A</i>, 24 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02259a">https://doi.org/10.1039/d2ta02259a</a>.</p> <p>#PORTNIAGIN Arsenii, <u>NING Jiajia</u>, #WANG Shixun, #LI Zhuo, <u>SERGEEV Aleksander A.</u>, <u>KERSHAW Stephen Vincent</u>, <u>ZHONG Xiaoyan</u>, <u>ROGACH Andrey</u>, "Monodisperse CuInS<sub>2</sub>/CdS and CuInZnS<sub>2</sub>/CdS Core-Shell Nanorods with a Strong Near-Infrared Emission", <i>Advanced Optical Materials</i>, 10(8), 27 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102590">https://doi.org/10.1002/adom.202102590</a>.</p> <p><u>JIAO Mingxia</u>, #PORTNIAGIN Arsenii, <u>LUO Xiliang</u>, <u>JING Lihong</u>, <u>HAN Buxing</u>, <u>ROGACH Andrey</u>, "Semiconductor Nanocrystals Emitting in the Second Near-Infrared Window: Optical Properties and Application in Biomedical Imaging", <i>Advanced Optical Materials</i>, 10(14), 29 May 2022, doi: <a href="https://doi.org/10.1002/adom.202200226">https://doi.org/10.1002/adom.202200226</a>.</p> <p>#QI Jinsong, #WANG Shixun, #PORTNIAGIN Arsenii, <u>KERSHAW Stephen Vincent</u>, <u>ROGACH Andrey</u>, "Room temperature fabrication of stable, strongly luminescent Dion-Jacobson tin bromide perovskite microcrystals achieved through use of primary alcohols", <i>Nanomaterials</i>, 11(10), 16 October 2021, doi: <a href="https://doi.org/10.3390/nano11102738">https://doi.org/10.3390/nano11102738</a>.</p> |
| <b>QIN Xiaomeng</b>       | <p>#QIN Xiaomeng, <u>SHEK Chan Hung</u>, "Microstructure, Mechanical Properties, and High-Temperature Oxidation Behavior of Al<sub>0.3</sub>CoCrFeNiW<sub>x</sub> High Entropy Alloys", <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i>, 53(7), 09 May 2022, pp 2768-2779, doi: <a href="https://doi.org/10.1007/s11661-022-06706-1">https://doi.org/10.1007/s11661-022-06706-1</a>.</p>  |
| <b>QIU Caihao</b>         | <p>#QIU Caihao, <u>SU Yishi</u>, <u>YANG Jingyu</u>, <u>CHEN Boyang</u>, <u>KONG Lingti</u>, <u>OUYANG Qiubao</u>, <u>ZHANG Di</u>, "First-Principles Investigation of the Interfacial Stability, Precipitate Formation, and Mechanical Behavior of Al<sub>3</sub>Li/Al<sub>3</sub>Zr/Al Interfaces", <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i>, 53(4), 29 January 2022, pp 1308-1321, doi: <a href="https://doi.org/10.1007/s11661-022-06591-8">https://doi.org/10.1007/s11661-022-06591-8</a>.</p> <p><u>WANG Xiaoshu</u>, <u>SU Yishi</u>, #QIU Caihao, <u>ZHU Chengnan</u>, <u>WANG Xiaozhen</u>, <u>CAO He</u>, <u>ZHANG Di</u>, <u>OUYANG Qiubao</u>, "Mechanical behavior and interfacial micro-zones of SiCp(CNT) hybrid reinforced aluminum matrix composites", <i>Materials Characterization</i>, 189, 16 May 2022, doi: <a href="https://doi.org/10.1016/j.matchar.2022.111982">https://doi.org/10.1016/j.matchar.2022.111982</a>.</p>   |
| <b>QUAN Quan</b>          | <p>#CHEN Dong, #ZHANG Shaoce, <u>BU Xiuming</u>, #ZHANG Rong, #QUAN Quan, #LAI Zhengxun, #WANG Wei, #MENG You, #YIN Di, <u>YIP Sen Po</u>, <u>LIU Chuntai</u>, <u>ZHI Chunyi</u>, <u>HO Johnny Chung Yin</u>, "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i>, 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a>.</p>   |

Section A: Publications of PhD Students

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|                               | <p>#LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Superior Performance and Stability of 2D Dion-Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation", <i>Advanced Optical Materials</i>, 8(24), 04 October 2021, doi: <a href="https://doi.org/10.1002/adom.202101523">https://doi.org/10.1002/adom.202101523</a>.</p>   |
|                               | <p>#WANG Wei, YIP Sen Po, #MENG You, #WANG Weijun, WANG Fei, BU Xiuming, #LAI Zhengxun, #KANG Xiaolin, #XIE Pengshan, #QUAN Quan, LIU Chuntai, HO Johnny Chung Yin, "Antimony-Rich GaAs<sub>1-x</sub>Sb<sub>x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i>, 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a>.</p>      |
|                               | <p>#QUAN Quan, BU Xiuming, #CHEN Dong, WANG Fei, #KANG Xiaolin, #WANG Wei, #MENG You, YIP SenPo, LIU Chuntai, HO Johnny Chung Yin, "Sequential self-reconstruction of localized Mo species in hierarchical carbon/Co-Mo oxide heterostructures for boosting alkaline hydrogen evolution kinetics and durability", <i>Journal of Materials Chemistry A</i>, 15 December 2021, doi: <a href="https://doi.org/10.1039/d1ta09010k">https://doi.org/10.1039/d1ta09010k</a>.</p>                               |
|                               | <p>BU Xiuming, LIANG Xiongyi, BU Yu, #QUAN Quan, #MENG You, #LAI Zhengxun, #WANG Wei, LIU Chuntai, LU Jian, WU Lawrence, HO Johnny Chung Yin, "NiMo@C<sub>3</sub>N<sub>5</sub> heterostructures with multiple electronic transmission channels for highly efficient hydrogen evolution from alkaline electrolytes and seawater", <i>Chemical Engineering Journal</i>, 438, 22 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135379">https://doi.org/10.1016/j.cej.2022.135379</a>.</p> |
|                               | <p>#WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS<sub>2</sub> Heterojunctions", <i>ACS Nano</i>, 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a>.</p>   |
|                               | <p>#LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, YIP Sen Po, LIU Chuntai, HO Johnny Chung Yin, "Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability", <i>Science China Materials</i>, 65(5), 20 December 2021, pp 1313–1319, doi: <a href="https://doi.org/10.1007/s40843-021-1900-7">https://doi.org/10.1007/s40843-021-1900-7</a>.</p>   |
|                               | <p>WANG Yunpeng, WANG Fei, ZHU Gangbei, #QUAN Quan, #LAI Zhengxun, #MENG You, FAN Yi, YIP SenPo, ZHAO Dongxu, HO Johnny Chung Yin, "Deconvoluting the energy transport mechanisms in all-inorganic CsPb<sub>2</sub>Br<sub>5</sub>/CsPbBr<sub>3</sub> perovskite composite systems", <i>APL Materials</i>, 10(3), 03 March 2022, doi: <a href="https://doi.org/10.1063/5.0083022">https://doi.org/10.1063/5.0083022</a>.</p>  |
| <b>SARANGI Venkateshwarlu</b> | <p>MARLTON Frederick P., NAYAK Sanjib, #SARANGI Venkateshwarlu, #CHAN Ngai Hang, #KONG Jing, ZHANG Yuanpeng, TUCKER Matthew G., JØRGENSEN Mads Ry Vogel, PRAMANICK Abhijit, "Broad Distribution of Local Polar States Generates Large Electrothermal Properties in Pb-Free Relaxor Ferroelectrics", <i>Chemistry of Materials</i>, 33(22), 05 November 2021, pp 8844–8853, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c03066">https://doi.org/10.1021/acs.chemmater.1c03066</a>.</p>           |
| <b>SHEN Junda</b>             | <p>#SHEN Junda, DU Peng, ZHOU Binbin, ZHANG Guobin, #TANG Xinxue, #PAN Jie, #LI Bo, #ZHANG Jingyang, LU Jian, LI Yangyang, "An anti-freezing biomineral hydrogel of high strain sensitivity for artificial skin applications", <i>Nano Research</i>, 15(7), 22 March 2022, pp 6655–6661, doi: <a href="https://doi.org/10.1007/s12274-022-4213-x">https://doi.org/10.1007/s12274-022-4213-x</a>.</p>   |
|                               | <p>#LI Hongkun, #ZHONG Jing, #SHEN Junda, #LIU Jiahua, #LI Bo, #TANG Xinxue, #PAN Jie, XU Zhengtao, LU Jian, LI Yangyang, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945-2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p>   |
|                               | <p>#WANG Yanze, CHEN Bing, #ZHANG Xin, SUO Hao, ZHENG Weilin, #SHEN Junda, LI Yangyang, WANG Feng, "Doubly Doped BaZnOS Microcrystals for Multicolor Luminescence Switching", <i>Advanced Optical Materials</i>, 27 January 2022, doi: <a href="https://doi.org/10.1002/adom.202102430">https://doi.org/10.1002/adom.202102430</a>.</p>  |
|                               | <p>ZHOU Binbin, OU Weihui, #SHEN Junda, #ZHAO Chenghao, #ZHONG Jing, #DU Peng, BIAN Haidong, LI Pan, YANG Liangbao, LU Jian, LI Yangyang, "Controlling Plasmon-Aided</p>   |

Section A: Publications of PhD Students

|                                      |   |
|--------------------------------------|---|
|                                      | <p>Reduction of <i>p</i>-Nitrothiophenol by Tuning the Illumination Wavelength", <i>ACS Catalysis</i>, 11(24), 29 November 2021, pp 14898-14905, doi: <a href="https://doi.org/10.1021/acscatal.1c04091">https://doi.org/10.1021/acscatal.1c04091</a>.</p> <p>ZHOU Binbin, #ZHONG Jing, #TANG Xinxue, #LIU Jiahua, #SHEN Junda, WANG Chong, OU Weihui, WANG Hao, #LIU Lu, #PAN Jie, LU Jian, LI Yangyang, "In situ Surface-Enhanced Raman Spectroscopy Monitoring of Molecular Reorientation in Plasmon-Mediated Chemical Reactions", <i>Journal of Catalysis</i>, 413, 20 June 2022, pp 527-533, doi: <a href="https://doi.org/10.1016/j.jcat.2022.06.028">https://doi.org/10.1016/j.jcat.2022.06.028</a>.</p> <p>#LIU Yuanchao, ZHOU Binbin, WANG Weiliang, #SHEN Junda, KOU Weiping, LI Zebiao, ZHANG Deng, GUO Lianbo, LAU Condon, LU Jian, "Insertable, scabbarded, and nanoetched silver needle sensor for hazardous element depth profiling by laser-induced breakdown spectroscopy", <i>ACS Sensors</i>, 7(5), 18 May 2022, pp 1381–1389, doi: <a href="https://doi.org/10.1021/acssensors.2c00017">https://doi.org/10.1021/acssensors.2c00017</a>.</p>   |
| <b>SHENG Yujia</b>                   | <p>LIU Zhaojun, HYUN Byung-Ryool, #SHENG Yujia, LIN Chun-Jung, CHANGHU Mengyuan, LIN Yonghong, HO Chih-Hsiang, HE Jr-Hau, KUO Hao-Chung, "Micro-Light-Emitting Diodes Based on InGaN Materials with Quantum Dots", <i>Advanced Materials Technologies</i>, 7(6), 29 December 2021, doi: <a href="https://doi.org/10.1002/admt.202101189">https://doi.org/10.1002/admt.202101189</a>.</p>  |
| <b>SIN Ching Man</b>                 | <p>#FASASI Teslim Ayinde, #SIN Ching Man, LIU Taili, TSANG Sai Wing, RUOTOLO Antonio, "Effect of the magnetic order on the magneto-photocurrent of organo-metal halide perovskites", <i>Optical Materials</i>, 124, 05 February 2022, doi: <a href="https://doi.org/10.1016/j.optmat.2022.112011">https://doi.org/10.1016/j.optmat.2022.112011</a>.</p>   |
| <b>SONG Nan</b>                      | <p>#SONG Nan, LIU Songbin, ZHANG Peng, HE Junshan, ZHANG Qinyuan, WANG Feng, ZHOU Bo, "Enhancing upconversion of Nd<sup>3+</sup> through Yb<sup>3+</sup>-mediated energy cycling towards temperature sensing", <i>Journal of Rare Earths</i>, 39(12), 07 July 2021, pp 1506-1511, doi: <a href="https://doi.org/10.1016/j.jre.2021.06.013">https://doi.org/10.1016/j.jre.2021.06.013</a>.</p>   |
| <b>TANG Xinxue</b>                   | <p>#SHEN Junda, DU Peng, ZHOU Binbin, ZHANG Guobin, #TANG Xinxue, #PAN Jie, #LI Bo, #ZHANG Jingyang, LU Jian, LI Yangyang, "An anti-freezing biomineral hydrogel of high strain sensitivity for artificial skin applications", <i>Nano Research</i>, 15(7), 22 March 2022, pp 6655–6661, doi: <a href="https://doi.org/10.1007/s12274-022-4213-x">https://doi.org/10.1007/s12274-022-4213-x</a>.</p> <p>#LI Hongkun, #ZHONG Jing, #SHEN Junda, #LIU Jiahua, #LI Bo, #TANG Xinxue, #PAN Jie, XU Zhengtao, LU Jian, LI Yangyang, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945-2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p> <p>#TANG Xinxue, ZHU Xuguang, XU Huilong, SUN Hao, HAN Xiang'en, LI Qun, ZHOU Binbin, NI Zhonghai, "Hydrogen-bond activated ESIPT in naphthalimide-based fluorescent probe for sensing volatile amines", <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i>, 281, 28 June 2022, doi: <a href="https://doi.org/10.1016/j.saa.2022.121567">https://doi.org/10.1016/j.saa.2022.121567</a>.</p> <p>ZHOU Binbin, #ZHONG Jing, #TANG Xinxue, #LIU Jiahua, #SHEN Junda, WANG Chong, OU Weihui, WANG Hao, #LIU Lu, #PAN Jie, LU Jian, LI Yangyang, "In situ Surface-Enhanced Raman Spectroscopy Monitoring of Molecular Reorientation in Plasmon-Mediated Chemical Reactions", <i>Journal of Catalysis</i>, 413, 20 June 2022, pp 527-533, doi: <a href="https://doi.org/10.1016/j.jcat.2022.06.028">https://doi.org/10.1016/j.jcat.2022.06.028</a>.</p> <p>#PAN Jie, BAO Yan, WANG Hao, LYU Fucong, #LIU Lu, WANG Chong, #TANG Xinxue, LU Jian, LI Yangyang, "Amorphous High-Entropy Hydroxides of Tunable Wide Solar Absorption for Solar Water Evaporation", <i>Particle and Particle Systems Characterization</i>, 38(10), 02 September 2021, doi: <a href="https://doi.org/10.1002/ppsc.202100094">https://doi.org/10.1002/ppsc.202100094</a>.</p> |
| <b>VASKURI Chandra Sekhara Theja</b> | <p>#VASKURI Chandra Sekhara Theja, KARTHIKEYAN Vaithinathan, YEUNG Chi Chung, VENKATESH Shishir, NAYAK Sanjib, VELLAISAMY Arul Lenus Roy, "Amorphous carbon nano-inclusions for strategical enhancement of thermoelectric performance in Earth-abundant Cu<sub>3</sub>SbS<sub>4</sub>", <i>Journal of Alloys and Compounds</i>, 900, 28 December 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.163433">https://doi.org/10.1016/j.jallcom.2021.163433</a>.</p> <p>KARTHIKEYAN Vaithinathan, SAW Lin Oo, #SURJADI James Utama, #LI Xiaocui, #VASKURI Chandra Sekhara Theja, KANNAN Venkataraman, LAU Siu Chuen, LU Yang, LAM Kwok-Ho, VELLAISAMY Arul Lenus Roy, "Defect Engineering Boosted Ultrahigh Thermoelectric Power Conversion Efficiency in Polycrystalline SnSe", <i>ACS Applied Materials and</i></p>   |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | <p><i>Interfaces</i>, 13(49), 01 December 2021, pp 58701–58711, doi: <a href="https://doi.org/10.1021/acsami.1c18194">https://doi.org/10.1021/acsami.1c18194</a>.</p> <p><u>KARTHIKEYAN Vaithinathan</u>, <u>#VASKURI Chandra Sekhara Theja</u>, DE SOUZA Maria Merlyne, VELLAISAMY Arul Lenus Roy, "Hierarchically Interlaced 2D Copper Iodide/MXene Composite for High Thermoelectric Performance", <i>Physica Status Solidi - Rapid Research Letters</i>, 16(1), 01 September 2021, doi: <a href="https://doi.org/10.1002/pssr.202100419">https://doi.org/10.1002/pssr.202100419</a>.</p>  |
| <b>WANG Deng</b>    | <p><u>#WANG Deng</u>, GUO Hongling, <u>#WU Xin</u>, <u>#DENG Xiang</u>, <u>#LI Fengzhu</u>, <u>#LI Zhen</u>, LIN Francis, <u>ZHU Zonglong</u>, ZHANG Yi, XU Baomin, <u>JEN Alex</u>, "Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells", <i>Advanced Functional Materials</i>, 32(2), 04 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202107359">https://doi.org/10.1002/adfm.202107359</a>.</p>  |
| <b>WANG Maohuai</b> | <p>XU Shengyu, WEI Shuxian, WANG Lu, LIU Sen, <u>#WANG Maohuai</u>, LIU Siyuan, WANG Zhaojie, YANG Tianfang, LU Xiaoqing, "Li-decorated <math>\beta</math>1-graphyne for high-performance CO<sub>2</sub> capture and separation over N<sub>2</sub>", <i>Applied Surface Science</i>, 605, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.154724">https://doi.org/10.1016/j.apsusc.2022.154724</a>.</p> <p><u>#WANG Maohuai</u>, <u>#KONG Lingyan</u>, LU Xiaoqing, <u>WU Lawrence</u>, "Can charge-modulated metal-organic frameworks achieve high-performance CO<sub>2</sub> capture and separation over H<sub>2</sub>, N<sub>2</sub>, and CH<sub>4</sub>?", <i>ChemSusChem</i>, 15(3), 07 December 2021, doi: <a href="https://doi.org/10.1002/cssc.202101674">https://doi.org/10.1002/cssc.202101674</a>.</p> <p><u>#WANG Maohuai</u>, <u>#KONG Lingyan</u>, LU Xiaoqing, <u>WU Lawrence</u>, "First-row transition metal embedded pyrazine-based graphynes as high-performance single atom catalysts for the CO<sub>2</sub> reduction reaction", <i>Journal of Materials Chemistry A</i>, 10(16), 14 March 2022, pp 9048-9058, doi: <a href="https://doi.org/10.1039/d2ta00654e">https://doi.org/10.1039/d2ta00654e</a>.</p> <p>ZHAI Wanru, <u>#WANG Maohuai</u>, LIU Sen, XU Shengyu, DONG Hao, WANG Lu, WEI Shuxian, WANG Zhaojie, LIU Siyuan, LU Xiaoqing, "Theoretical investigation on two-dimensional conjugated aromatic polymer membranes for high-efficiency hydrogen separation: The effects of pore size and interaction", <i>Separation and Purification Technology</i>, 299, doi: <a href="https://doi.org/10.1016/j.seppur.2022.121674">https://doi.org/10.1016/j.seppur.2022.121674</a>.</p> <p>ZHOU Sainan, <u>#WANG Maohuai</u>, WEI Shuxian, WANG Zhaojie, LIU Siyuan, <u>WU Lawrence</u>, SUN Daofeng, LU Xiaoqing, "Precise regulation of CO<sub>2</sub> packing pattern in s-block metal doped single-layer covalent organic frameworks for high-performance CO<sub>2</sub> capture and separation", <i>Chemical Engineering Journal</i>, 441, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135903">https://doi.org/10.1016/j.cej.2022.135903</a>.</p> <p><u>#KONG Lingyan</u>, <u>LIANG Xiongyi</u>, <u>#WANG Maohuai</u>, <u>WU Lawrence</u>, "Theoretical Screening of Transition Metal-Embedded Ti<sub>2</sub>N for High-Efficiency Hydrogen Evolution Reaction", <i>ACS Sustainable Chemistry &amp; Engineering</i>, 10(13), 18 March 2022, pp 4152–4160, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c07741">https://doi.org/10.1021/acssuschemeng.1c07741</a>.</p> <p>ZHOU Sainan, <u>#WANG Maohuai</u>, WEI Shuxian, XIN Huili, ZHAI Wanru, XU Shengyu, LIU Sen, LIU Siyuan, WANG Zhaojie, <u>WU Lawrence</u>, LU Xiaoqing, "Multi-objective optimization of alkali/alkaline earth metals doped graphyne for ultrahigh-performance CO<sub>2</sub> capture and separation over N<sub>2</sub>/CH<sub>4</sub>", <i>Materials Today Physics</i>, 21, 20 September 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100539">https://doi.org/10.1016/j.mtphys.2021.100539</a>.</p> |
| <b>WANG Rui</b>     | <p><u>WEN Tongqi</u>, <u>#WANG Rui</u>, <u>#ZHU Lingyu</u>, ZHANG Linfeng, WANG Han, SROLOVITZ David, <u>WU Zhaoxuan</u>, "Specialising neural network potentials for accurate properties and application to the mechanical response of titanium", <i>npj Computational Materials</i>, 7, 16 December 2021, doi: <a href="https://doi.org/10.1038/s41524-021-00661-y">https://doi.org/10.1038/s41524-021-00661-y</a>.</p>   |
| <b>WANG Shixun</b>  | <p><u>#LI Xinliang</u>, <u>#WANG Shixun</u>, <u>#WANG Tairan</u>, <u>#DUAN Zonghui</u>, <u>#HUANG Zhaodong</u>, <u>LIANG Guojin</u>, <u>FAN Jun</u>, YANG Cheng, <u>ROGACH Andrey</u>, <u>ZHI Chunyi</u>, "Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries", <i>Nano Energy</i>, 98, 14 April 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107278">https://doi.org/10.1016/j.nanoen.2022.107278</a>.</p> <p><u>#WANG Shixun</u>, <u>#QI Jinsong</u>, <u>KERSHAW Stephen Vincent</u>, <u>ROGACH Andrey</u>, "Co-Doping of Cerium and Bismuth into Lead-Free Double Perovskite Cs<sub>2</sub>AgInCl<sub>6</sub>Nanocrystals Results</p>  |

## Section A: Publications of PhD Students

|                    |   |
|--------------------|---|
|                    | in Improved Photoluminescence Efficiency", <i>ACS Nanoscience Au</i> , 2(2), 20 April 2022, pp 93-101, doi: <a href="https://doi.org/10.1021/acsnanoscienceau.1c00028">https://doi.org/10.1021/acsnanoscienceau.1c00028</a> .   |
|                    | #DUAN Zonghui, NA Guangren, #WANG Shixun, NING Jiajia, XING Bangyu, HUANG Fei, #PORTNIAGIN Arsenii, KERSHAW Stephen Vincent, ZHANG Lijun, ROGACH Andrey, "Proton Transfer-Driven Modification of 3D Hybrid Perovskites to Form Oriented 2D Ruddlesden-Popper Phases", <i>Small Science</i> , 2(3), 23 December 2021, doi: <a href="https://doi.org/10.1002/smssc.202100114">https://doi.org/10.1002/smssc.202100114</a> .   |
|                    | #DUAN Zonghui, #WANG Shixun, #QI Jinsong, #PORTNIAGIN Arsenii, #DOERING Aaron, KERSHAW Stephen Vincent, ROGACH Andrey, "Highly Luminescent and Stable 2D/3D Octadecylammonium/Formamidinium Lead Bromide Perovskite Films", <i>Journal of Physical Chemistry C</i> , 125(31), 03 August 2021, pp 17501-17508, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04881">https://doi.org/10.1021/acs.jpcc.1c04881</a> .  |
|                    | CHEN Bing, #GUO Yang, #WANG Yuan, #LIU Zhen, WEI Qi, #WANG Shixun, ROGACH Andrey, XING Guichuan, SHI Peng, WANG Feng, "Multiexcitonic Emission in Zero-Dimensional Cs <sub>2</sub> ZrCl <sub>6</sub> :Sb <sup>3+</sup> Perovskite Crystals", <i>Journal of the American Chemical Society</i> , 143(42), 13 October 2021, pp 17599-17606, doi: <a href="https://doi.org/10.1021/jacs.1c07537">https://doi.org/10.1021/jacs.1c07537</a> .   |
|                    | ZHU Jinyang, HU Junhua, HU Qiang, ZHANG Xiaoyu, USHAKOVA Elena, LIU Kaikai, #WANG Shixun, CHEN Xu, SHAN Chongxin, ROGACH Andrey, BAI Xue, "White Light Afterglow in Carbon Dots Achieved via Synergy between the Room-Temperature Phosphorescence and the Delayed Fluorescence", <i>Small</i> , 18(1), 17 November 2021, doi: <a href="https://doi.org/10.1002/sml.202105415">https://doi.org/10.1002/sml.202105415</a> .   |
|                    | OVČAR Juraj, LEUNG Tik Lun, GRISANTI Luca, SKOKO Željko, VRANKIĆ Martina, LOW Kam-Hung, #WANG Shixun, YOU Pei-Ying, AHN Hyeyoung, LONČARIĆ Ivor, DJURIŠIĆ Aleksandra B., POPOVIĆ Jasminka, "Mixed Halide Ordering as a Tool for the Stabilization of Ruddlesden-Popper Structures", <i>Chemistry of Materials</i> , 34(10), 05 May 2022, pp 4286-4297, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c03815">https://doi.org/10.1021/acs.chemmater.1c03815</a> .   |
|                    | #PORTNIAGIN Arsenii, NING Jiajia, #WANG Shixun, #LI Zhuo, SERGEEV Aleksander A., KERSHAW Stephen Vincent, ZHONG Xiaoyan, ROGACH Andrey, "Monodisperse CuInS <sub>2</sub> /CdS and CuInZnS <sub>2</sub> /CdS Core-Shell Nanorods with a Strong Near-Infrared Emission", <i>Advanced Optical Materials</i> , 10(8), 27 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102590">https://doi.org/10.1002/adom.202102590</a> .  |
|                    | LIU Fangzhou, QIN Xinshun, HAN Bing, CHAN Christopher C. S., MA Chao, LEUNG Tik Lun, CHEN Wei, HE Yanling, LONČARIĆ Ivor, GRISANTI Luca, OVČAR Juraj, SKOKO Željko, SHI Yingli, LING Francis Chi Chung, #HUQE Md Rashedul, ZAPIEN Juan Antonio, #WANG Shixun, SU Chun-Jen, JENG U-Ser, WONG Kam Sing, NG Alan Man-Ching, GU Meng, POPOVIĆ Jasminka, DJURIŠIĆ Aleksandra B., "Enhanced Light Emission Performance of Mixed Cation Perovskite Films—The Effect of Solution Stoichiometry on Crystallization", <i>Advanced Optical Materials</i> , 9(21), 20 August 2021, doi: <a href="https://doi.org/10.1002/adom.202100393">https://doi.org/10.1002/adom.202100393</a> . |
|                    | ZHU Yuanmin, #WANG Shixun, LI Bai, YANG Xuming, WU Duo jie, FENG Shihui, LI Lei, ROGACH Andrey, GU Meng, "Twist-to-Untwist Evolution and Cation Polarization Behavior of Hybrid Halide Perovskite Nanoplatelets Revealed by Cryogenic Transmission Electron Microscopy", <i>Journal of Physical Chemistry Letters</i> , 12(51), 17 December 2021, pp 12187-12195, doi: <a href="https://doi.org/10.1021/acs.jpcllett.1c03570">https://doi.org/10.1021/acs.jpcllett.1c03570</a> .  |
|                    | #WANG Shixun, KERSHAW Stephen Vincent, ROGACH Andrey, "Bright and stable dion-jacobson tin bromide perovskite microcrystals realized by primary alcohol dopants", <i>Chemistry of Materials</i> , 33(13), 02 July 2021, pp 5413-5421, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c01581">https://doi.org/10.1021/acs.chemmater.1c01581</a> .  |
|                    | #QI Jinsong, #WANG Shixun, #PORTNIAGIN Arsenii, KERSHAW Stephen Vincent, ROGACH Andrey, "Room temperature fabrication of stable, strongly luminescent Dion-Jacobson tin bromide perovskite microcrystals achieved through use of primary alcohols", <i>Nanomaterials</i> , 11(10), 16 October 2021, doi: <a href="https://doi.org/10.3390/nano11102738">https://doi.org/10.3390/nano11102738</a> .  |
| <b>WANG Tairan</b> | #LI Xinliang, #WANG Shixun, #WANG Tairan, #DUAN Zonghui, #HUANG Zhaodong, LIANG Guojin, FAN Jun, YANG Cheng, ROGACH Andrey, ZHI Chunyi, "Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion  |

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|                 |   |
|-----------------|---|
|                 | batteries", <i>Nano Energy</i> , 98, 14 April 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107278">https://doi.org/10.1016/j.nanoen.2022.107278</a> .  |
|                 | #LIANG Bochun, #MA Ninggui, #WANG Yuhang, #WANG Tairan, FAN Jun, "N-functionalized Ti <sub>2</sub> B MBene as high-performance anode materials for sodium-ion batteries: A DFT study", <i>Applied Surface Science</i> , 599, 10 June 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153927">https://doi.org/10.1016/j.apsusc.2022.153927</a> .   |
|                 | #CUI Huilin, #WANG Tairan, #HUANG Zhaodong, LIANG Guojin, #CHEN Ze, #CHEN Ao, WANG Donghong, YANG Qi, #HONG Hu, FAN Jun, ZHI Chunyi, "High-Voltage Organic Cathodes for Zinc-Ion Batteries through Electron Cloud and Solvation Structure Regulation", <i>Angewandte Chemie - International Edition</i> , 61(30), 09 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203453">https://doi.org/10.1002/anie.202203453</a> .   |
|                 | #MA Ninggui, LI Na, #WANG Tairan, #MA Xinyao, FAN Jun, "Strain engineering in the oxygen reduction reaction and oxygen evolution reaction catalyzed by Pt-doped Ti <sub>2</sub> CF <sub>2</sub> ", <i>Journal of Materials Chemistry A</i> , 10(3), 09 December 2021, pp 1390-1401, doi: <a href="https://doi.org/10.1039/d1ta07349d">https://doi.org/10.1039/d1ta07349d</a> .  |
|                 | #HUANG Zhaodong, #WANG Tairan, #LI Xinliang, #CUI Huilin, LIANG Guojin, YANG Qi, #CHEN Ze, #CHEN Ao, #GUO Ying, FAN Jun, ZHI Chunyi, "Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries", <i>Advanced Materials</i> , 34(4), 26 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106180">https://doi.org/10.1002/adma.202106180</a> .  |
|                 | WANG Yu, #WANG Tairan, DONG Dejian, XIE Jing, GUAN Yuepeng, HUANG Yaqin, FAN Jun, LU Yi-Chun, "Enabling high-energy-density aqueous batteries with hydrogen bond-anchored electrolytes", <i>Matter</i> , 5(1), 10 November 2021, pp 162-179, doi: <a href="https://doi.org/10.1016/j.matt.2021.10.021">https://doi.org/10.1016/j.matt.2021.10.021</a> .   |
|                 | #MA Ninggui, LI Na, #ZHANG Yaqin, #WANG Tairan, #ZHAO Jun, FAN Jun, "Strain adjustment Pt-doped Ti <sub>2</sub> CO <sub>2</sub> as an efficient bifunctional catalyst for oxygen reduction reactions and oxygen evolution reactions by first-principles calculations", <i>Applied Surface Science</i> , 590, 21 March 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153149">https://doi.org/10.1016/j.apsusc.2022.153149</a> .  |
|                 | #MA Ninggui, #WANG Tairan, LI Na, LI Yiran, FAN Jun, "New phases of MBenes M <sub>2</sub> B (M = Sc, Ti, and V) as high-capacity electrode materials for rechargeable magnesium ion batteries", <i>Applied Surface Science</i> , 571, 14 September 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151275">https://doi.org/10.1016/j.apsusc.2021.151275</a> .   |
| <b>WANG Wei</b> | #CHEN Dong, #ZHANG Shaoce, BU Xiuming, #ZHANG Rong, #QUAN Quan, #LAI Zhengxun, #WANG Wei, #MENG You, #YIN Di, YIP Sen Po, LIU Chuntai, ZHI Chunyi, HO Johnny Chung Yin, "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i> , 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a> .                  |
|                 | #WANG Weijun, #MENG You, #WANG Wei, #ZHANG Zhuomin, #XIE Pengshan, #LAI Zhengxun, BU Xiuming, #LI Yezhan, LIU Chuntai, YANG Zhengbao, YIP Sen Po, HO Johnny Chung Yin, "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi <sub>2</sub> O <sub>2</sub> Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i> , 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a> . |
|                 | #LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #CHEN Dong, #LI Dengji, #WANG Wei, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Drop-Casting Halide Microcrystals Enabled by Green Glycol Solvent for High-Performance Photodetectors", <i>Advanced Photonics Research</i> , 29 May 2022, doi: <a href="https://doi.org/10.1002/adpr.202200041">https://doi.org/10.1002/adpr.202200041</a> .  |
|                 | #LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Superior Performance and Stability of 2D Dion-Jacobson Halide Perovskite Photodetectors Operated under Harsh Conditions without Encapsulation", <i>Advanced Optical Materials</i> , 8(24), 04 October 2021, doi: <a href="https://doi.org/10.1002/adom.202101523">https://doi.org/10.1002/adom.202101523</a> .                                   |
|                 | #KANG Xiaolin, YIP SenPo, #MENG You, #WANG Wei, #LI Dengji, LIU Chuntai, HO Johnny Chung Yin, "High-performance electrically transduced hazardous gas sensors based on low-dimensional nanomaterials", <i>Nanoscale Advances</i> , 09 September 2021, doi: <a href="https://doi.org/10.1039/d1na00433f">https://doi.org/10.1039/d1na00433f</a> .  |



Section A: Publications of PhD Students

|                    |  |
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|                    | <p>#WANG Wei, YIP Sen Po, #MENG You, #WANG Weijun, WANG Fei, BU Xiuming, #LAI Zhengxun, #KANG Xiaolin, #XIE Pengshan, #QUAN Quan, LIU Chuntai, HO Johnny Chung Yin, "Antimony-Rich GaAs<sub>x</sub>Sb<sub>1-x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i>, 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a>.</p>      |
|                    | <p>#QUAN Quan, BU Xiuming, #CHEN Dong, WANG Fei, #KANG Xiaolin, #WANG Wei, #MENG You, YIP SenPo, LIU Chuntai, HO Johnny Chung Yin, "Sequential self-reconstruction of localized Mo species in hierarchical carbon/Co-Mo oxide heterostructures for boosting alkaline hydrogen evolution kinetics and durability", <i>Journal of Materials Chemistry A</i>, 15 December 2021, doi: <a href="https://doi.org/10.1039/d1ta09010k">https://doi.org/10.1039/d1ta09010k</a>.</p>                               |
|                    | <p>#LAI Zhengxun, #MENG You, WANG Fei, BU Xiuming, #WANG Wei, #XIE Pengshan, #WANG Weijun, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors", <i>Nano Research</i>, 10 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-3907-9">https://doi.org/10.1007/s12274-021-3907-9</a>.</p>  |
|                    | <p>BU Xiuming, LIANG Xiongyi, BU Yu, #QUAN Quan, #MENG You, #LAI Zhengxun, #WANG Wei, LIU Chuntai, LU Jian, WU Lawrence, HO Johnny Chung Yin, "NiMo@C<sub>3</sub>N<sub>5</sub> heterostructures with multiple electronic transmission channels for highly efficient hydrogen evolution from alkaline electrolytes and seawater", <i>Chemical Engineering Journal</i>, 438, 22 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135379">https://doi.org/10.1016/j.cej.2022.135379</a>.</p> |
|                    | <p>CHEN Xiaoteng, SUN Jinxing, GUO Binbin, WANG Yue, YU Shixiang, #WANG Wei, BAI Jiaming, "Effect of the particle size on the performance of BaTiO<sub>3</sub> piezoelectric ceramics produced by additive manufacturing", <i>Ceramics International</i>, 48(1), 22 September 2021, pp 1285-1292, doi: <a href="https://doi.org/10.1016/j.ceramint.2021.09.213">https://doi.org/10.1016/j.ceramint.2021.09.213</a>.</p>  |
|                    | <p>#WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS<sub>2</sub> Heterojunctions", <i>ACS Nano</i>, 16(7), 27 June 2022, pp 11036-11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a>.</p>   |
|                    | <p>#MENG You, YIP Sen Po, #WANG Wei, LIU Chuntai, HO Johnny Chung Yin, "Quantum Artificial Synapses", <i>Advanced Quantum Technologies</i>, 4(11), 05 September 2021, doi: <a href="https://doi.org/10.1002/qute.202100072">https://doi.org/10.1002/qute.202100072</a>.</p>  |
|                    | <p>#LAI Zhengxun, WANG Fei, #MENG You, BU Xiuming, #KANG Xiaolin, #QUAN Quan, #WANG Wei, YIP Sen Po, LIU Chuntai, HO Johnny Chung Yin, "Solution-processed lead-free double perovskite microplatelets with enhanced photoresponse and thermal stability", <i>Science China Materials</i>, 65(5), 20 December 2021, pp 1313-1319, doi: <a href="https://doi.org/10.1007/s40843-021-1900-7">https://doi.org/10.1007/s40843-021-1900-7</a>.</p>   |
|                    | <p>#XIE Pengshan, HUANG Yulong, #WANG Wei, #MENG You, #LAI Zhengxun, WANG Fei, YIP Sen Po, BU Xiuming, #WANG Weijun, #LI Dengji, SUN Jia, HO Johnny Chung Yin, "Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses", <i>Nano Energy</i>, 91, 26 October 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106654">https://doi.org/10.1016/j.nanoen.2021.106654</a>.</p>   |
|                    | <p>#WANG Wei, HO Johnny Chung Yin, "Luminescent concentrators enable highly efficient and broadband photodetection", <i>Light: Science and Applications</i>, 11, 06 May 2022, doi: <a href="https://doi.org/10.1038/s41377-022-00819-3">https://doi.org/10.1038/s41377-022-00819-3</a>.</p>  |
| <b>WANG Weijun</b> | <p>#WANG Weijun, #MENG You, #WANG Wei, #ZHANG Zhuomin, #XIE Pengshan, #LAI Zhengxun, BU Xiuming, #LI Yezhan, LIU Chuntai, YANG Zhengbao, YIP Sen Po, HO Johnny Chung Yin, "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi<sub>2</sub>O<sub>2</sub>Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i>, 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a>.</p>                   |
|                    | <p>#WANG Wei, YIP Sen Po, #MENG You, #WANG Weijun, WANG Fei, BU Xiuming, #LAI Zhengxun, #KANG Xiaolin, #XIE Pengshan, #QUAN Quan, LIU Chuntai, HO Johnny Chung Yin, "Antimony-Rich GaAs<sub>x</sub>Sb<sub>1-x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i>, 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a>.</p>      |

Section A: Publications of PhD Students

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|             | <p>#LAI Zhengxun, #MENG You, WANG Fei, BU Xiuming, #WANG Wei, #XIE Pengshan, #WANG Weijun, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors", <i>Nano Research</i>, 10 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-3907-9">https://doi.org/10.1007/s12274-021-3907-9</a>.</p>  |
|             | <p>#WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS2 Heterojunctions", <i>ACS Nano</i>, 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a>.</p>                                |
|             | <p>#XIE Pengshan, HUANG Yulong, #WANG Wei, #MENG You, #LAI Zhengxun, WANG Fei, YIP Sen Po, BU Xiuming, #WANG Weijun, #LI Dengji, SUN Jia, HO Johnny Chung Yin, "Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses", <i>Nano Energy</i>, 91, 26 October 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106654">https://doi.org/10.1016/j.nanoen.2021.106654</a>.</p>   |
| WANG Wenbin | <p>#WANG Wenbin, #ZHAI Wei, CHEN Ye, HE Qiyuan, ZHANG Hua, "Two-dimensional material-based virus detection", <i>Science China Chemistry</i>, 65(3), 05 January 2022, pp 497–513, doi: <a href="https://doi.org/10.1007/s11426-021-1150-7">https://doi.org/10.1007/s11426-021-1150-7</a>.</p>   |
| WANG Xiang  | <p>SHE Pengfei, QIN Yanyan, #WANG Xiang, ZHANG Qichun, "Recent Progress in External-Stimulus-Responsive 2D Covalent Organic Frameworks", <i>Advanced Materials</i>, 34(22), 08 July 2021, doi: <a href="https://doi.org/10.1002/adma.202101175">https://doi.org/10.1002/adma.202101175</a>.</p>  |
|             | <p>YANG Jie, #KANG Fangyuan, #WANG Xiang, ZHANG Qichun, "Design strategies for improving the crystallinity of covalent organic frameworks and conjugated polymers: a review", <i>Materials Horizons</i>, 19 July 2021, doi: <a href="https://doi.org/10.1039/d1mh00809a">https://doi.org/10.1039/d1mh00809a</a>.</p>   |
|             | <p>XIE Hangqing, CHEN Zi, WEI Xiaoqin, HAN Qing, WANG Haotuo, YANG Xiaolei, XU Shiqing, #WANG Xiang, "Engineering a triplet exciton enhanced photoluminescence self-assembled nanoprobe containing block copolymer and Tb<sup>3+</sup>/Ga<sup>3+</sup> complex for fluoride ion detection in serum", <i>Sensors and Actuators B: Chemical</i>, 366, 28 April 2022, doi: <a href="https://doi.org/10.1016/j.snb.2022.131975">https://doi.org/10.1016/j.snb.2022.131975</a>.</p> |
| WANG Yanbo  | <p>#YANG Shuo, #LI Chuan, LV Haiming, #GUO Xun, #WANG Yanbo, HAN Cuiping, ZHI Chunyi, LI Hongfei, "High-Rate Aqueous Aluminum-Ion Batteries Enabled by Confined Iodine Conversion Chemistry", <i>Small Methods</i>, 5(10), 05 September 2021, doi: <a href="https://doi.org/10.1002/smt.202100611">https://doi.org/10.1002/smt.202100611</a>.</p>  |
|             | <p>#HOU Yue, #HUANG Zhaodong, #CHEN Ze, #LI Xinliang, #CHEN Ao, #LI Pei, #WANG Yanbo, ZHI Chunyi, "Bifunctional separators design for safe lithium-ion batteries: Suppressed lithium dendrites and fire retardance", <i>Nano Energy</i>, 97, 28 March 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107204">https://doi.org/10.1016/j.nanoen.2022.107204</a>.</p>  |
|             | <p>#WANG Yanbo, YANG Qi, #GUO Xun, #YANG Shuo, #CHEN Ao, LIANG Guojin, ZHI Chunyi, "Strategies of binder design for high-performance lithium-ion batteries: a mini review", <i>Rare Metals</i>, 41(3), 04 September 2021, pp 745–761, doi: <a href="https://doi.org/10.1007/s12598-021-01816-y">https://doi.org/10.1007/s12598-021-01816-y</a>.</p>  |
| WANG Yanze  | <p>#WANG Yanze, CHEN Bing, #ZHANG Xin, SUO Hao, ZHENG Weilin, #SHEN Junda, LI Yangyang, WANG Feng, "Doubly Doped BaZnOS Microcrystals for Multicolor Luminescence Switching", <i>Advanced Optical Materials</i>, 27 January 2022, doi: <a href="https://doi.org/10.1002/adom.202102430">https://doi.org/10.1002/adom.202102430</a>.</p>  |
| WANG Yuhang | <p>#LIANG Bochun, #MA Ninggui, #WANG Yuhang, #WANG Tairan, FAN Jun, "N-functionalized Ti<sub>2</sub>B MBene as high-performance anode materials for sodium-ion batteries: A DFT study", <i>Applied Surface Science</i>, 599, 10 June 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153927">https://doi.org/10.1016/j.apsusc.2022.153927</a>.</p>   |
|             | <p>#WANG Yuhang, #MA Ninggui, #LIANG Bochun, FAN Jun, "Exploring the potential of Ti<sub>2</sub>BT<sub>2</sub> (T = F, Cl, Br, I, O, S, Se and Te) monolayers as anode materials for lithium and sodium ion batteries", <i>Applied Surface Science</i>, 596, 13 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153619">https://doi.org/10.1016/j.apsusc.2022.153619</a>.</p>  |
|             | <p>#MA Ninggui, #WANG Yuhang, #ZHANG Yaqin, #LIANG Bochun, #ZHAO Jun, FAN Jun, "First-principles screening of Pt doped Ti<sub>2</sub>CN<sub>L</sub> (N = O, S and Se, L = F, Cl, Br and I) as high-</p>  |

## Section A: Publications of PhD Students

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|----------------------|---|
|                      | performance catalysts for ORR/OER", <i>Applied Surface Science</i> , 596, 05 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153574">https://doi.org/10.1016/j.apsusc.2022.153574</a> .   |
| <b>WANG Yunfan</b>   | ZHANG Zhuoqiong, TANG Yabing, #WANG Yunfan, #ZENG Zixin, SHI Run, YAN Han, TSANG Sai Wing, CHENG Chun, SO Shu Kong, "Heat Transfer Enhancement of n-Type Organic Semiconductors by an Insulator Blend Approach", <i>ACS Applied Materials and Interfaces</i> , 14(26), 23 June 2022, pp 30174–30181, doi: <a href="https://doi.org/10.1021/acsami.2c05503">https://doi.org/10.1021/acsami.2c05503</a> .<br>WANG Hongqiao, #WANG Yunfan, XUAN Zhipeng, CHEN Tingting, ZHANG Jingquan, HAO XIA, WU Lili, CONSTANTINOIU Iordania, ZHAO Dewei, "Progress in perovskite solar cells towards commercialization—a review", <i>Materials</i> , 14(21), 01 November 2021, doi: <a href="https://doi.org/10.3390/ma14216569">https://doi.org/10.3390/ma14216569</a> .   |
| <b>WU Zhuoxi</b>     | #ZHANG Rong, #WU Zhuoxi, #HUANG Zhaodong, #GUO Ying, #ZHANG Shaoce, #ZHAO Yuwei, ZHI Chunyi, "Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery", <i>Chinese Chemical Letters</i> , 13 June 2022, doi: <a href="https://doi.org/10.1016/j.cclet.2022.06.023">https://doi.org/10.1016/j.cclet.2022.06.023</a> .  |
| <b>XIAO Fengping</b> | HU Peng, #XIAO Fengping, WU Yifei, YANG Xuming, LI Na, WANG Hongkang, JIA Jianfeng, "Covalent encapsulation of sulfur in a graphene/N-doped carbon host for enhanced sodium-sulfur batteries", <i>Chemical Engineering Journal</i> , 443, 09 April 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.136257">https://doi.org/10.1016/j.cej.2022.136257</a> .<br>#XIAO Fengping, YANG Xuming, YAO Tianhao, WANG Hongkang, ROGACH Andrey, "Encapsulation of selenium in MOF-derived N,O-codoped porous flower-like carbon host for Na-Se batteries", <i>Chemical Engineering Journal</i> , 430(Part 2), 05 October 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132737">https://doi.org/10.1016/j.cej.2021.132737</a> .<br>QIAN Ruifeng, LU Huiying, YAO Tianhao, #XIAO Fengping, SHI Jian-Wen, CHENG Yonghong, WANG Hongkang, "Hollow TiNb <sub>2</sub> O <sub>7</sub> Nanospheres with a Carbon Coating as High-Efficiency Anode Materials for Lithium-Ion Batteries", <i>ACS Sustainable Chemistry and Engineering</i> , 10(1), 27 December 2021, pp 61–70, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c04712">https://doi.org/10.1021/acssuschemeng.1c04712</a> .  |
| <b>XIE Pengshan</b>  | #WANG Weijun, #MENG You, #WANG Wei, #ZHANG Zhuomin, #XIE Pengshan, #LAI Zhengxun, BU Xiuming, #LI Yezhan, LIU Chuntai, YANG Zhengbao, YIP Sen Po, HO Johnny Chung Yin, "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi <sub>2</sub> O <sub>2</sub> Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i> , 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a> .<br>#WANG Wei, YIP Sen Po, #MENG You, #WANG Weijun, WANG Fei, BU Xiuming, #LAI Zhengxun, #KANG Xiaolin, #XIE Pengshan, #QUAN Quan, LIU Chuntai, HO Johnny Chung Yin, "Antimony-Rich GaAs <sub>x</sub> Sb <sub>1-x</sub> Nanowires Passivated by Organic Sulfides for High-Performance Transistors and Near-Infrared Photodetectors", <i>Advanced Optical Materials</i> , 9(22), 23 September 2021, doi: <a href="https://doi.org/10.1002/adom.202101289">https://doi.org/10.1002/adom.202101289</a> .<br>#LAI Zhengxun, #MENG You, WANG Fei, BU Xiuming, #WANG Wei, #XIE Pengshan, #WANG Weijun, LIU Chuntai, YIP Sen Po, HO Johnny Chung Yin, "Direct drop-casting synthesis of all-inorganic lead and lead-free halide perovskite microcrystals for high-performance photodetectors", <i>Nano Research</i> , 10 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-3907-9">https://doi.org/10.1007/s12274-021-3907-9</a> .<br>#WANG Wei, #WANG Weijun, #MENG You, #QUAN Quan, #LAI Zhengxun, #LI Dengji, #XIE Pengshan, YIP Sen Po, #KANG Xiaolin, BU Xiuming, #CHEN Dong, LIU Chuntai, HO Johnny Chung Yin, "Mixed-Dimensional Anti-ambipolar Phototransistors Based on 1D GaAsSb/2D MoS <sub>2</sub> Heterojunctions", <i>ACS Nano</i> , 16(7), 27 June 2022, pp 11036–11048, doi: <a href="https://doi.org/10.1021/acsnano.2c03673">https://doi.org/10.1021/acsnano.2c03673</a> .<br>#XIE Pengshan, LIU Tianjiao, SUN Jia, YANG Junliang, "Structures, Properties, and Device Applications for [1]Benzothieno[3,2-b]Benzothiophene Derivatives", <i>Advanced Functional Materials</i> , 16 March 2022, doi: <a href="https://doi.org/10.1002/adfm.202200843">https://doi.org/10.1002/adfm.202200843</a> .<br>#XIE Pengshan, HUANG Yulong, #WANG Wei, #MENG You, #LAI Zhengxun, WANG Fei, YIP Sen Po, BU Xiuming, #WANG Weijun, #LI Dengji, SUN Jia, HO Johnny Chung Yin, "Ferroelectric P(VDF-TrFE) wrapped InGaAs nanowires for ultralow-power artificial synapses", <i>Nano Energy</i> , 91, 26 October 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106654">https://doi.org/10.1016/j.nanoen.2021.106654</a> . |

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| <b>YAN Jie</b>     | <a href="#">ZHU Zelin</a> , <a href="#">GNANASEKARAN Premkumar</a> , <a href="#">#YAN Jie</a> , <a href="#">#ZHENG Zhong</a> , <a href="#">LEE Chun Sing</a> , <a href="#">CHI Yun</a> , ZHOU Xiuwen, "Efficient Blue Electrophosphorescence and Hyperphosphorescence Generated by Bis-tridentate Iridium(III) Complexes", <i>Inorganic Chemistry</i> , 61(23), 30 May 2022, pp 8898–8908, doi: <a href="https://doi.org/10.1021/acs.inorgchem.2c01026">https://doi.org/10.1021/acs.inorgchem.2c01026</a> .   |
|                    | <a href="#">#YAN Jie</a> , <a href="#">ZHU Zelin</a> , <a href="#">LEE Chun Sing</a> , <a href="#">LIU Shih-Hung</a> , <a href="#">CHOU Pi-Tai</a> , <a href="#">CHI Yun</a> , "Probing electron excitation characters of carboline-based bis-tridentate ir(III) complexes", <i>Molecules</i> , 26(19), 06 October 2021, doi: <a href="https://doi.org/10.3390/molecules26196048">https://doi.org/10.3390/molecules26196048</a> .   |
|                    | <a href="#">#YAN Jie</a> , <a href="#">XUE Qin</a> , <a href="#">#YANG Hui</a> , <a href="#">YIU Shek Man Ken</a> , <a href="#">ZHANG Ye-Xin</a> , <a href="#">XIE Guohua</a> , <a href="#">CHI Yun</a> , "Regioselective Syntheses of Imidazo[4,5- <i>b</i> ]pyrazin-2-ylidene-Based Chelates and Blue Emissive Iridium(III) Phosphors for Solution-Processed OLEDs", <i>Inorganic Chemistry</i> , 61(23), 02 June 2022, pp 8797-8805, doi: <a href="https://doi.org/10.1021/acs.inorgchem.2c00750">https://doi.org/10.1021/acs.inorgchem.2c00750</a> .  |
|                    | <a href="#">JIN Jibiao</a> , <a href="#">ZHU Zelin</a> , <a href="#">#YAN Jie</a> , <a href="#">ZHOU Xiuwen</a> , <a href="#">#CAO Chen</a> , <a href="#">CHOU Pi-Tai</a> , <a href="#">ZHANG Ye-Xin</a> , <a href="#">#ZHENG Zhong</a> , <a href="#">LEE Chun Sing</a> , <a href="#">CHI Yun</a> , "Iridium(III) Phosphors-Bearing Functional 9-Phenyl-7,9-dihydro-8H-purin-8-ylidene Chelates and Blue Hyperphosphorescent OLED Devices", <i>Advanced Photonics Research</i> , 3(7), 08 March 2022, doi: <a href="https://doi.org/10.1002/adpr.202100381">https://doi.org/10.1002/adpr.202100381</a> .  |
| <b>YAN Wenrong</b> | <a href="#">TIAN Qiong</a> , <a href="#">#YAN Wenrong</a> , <a href="#">CHEN Tianding</a> , <a href="#">HO Derek</a> , "Multi-length scale hierarchical architecture overcoming pressure sensing range-speed tradeoff for skin electronics", <i>Journal of Materials Chemistry C</i> , 9(47), 22 November 2021, pp 17129-17135, doi: <a href="https://doi.org/10.1039/d1tc03753f">https://doi.org/10.1039/d1tc03753f</a> .  |
|                    | <a href="#">#YAN Wenrong</a> , <a href="#">HU Haibo</a> , <a href="#">WANG Lei</a> , <a href="#">HO Derek</a> , "Dual Defocused Laser Pyrolysis: A Lasing-Centric Strategy for Defect and Morphological Optimization in Microsupercapacitor Electrodes", <i>Small Methods</i> , 23 April 2022, doi: <a href="https://doi.org/10.1002/smt.202101616">https://doi.org/10.1002/smt.202101616</a> .   |
| <b>YANG Shuo</b>   | <a href="#">#YANG Shuo</a> , <a href="#">#LI Chuan</a> , <a href="#">LV Haiming</a> , <a href="#">#GUO Xun</a> , <a href="#">#WANG Yanbo</a> , <a href="#">HAN Cuiping</a> , <a href="#">ZHI Chunyi</a> , <a href="#">LI Hongfei</a> , "High-Rate Aqueous Aluminum-Ion Batteries Enabled by Confined Iodine Conversion Chemistry", <i>Small Methods</i> , 5(10), 05 September 2021, doi: <a href="https://doi.org/10.1002/smt.202100611">https://doi.org/10.1002/smt.202100611</a> .  |
|                    | <a href="#">#WANG Yanbo</a> , <a href="#">YANG Qi</a> , <a href="#">#GUO Xun</a> , <a href="#">#YANG Shuo</a> , <a href="#">#CHEN Ao</a> , <a href="#">LIANG Guojin</a> , <a href="#">ZHI Chunyi</a> , "Strategies of binder design for high-performance lithium-ion batteries: a mini review", <i>Rare Metals</i> , 41(3), 04 September 2021, pp 745–761, doi: <a href="https://doi.org/10.1007/s12598-021-01816-y">https://doi.org/10.1007/s12598-021-01816-y</a> .   |
|                    | <a href="#">#LI Chuan</a> , <a href="#">#LI Pei</a> , <a href="#">#YANG Shuo</a> , <a href="#">ZHI Chunyi</a> , "Recently advances in flexible zinc ion batteries", <i>Journal of Semiconductors</i> , 42(10), October 2021, doi: <a href="https://doi.org/10.1088/1674-4926/42/10/101603">https://doi.org/10.1088/1674-4926/42/10/101603</a> .   |
| <b>YIN Di</b>      | <a href="#">#CHEN Dong</a> , <a href="#">#ZHANG Shaoce</a> , <a href="#">BU Xiuming</a> , <a href="#">#ZHANG Rong</a> , <a href="#">#QUAN Quan</a> , <a href="#">#LAI Zhengxun</a> , <a href="#">#WANG Wei</a> , <a href="#">#MENG You</a> , <a href="#">#YIN Di</a> , <a href="#">YIP Sen Po</a> , <a href="#">LIU Chuntai</a> , <a href="#">ZHI Chunyi</a> , <a href="#">HO Johnny Chung Yin</a> , "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i> , 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a> . |
| <b>YING Ting</b>   | <a href="#">#MEI Liang</a> , <a href="#">CAO Zhonglin</a> , <a href="#">#YING Ting</a> , <a href="#">YANG Ruijie</a> , <a href="#">PENG Huarong</a> , <a href="#">WANG Gang</a> , <a href="#">ZHENG Long</a> , <a href="#">CHEN Ye</a> , <a href="#">TANG Chuyang Y.</a> , <a href="#">VOIRY Damien</a> , <a href="#">WANG Haihui</a> , <a href="#">FARIMANI Amir Barati</a> , <a href="#">ZENG Zhiyuan</a> , "Simultaneous Electrochemical Exfoliation and Covalent Functionalization of MoS <sub>2</sub> Membrane for Ion Sieving", <i>Advanced Materials</i> , 22 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201416">https://doi.org/10.1002/adma.202201416</a> .               |
| <b>ZENG Zixin</b>  | <a href="#">ZHANG Zhuoqiong</a> , <a href="#">TANG Yabing</a> , <a href="#">#WANG Yunfan</a> , <a href="#">#ZENG Zixin</a> , <a href="#">SHI Run</a> , <a href="#">YAN Han</a> , <a href="#">TSANG Sai Wing</a> , <a href="#">CHENG Chun</a> , <a href="#">SO Shu Kong</a> , "Heat Transfer Enhancement of n-Type Organic Semiconductors by an Insulator Blend Approach", <i>ACS Applied Materials and Interfaces</i> , 14(26), 23 June 2022, pp 30174–30181, doi: <a href="https://doi.org/10.1021/acsami.2c05503">https://doi.org/10.1021/acsami.2c05503</a> .  |
|                    | <a href="#">XIE Yue-Min</a> , <a href="#">NIU Tianqi</a> , <a href="#">YAO Qin</a> , <a href="#">XUE Qifan</a> , <a href="#">#ZENG Zixin</a> , <a href="#">CHENG Yuanhang</a> , <a href="#">YIP Hin Lap</a> , <a href="#">CAO Yong</a> , "Understanding the role of interconnecting layer on determining monolithic perovskite/organic tandem device carrier recombination properties", <i>Journal of Energy Chemistry</i> , 71, 21 March 2022, pp 12-19, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.019">https://doi.org/10.1016/j.jechem.2022.03.019</a> .  |

Section A: Publications of PhD Students

|                |   |
|----------------|---|
|                | <p>CHENG Yuanhang, #ZENG Zixin, LIU Tianyuan, WANG Ying, RODRÍGUEZ-GALLEGOS Carlos D., LIU Haohui, LIU Xixia, THWAY Maung, KHUP David, KHAING Aung Myint, YU Kin Man, TSANG Sai Wing, LIN Fen, "Amorphous CdO-In<sub>2</sub>O<sub>3</sub> Electrode for Perovskite-Based Bifacial and Tandem Photovoltaic Technologies with High Energy Production", <i>Solar RRL</i>, 6(1), 12 November 2021, doi: <a href="https://doi.org/10.1002/solr.202100809">https://doi.org/10.1002/solr.202100809</a>.</p>                          |
|                | <p>XIE Yue-Min, YAO Qin, #ZENG Zixin, XUE Qifan, NIU Tianqi, XIA Ruoxi, CHENG Yuanhang, LIN Francis, TSANG Sai Wing, JEN Alex, YIP Hin Lap, CAO Yong, "Homogeneous Grain Boundary Passivation in Wide-Bandgap Perovskite Films Enables Fabrication of Monolithic Perovskite/Organic Tandem Solar Cells with over 21% Efficiency", <i>Advanced Functional Materials</i>, 32(19), 02 February 2022, doi: <a href="https://doi.org/10.1002/adfm.202112126">https://doi.org/10.1002/adfm.202112126</a>.</p>                       |
|                | <p>GUAN Zhiqiang, #LI Yang, #ZHU Zhaohua, #ZENG Zixin, SHEN Dong, #TAN Jihua, TSANG Sai Wing, LIU Shihao, LEE Chun Sing, "Efficient Perovskite White Light-Emitting Diode Based on an Interfacial Charge-Confinement Structure", <i>ACS Applied Materials and Interfaces</i>, 13(37), 07 September 2021, pp 44991-45000, doi: <a href="https://doi.org/10.1021/acscami.1c09715">https://doi.org/10.1021/acscami.1c09715</a>.</p>  |
|                | <p>#ZHU Zhaohua, #WU Yan, #LI Yang, #ZENG Zixin, TSANG Sai Wing, GUAN Zhiqiang, LEE Chun Sing, "Enhancing the Performance of Perovskite Light-Emitting Diodes by Humidity Treatment", <i>ACS Applied Materials and Interfaces</i>, 14(17), 21 April 2022, pp 19774–19784, doi: <a href="https://doi.org/10.1021/acscami.1c24561">https://doi.org/10.1021/acscami.1c24561</a>.</p>   |
| ZHANG Jianyang | <p>#ZHANG Jianyang, XIAO Bo, LI Q., CAO Boxuan, HOU Jinxiong, #LIU Shaofei, #ZHANG Jixun, #XIAO Weicheng, LUAN Junhua, ZHAO Y. L., LIU Chain Tsuan, YANG Tao, "Temperature-dependent microstructural evolutions and deformation mechanisms of (Ni<sub>2</sub>Co<sub>2</sub>FeCr)<sub>92</sub>Al<sub>4</sub>Nb<sub>4</sub> high-entropy alloys", <i>Journal of Alloys and Compounds</i>, 918, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165597">https://doi.org/10.1016/j.jallcom.2022.165597</a>.</p> |
| ZHANG Jixun    | <p>#ZHANG Jianyang, XIAO Bo, LI Q., CAO Boxuan, HOU Jinxiong, #LIU Shaofei, #ZHANG Jixun, #XIAO Weicheng, LUAN Junhua, ZHAO Y. L., LIU Chain Tsuan, YANG Tao, "Temperature-dependent microstructural evolutions and deformation mechanisms of (Ni<sub>2</sub>Co<sub>2</sub>FeCr)<sub>92</sub>Al<sub>4</sub>Nb<sub>4</sub> high-entropy alloys", <i>Journal of Alloys and Compounds</i>, 918, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165597">https://doi.org/10.1016/j.jallcom.2022.165597</a>.</p> |
| ZHANG Qingyong | <p>YANG Ruijie, #MEI Liang, #ZHANG Qingyong, FAN Yingying, SHIN Hyeon Suk, VOIRY Damien, ZENG Zhiyuan, "High-yield production of mono- or few-layer transition metal dichalcogenide nanosheets by an electrochemical lithium ion intercalation-based exfoliation method", <i>Nature Protocols</i>, 17(2), 12 January 2022, pp 358–377, doi: <a href="https://doi.org/10.1038/s41596-021-00643-w">https://doi.org/10.1038/s41596-021-00643-w</a>.</p>  |
|                | <p>YANG Ruijie, #MEI Liang, FAN Yingying, #ZHANG Qingyong, ZHU Rongshu, AMAL Rose, YIN Zongyou, ZENG Zhiyuan, "ZnIn<sub>2</sub>S<sub>4</sub>-Based Photocatalysts for Energy and Environmental Applications", <i>Small Methods</i>, 5(10), 02 September 2021, doi: <a href="https://doi.org/10.1002/smt.202100887">https://doi.org/10.1002/smt.202100887</a>.</p>   |
|                | <p>#ZHANG Qingyong, MA Jiale, #MEI Liang, LIU Jun, LI Zhenyu, LI Ju, ZENG Zhiyuan, "In situ TEM visualization of LiF nanosheet formation on the cathode-electrolyte interphase (CEI) in liquid-electrolyte lithium-ion batteries", <i>Matter</i>, 5(4), 07 February 2022, pp 1235-1250, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.015">https://doi.org/10.1016/j.matt.2022.01.015</a>.</p>   |
| ZHANG Rong     | <p>YANG Qi, QU Xiaofeng, #CUI Huilin, HE Xincheng, SHAO Yuan, ZHANG Yong, #GUO Xun, #CHEN Ao, #CHEN Ze, #ZHANG Rong, KONG Duanyang, SHI Zhicong, LIU Jun, QIU Jieshan, ZHI Chunyi, "Rechargeable Aqueous Mn Metal Battery Enabled by Inorganic-Organic Interfaces", <i>Angewandte Chemie (International Edition)</i>, 02 June 2022, doi: <a href="https://doi.org/10.1002/anie.202206471">https://doi.org/10.1002/anie.202206471</a>.</p>   |
|                | <p>#ZHANG Rong, #WU Zhuoxi, #HUANG Zhaodong, #GUO Ying, #ZHANG Shaoce, #ZHAO Yuwei, ZHI Chunyi, "Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery", <i>Chinese Chemical Letters</i>, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.ccl.2022.06.023">https://doi.org/10.1016/j.ccl.2022.06.023</a>.</p>   |
|                | <p>#CHEN Dong, #ZHANG Shaoce, BU Xiuming, #ZHANG Rong, #QUAN Quan, #LAI Zhengxun, #WANG Wei, #MENG You, #YIN Di, YIP Sen Po, LIU Chuntai, ZHI Chunyi, HO Johnny Chung Yin, "Synergistic modulation of local environment for electrochemical</p>   |

Section A: Publications of PhD Students

|              |  |
|--------------|--|
|              | nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i> , 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a> .  |
|              | #ZHAO Yuwei, ZHU Yongbin, JIANG Feng, LI Yiyao, #MENG You, #GUO Ying, #LI Qing, #HUANG Zhaodong, #ZHANG Shaoce, #ZHANG Rong, HO Johnny Chung Yin, ZHANG Qianfan, LIU Weishu, ZHI Chunyi, "Vacancy Modulating Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i> , 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a> .                         |
|              | #ZHANG Rong, #ZHANG Shaoce, #GUO Ying, #LI Chuan, #LIU Jiahua, #HUANG Zhaodong, #ZHAO Yuwei, LI Yangyang, ZHI Chunyi, "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt oxide nanotubes", <i>Energy &amp; Environmental Science</i> , 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a> .   |
|              | #GUO Ying, GU Jinxing, #ZHANG Rong, #ZHANG Shaoce, LI Zhen, #ZHAO Yuwei, #HUANG Zhaodong, FAN Jun, CHEN Zhongfang, ZHI Chunyi, "Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction", <i>Advanced Energy Materials</i> , 11(36), 06 August 2021, doi: <a href="https://doi.org/10.1002/aenm.202101699">https://doi.org/10.1002/aenm.202101699</a> .   |
|              | #ZHANG Rong, #GUO Ying, #ZHANG Shaoce, #CHEN Dong, #ZHAO Yuwei, #HUANG Zhaodong, MA Longtao, #LI Pei, YANG Qi, LIANG Guojin, ZHI Chunyi, "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i> , 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a> .  |
|              | #ZHAO Yuwei, JIANG Feng, #HONG Hu, WANG Donghong, #LI Qing, #MENG You, #HUANG Zhaodong, #GUO Ying, #LI Xinliang, #CHEN Ao, #ZHANG Rong, #ZHANG Shaoce, HO Johnny Chung Yin, YAO Zhenpeng, LIU Weishu, ZHI Chunyi, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i> , 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a> . |
|              | #GUO Ying, #ZHANG Shaoce, #ZHANG Rong, WANG Donghong, ZHU Daming, WANG Xuewan, XIAO Diwen, LI Na, #ZHAO Yuwei, #HUANG Zhaodong, XU Wenjie, CHEN Shuangming, SONG Li, FAN Jun, CHEN Qing, ZHI Chunyi, "Electrochemical Nitrate Production via Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets", <i>ACS Nano</i> , 16(1), 22 December 2021, pp 655–663, doi: <a href="https://doi.org/10.1021/acsnano.1c08109">https://doi.org/10.1021/acsnano.1c08109</a> .                                  |
|              | #LI Pei, #LI Xinliang, #GUO Ying, #LI Chuan, #HOU Yue, #CUI Huilin, #ZHANG Rong, #HUANG Zhaodong, #ZHAO Yuwei, #LI Qing, DONG Binbin, ZHI Chunyi, "Highly Thermally/Electrochemically Stable I <sup>-</sup> /I <sub>3</sub> <sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I <sub>2</sub> Batteries", <i>Advanced Energy Materials</i> , 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a> .                                    |
| ZHANG Shaoce | #ZHANG Rong, #WU Zhuoxi, #HUANG Zhaodong, #GUO Ying, #ZHANG Shaoce, #ZHAO Yuwei, ZHI Chunyi, "Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery", <i>Chinese Chemical Letters</i> , 13 June 2022, doi: <a href="https://doi.org/10.1016/j.ccllet.2022.06.023">https://doi.org/10.1016/j.ccllet.2022.06.023</a> .   |
|              | #CHEN Dong, #ZHANG Shaoce, BU Xiuming, #ZHANG Rong, #QUAN Quan, #LAI Zhengxun, #WANG Wei, #MENG You, #YIN Di, YIP Sen Po, LIU Chuntai, ZHI Chunyi, HO Johnny Chung Yin, "Synergistic modulation of local environment for electrochemical nitrate reduction via asymmetric vacancies and adjacent ion clusters", <i>Nano Energy</i> , 98, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107338">https://doi.org/10.1016/j.nanoen.2022.107338</a> .   |
|              | #ZHAO Yuwei, ZHU Yongbin, JIANG Feng, LI Yiyao, #MENG You, #GUO Ying, #LI Qing, #HUANG Zhaodong, #ZHANG Shaoce, #ZHANG Rong, HO Johnny Chung Yin, ZHANG Qianfan, LIU Weishu, ZHI Chunyi, "Vacancy Modulating Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i> , 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a> .                         |
|              | #ZHANG Rong, #ZHANG Shaoce, #GUO Ying, #LI Chuan, #LIU Jiahua, #HUANG Zhaodong, #ZHAO Yuwei, LI Yangyang, ZHI Chunyi, "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt  |

## Section A: Publications of PhD Students

|                    |  |
|--------------------|--|
|                    | oxide nanotubes", <i>Energy &amp; Environmental Science</i> , 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a> .   |
|                    | # <a href="#">GUO Ying</a> , <a href="#">GU Jinxing</a> , # <a href="#">ZHANG Rong</a> , # <a href="#">ZHANG Shaoce</a> , <a href="#">LI Zhen</a> , # <a href="#">ZHAO Yuwei</a> , # <a href="#">HUANG Zhaodong</a> , <a href="#">FAN Jun</a> , <a href="#">CHEN Zhongfang</a> , <a href="#">ZHI Chunyi</a> , "Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction", <i>Advanced Energy Materials</i> , 11(36), 06 August 2021, doi: <a href="https://doi.org/10.1002/aenm.202101699">https://doi.org/10.1002/aenm.202101699</a> .  |
|                    | # <a href="#">ZHANG Rong</a> , # <a href="#">GUO Ying</a> , # <a href="#">ZHANG Shaoce</a> , # <a href="#">CHEN Dong</a> , # <a href="#">ZHAO Yuwei</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">MA Longtao</a> , # <a href="#">LI Pei</a> , # <a href="#">YANG Qi</a> , # <a href="#">LIANG Guojin</a> , # <a href="#">ZHI Chunyi</a> , "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i> , 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a> .  |
|                    | # <a href="#">ZHAO Yuwei</a> , # <a href="#">JIANG Feng</a> , # <a href="#">HONG Hu</a> , # <a href="#">WANG Donghong</a> , # <a href="#">LI Qing</a> , # <a href="#">MENG You</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">GUO Ying</a> , # <a href="#">LI Xinliang</a> , # <a href="#">CHEN Ao</a> , # <a href="#">ZHANG Rong</a> , # <a href="#">ZHANG Shaoce</a> , # <a href="#">HO Johnny Chung Yin</a> , # <a href="#">YAO Zhenpeng</a> , # <a href="#">LIU Weishu</a> , # <a href="#">ZHI Chunyi</a> , "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i> , 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a> . |
|                    | # <a href="#">GUO Ying</a> , # <a href="#">ZHANG Shaoce</a> , # <a href="#">ZHANG Rong</a> , # <a href="#">WANG Donghong</a> , # <a href="#">ZHU Daming</a> , # <a href="#">WANG Xuewan</a> , # <a href="#">XIAO Diwen</a> , # <a href="#">LI Na</a> , # <a href="#">ZHAO Yuwei</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">XU Wenjie</a> , # <a href="#">CHEN Shuangming</a> , # <a href="#">SONG Li</a> , # <a href="#">FAN Jun</a> , # <a href="#">CHEN Qing</a> , # <a href="#">ZHI Chunyi</a> , "Electrochemical Nitrate Production via Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets", <i>ACS Nano</i> , 16(1), 22 December 2021, pp 655-663, doi: <a href="https://doi.org/10.1021/acsnano.1c08109">https://doi.org/10.1021/acsnano.1c08109</a> .                             |
| <b>ZHANG Xin</b>   | <a href="#">SUO Hao</a> , # <a href="#">ZHANG Xin</a> , # <a href="#">WANG Feng</a> , "Controlling X-ray-activated persistent luminescence for emerging applications", <i>Trends in Chemistry</i> , 4(8), 31 May 2022, pp 726-738, doi: <a href="https://doi.org/10.1016/j.trechm.2022.05.001">https://doi.org/10.1016/j.trechm.2022.05.001</a> .  |
|                    | # <a href="#">WANG Yanze</a> , # <a href="#">CHEN Bing</a> , # <a href="#">ZHANG Xin</a> , # <a href="#">SUO Hao</a> , # <a href="#">ZHENG Weilin</a> , # <a href="#">SHEN Junda</a> , # <a href="#">LI Yangyang</a> , # <a href="#">WANG Feng</a> , "Doubly Doped BaZnOS Microcrystals for Multicolor Luminescence Switching", <i>Advanced Optical Materials</i> , 27 January 2022, doi: <a href="https://doi.org/10.1002/adom.202102430">https://doi.org/10.1002/adom.202102430</a> .  |
|                    | <a href="#">SUO Hao</a> , # <a href="#">ZHU Qi</a> , # <a href="#">ZHANG Xin</a> , # <a href="#">CHEN Bing</a> , # <a href="#">CHEN Jiangkun</a> , # <a href="#">WANG Feng</a> , "High-security anti-counterfeiting through upconversion luminescence", <i>Materials Today Physics</i> , 21, 08 September 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100520">https://doi.org/10.1016/j.mtphys.2021.100520</a> .   |
|                    | <a href="#">SUO Hao</a> , # <a href="#">WANG Yu</a> , # <a href="#">ZHAO Xiaoqi</a> , # <a href="#">ZHANG Xin</a> , # <a href="#">LI Leipeng</a> , # <a href="#">GUAN Kuiwen</a> , # <a href="#">DING Wenge</a> , # <a href="#">LI Panlai</a> , # <a href="#">WANG Zhijun</a> , # <a href="#">WANG Feng</a> , "Rapid Nondestructive Detection Enabled by an Ultra-Broadband NIR pc-LED", <i>Laser and Photonics Reviews</i> , 16(7), 07 April 2022, doi: <a href="https://doi.org/10.1002/lpor.202200012">https://doi.org/10.1002/lpor.202200012</a> .   |
| <b>ZHANG Yaqin</b> | # <a href="#">MA Ninggui</a> , # <a href="#">WANG Yuhang</a> , # <a href="#">ZHANG Yaqin</a> , # <a href="#">LIANG Bochun</a> , # <a href="#">ZHAO Jun</a> , # <a href="#">FAN Jun</a> , "First-principles screening of Pt doped Ti <sub>2</sub> CNL (N = O, S and Se, L = F, Cl, Br and I) as high-performance catalysts for ORR/OER", <i>Applied Surface Science</i> , 596, 05 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153574">https://doi.org/10.1016/j.apsusc.2022.153574</a> .  |
|                    | # <a href="#">ZHANG Yaqin</a> , # <a href="#">TAN Xin</a> , # <a href="#">DING Weilu</a> , # <a href="#">WANG Yanlei</a> , # <a href="#">HE Hongyan</a> , # <a href="#">YU Zhiwu</a> , "Tracking the Micro-Heterogeneity and Hydrogen-bonding Interactions in Hydroxyl-Functionalized Ionic Liquid Solutions: A Combined Experimental and Computational Study", <i>ChemPhysChem</i> , 22(18), 08 July 2021, pp 1891-1899, doi: <a href="https://doi.org/10.1002/cphc.202100395">https://doi.org/10.1002/cphc.202100395</a> .   |
|                    | # <a href="#">MA Ninggui</a> , # <a href="#">LI Na</a> , # <a href="#">ZHANG Yaqin</a> , # <a href="#">WANG Tairan</a> , # <a href="#">ZHAO Jun</a> , # <a href="#">FAN Jun</a> , "Strain adjustment Pt-doped Ti <sub>2</sub> CO <sub>2</sub> as an efficient bifunctional catalyst for oxygen reduction reactions and oxygen evolution reactions by first-principles calculations", <i>Applied Surface Science</i> , 590, 21 March 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153149">https://doi.org/10.1016/j.apsusc.2022.153149</a> .   |
| <b>ZHANG Yu</b>    | # <a href="#">MA Yingxin</a> , # <a href="#">ZHANG Yu</a> , # <a href="#">XING Mengyuan</a> , # <a href="#">KANG Sailei</a> , # <a href="#">DU Mengmeng</a> , # <a href="#">QIU Bochong</a> , # <a href="#">CHAI Yang</a> , "Spin state engineering of spinel oxides by integration of Cr doping and a p-n junction for water oxidation", <i>Chemical Communications</i> , 58(46), 13 May 2022, pp 6642-6645, doi: <a href="https://doi.org/10.1039/d2cc02175g">https://doi.org/10.1039/d2cc02175g</a> .   |

## Section A: Publications of PhD Students

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|----------------------|---|
| <b>ZHANG Yuefeng</b> | # <a href="#">LI Dan</a> , # <a href="#">ZHANG Yuefeng</a> , <a href="#">ZHOU Xiaomin</a> , # <a href="#">HUANG Chao</a> , <a href="#">WEN Ying</a> , # <a href="#">LIU Liangliang</a> , <a href="#">LI Qingwei</a> , <a href="#">XU Yue</a> , # <a href="#">WU Yuzheng</a> , # <a href="#">RUAN Qingdong</a> , <a href="#">MA Yinghe</a> , <a href="#">XIONG Fangyu</a> , # <a href="#">XIAO Dezhi</a> , # <a href="#">LIU Pei</a> , <a href="#">WANG Guomin</a> , # <a href="#">MEHRJOU Babak</a> , <a href="#">WANG Bin</a> , <a href="#">LI Hao</a> , <a href="#">CHEN Rongsheng</a> , <a href="#">NI Hongwei</a> , # <a href="#">ZENG Zhiyuan</a> , # <a href="#">CHU Paul Kim Ho</a> , "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                      | <a href="#">QIU Bocheng</a> , # <a href="#">ZHANG Yuefeng</a> , <a href="#">GUO Xuyun</a> , <a href="#">MA Yingxin</a> , <a href="#">DU Mengmeng</a> , # <a href="#">FAN Jun</a> , <a href="#">ZHU Ye</a> , # <a href="#">ZENG Zhiyuan</a> , # <a href="#">CHAI Yang</a> , "Nitrogen-induced interfacial electronic structure of NiS <sub>2</sub> /CoS <sub>2</sub> with optimized water and hydrogen binding abilities for efficient alkaline hydrogen evolution electrocatalysis", <i>Journal of Materials Chemistry A</i> , 10(2), 22 November 2021, pp 719-725, doi: <a href="https://doi.org/10.1039/d1ta07186f">https://doi.org/10.1039/d1ta07186f</a> .  |
|                      | # <a href="#">YANG Ruijie</a> , # <a href="#">ZHANG Yuefeng</a> , <a href="#">FAN Yingying</a> , <a href="#">WANG Renheng</a> , <a href="#">ZHU Rongshu</a> , <a href="#">TANG Yuxin</a> , <a href="#">YIN Zongyou</a> , # <a href="#">ZENG Zhiyuan</a> , "InVO <sub>4</sub> -based photocatalysts for energy and environmental applications", <i>Chemical Engineering Journal</i> , 428, 06 July 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.131145">https://doi.org/10.1016/j.cej.2021.131145</a> .  |
|                      | # <a href="#">ZHANG Yuefeng</a> , # <a href="#">ZENG Zhiyuan</a> , <a href="#">LI Hao</a> , "Design of 3d transition metal anchored B <sub>5</sub> N <sub>3</sub> catalysts for electrochemical CO <sub>2</sub> reduction to methane", <i>Journal of Materials Chemistry A</i> , 10(17), 25 March 2022, pp 9737-9745, doi: <a href="https://doi.org/10.1039/d2ta00941b">https://doi.org/10.1039/d2ta00941b</a> .  |
|                      | # <a href="#">YANG Ruijie</a> , <a href="#">GUO Zhongjie</a> , <a href="#">CAI Lixin</a> , <a href="#">ZHU Rongshu</a> , # <a href="#">FAN Yingying</a> , # <a href="#">ZHANG Yuefeng</a> , # <a href="#">HAN Pingping</a> , # <a href="#">ZHANG Wanjian</a> , # <a href="#">ZHU Xiangang</a> , # <a href="#">ZHAO Qitong</a> , # <a href="#">ZHU Zhenye</a> , # <a href="#">CHAN Chak Keung</a> , # <a href="#">ZENG Zhiyuan</a> , "Investigation into the Phase-Activity Relationship of MnO <sub>2</sub> Nanomaterials toward Ozone-Assisted Catalytic Oxidation of Toluene", <i>Small</i> , 17(50), 31 October 2021, doi: <a href="https://doi.org/10.1002/sml.202103052">https://doi.org/10.1002/sml.202103052</a> .   |
|                      | # <a href="#">GUO Weihua</a> , # <a href="#">ZHANG Yuefeng</a> , # <a href="#">SU Jianjun</a> , # <a href="#">SONG Yun</a> , # <a href="#">HUANG Libei</a> , # <a href="#">CHENG Le</a> , # <a href="#">CAO Xiaohu</a> , # <a href="#">DOU Yubing</a> , # <a href="#">MA Yangbo</a> , # <a href="#">MA Chenyan</a> , # <a href="#">ZHU He</a> , # <a href="#">ZHENG Tingting</a> , # <a href="#">WANG Zhaoyu</a> , # <a href="#">LI Hao</a> , # <a href="#">FAN Zhanxi</a> , # <a href="#">LIU Qi</a> , # <a href="#">ZENG Zhiyuan</a> , # <a href="#">DONG Juncai</a> , # <a href="#">XIA Chuan</a> , # <a href="#">TANG Ben Zhong</a> , # <a href="#">YE Ruquan</a> , "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO <sub>2</sub> to Formate", <i>Small</i> , 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a> .   |
| <b>ZHAO Chenghao</b> | # <a href="#">ZHOU Binbin</a> , # <a href="#">OU Weihui</a> , # <a href="#">SHEN Junda</a> , # <a href="#">ZHAO Chenghao</a> , # <a href="#">ZHONG Jing</a> , # <a href="#">DU Peng</a> , # <a href="#">BIAN Haidong</a> , # <a href="#">LI Pan</a> , # <a href="#">YANG Liangbao</a> , # <a href="#">LU Jian</a> , # <a href="#">LI Yangyang</a> , "Controlling Plasmon-Aided Reduction of <i>p</i> -Nitrothiophenol by Tuning the Illumination Wavelength", <i>ACS Catalysis</i> , 11(24), 29 November 2021, pp 14898-14905, doi: <a href="https://doi.org/10.1021/acscatal.1c04091">https://doi.org/10.1021/acscatal.1c04091</a> .   |
| <b>ZHAO Jun</b>      | # <a href="#">MA Ninggui</a> , # <a href="#">WANG Yuhang</a> , # <a href="#">ZHANG Yaqin</a> , # <a href="#">LIANG Bochun</a> , # <a href="#">ZHAO Jun</a> , # <a href="#">FAN Jun</a> , "First-principles screening of Pt doped Ti <sub>2</sub> CNL (N = O, S and Se, L = F, Cl, Br and I) as high-performance catalysts for ORR/OER", <i>Applied Surface Science</i> , 596, 05 May 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153574">https://doi.org/10.1016/j.apsusc.2022.153574</a> .   |
|                      | # <a href="#">MA Ninggui</a> , # <a href="#">LI Na</a> , # <a href="#">ZHANG Yaqin</a> , # <a href="#">WANG Tairan</a> , # <a href="#">ZHAO Jun</a> , # <a href="#">FAN Jun</a> , "Strain adjustment Pt-doped Ti <sub>2</sub> CO <sub>2</sub> as an efficient bifunctional catalyst for oxygen reduction reactions and oxygen evolution reactions by first-principles calculations", <i>Applied Surface Science</i> , 590, 21 March 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153149">https://doi.org/10.1016/j.apsusc.2022.153149</a> .  |
| <b>ZHAO Xin</b>      | # <a href="#">ZHENG Xuerong</a> , # <a href="#">ZHAO Xin</a> , # <a href="#">LU Junda</a> , # <a href="#">LI Jihong</a> , # <a href="#">MIAO Zhengpei</a> , # <a href="#">XU Wei</a> , # <a href="#">DENG Yida</a> , # <a href="#">ROGACH Andrey</a> , "Regeneration of spent cathodes of Li-ion batteries into multifunctional electrodes for overall water splitting and rechargeable Zn-air batteries by ultrafast carbothermal shock", <i>Science China Materials</i> , 65(9), 07 April 2022, pp 2393-2400, doi: <a href="https://doi.org/10.1007/s40843-021-1984-8">https://doi.org/10.1007/s40843-021-1984-8</a> .  |
| <b>ZHAO Yuwei</b>    | # <a href="#">LI Qing</a> , # <a href="#">CHEN Ao</a> , # <a href="#">WANG Donghong</a> , # <a href="#">ZHAO Yuwei</a> , # <a href="#">WANG Xiaoqi</a> , # <a href="#">JIN Xu</a> , # <a href="#">XIONG Bo</a> , # <a href="#">ZHI Chunyi</a> , "Tailoring the metal electrode morphology via electrochemical protocol optimization for long-lasting aqueous zinc batteries", <i>Nature Communications</i> , 13, 27 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31461-7">https://doi.org/10.1038/s41467-022-31461-7</a> .   |
|                      | # <a href="#">ZHANG Rong</a> , # <a href="#">WU Zhuoxi</a> , # <a href="#">HUANG Zhaodong</a> , # <a href="#">GUO Ying</a> , # <a href="#">ZHANG Shaoce</a> , # <a href="#">ZHAO Yuwei</a> , # <a href="#">ZHI Chunyi</a> , "Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery", <i>Chinese Chemical Letters</i> , 13 June 2022, doi: <a href="https://doi.org/10.1016/j.ccl.2022.06.023">https://doi.org/10.1016/j.ccl.2022.06.023</a> .   |



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|--|
| #LI Xinliang, #LI Qing, #HOU Yue, YANG Qi, #CHEN Ze, #HUANG Zhaodong, LIANG Guojin, #ZHAO Yuwei, MA Longtao, LI Mian, HUANG Qing, ZHI Chunyi, "Toward a Practical Zn Powder Anode: Ti <sub>3</sub> C <sub>2</sub> Tx MXene as a Lattice-Match Electrons/Ions Redistributor", <i>ACS Nano</i> , 15(9), 03 September 2021, pp 14631–14642, doi: <a href="https://doi.org/10.1021/acsnano.1c04354">https://doi.org/10.1021/acsnano.1c04354</a> .  |
| WANG Donghong, #LI Qing, YING Wang, HAN Cuiping, WANG Yu, #ZHAO Yuwei, LI Hongfei, ZHI Chunyi, "H <sub>2</sub> -Inhibited Organic Anodes for Fast and Long-Life Aqueous Aluminum Ion Batteries with a 3.5-Month Calendar Life", <i>Small</i> , 18(22), 06 May 2022, doi: <a href="https://doi.org/10.1002/sml.202200463">https://doi.org/10.1002/sml.202200463</a> .   |
| WANG Donghong, #GUO Xun, #CHEN Ze, #ZHAO Yuwei, #LI Qing, ZHI Chunyi, "Ionic Liquid Softened Polymer Electrolyte for Anti-Drying Flexible Zinc Ion Batteries", <i>ACS Applied Materials &amp; Interfaces</i> , 14(23), 06 June 2022, pp 27287-27293, doi: <a href="https://doi.org/10.1021/acsmi.2c06793">https://doi.org/10.1021/acsmi.2c06793</a> .  |
| #ZHAO Yuwei, ZHU Yongbin, JIANG Feng, LI Yiyao, #MENG You, #GUO Ying, #LI Qing, #HUANG Zhaodong, #ZHANG Shaoce, #ZHANG Rong, HO Johnny Chung Yin, ZHANG Qianfan, LIU Weishu, ZHI Chunyi, "Vacancy Modulating Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> Topological Semimetal for Aqueous Zinc-Ion Batteries", <i>Angewandte Chemie - International Edition</i> , 61(2), 15 October 2021, doi: <a href="https://doi.org/10.1002/anie.202111826">https://doi.org/10.1002/anie.202111826</a> .   |
| #ZHANG Rong, #ZHANG Shaoce, #GUO Ying, #LI Chuan, #LIU Jiahua, #HUANG Zhaodong, #ZHAO Yuwei, LI Yangyang, ZHI Chunyi, "A Zn-nitrite battery as an energy-output electrocatalytic system for high-efficiency ammonia synthesis using carbon-doped cobalt oxide nanotubes", <i>Energy &amp; Environmental Science</i> , 15(7), 31 May 2022, pp 3024-3032, doi: <a href="https://doi.org/10.1039/d2ee00686c">https://doi.org/10.1039/d2ee00686c</a> .   |
| #LI Qing, WANG Donghong, #YAN Boxun, #ZHAO Yuwei, FAN Jun, ZHI Chunyi, "Dendrite Issues for Zinc Anodes in a Flexible Cell Configuration for Zinc-Based Wearable Energy-Storage Devices", <i>Angewandte Chemie (International Edition)</i> , 61(25), 28 March 2022, doi: <a href="https://doi.org/10.1002/anie.202202780">https://doi.org/10.1002/anie.202202780</a> .   |
| #GUO Ying, GU Jinxing, #ZHANG Rong, #ZHANG Shaoce, LI Zhen, #ZHAO Yuwei, #HUANG Zhaodong, FAN Jun, CHEN Zhongfang, ZHI Chunyi, "Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction", <i>Advanced Energy Materials</i> , 11(36), 06 August 2021, doi: <a href="https://doi.org/10.1002/aenm.202101699">https://doi.org/10.1002/aenm.202101699</a> .   |
| WANG Donghong, #LI Qing, #ZHAO Yuwei, #HONG Hu, LI Hongfei, #HUANG Zhaodong, LIANG Guojin, YANG Qi, ZHI Chunyi, "Insight on Organic Molecules in Aqueous Zn-Ion Batteries with an Emphasis on the Zn Anode Regulation", <i>Advanced Energy Materials</i> , 12(9), 17 January 2022, doi: <a href="https://doi.org/10.1002/aenm.202102707">https://doi.org/10.1002/aenm.202102707</a> .  |
| #ZHANG Rong, #GUO Ying, #ZHANG Shaoce, #CHEN Dong, #ZHAO Yuwei, #HUANG Zhaodong, MA Longtao, #LI Pei, YANG Qi, LIANG Guojin, ZHI Chunyi, "Efficient Ammonia Electrosynthesis and Energy Conversion through a Zn-Nitrate Battery by Iron Doping Engineered Nickel Phosphide Catalyst", <i>Advanced Energy Materials</i> , 12(13), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103872">https://doi.org/10.1002/aenm.202103872</a> .  |
| #ZHAO Yuwei, LU Yue, LI Huiping, ZHU Yongbin, #MENG You, LI Na, WANG Donghong, JIANG Feng, MO Funian, LONG Changbai, #GUO Ying, #LI Xinliang, #HUANG Zhaodong, #LI Qing, HO Johnny Chung Yin, FAN Jun, SUI Manling, CHEN Fu-Rong, ZHU Wenguang, LIU Weishu, ZHI Chunyi, "Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries", <i>Nature Communications</i> , 13, 08 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28380-y">https://doi.org/10.1038/s41467-022-28380-y</a> . |
| #ZHAO Yuwei, JIANG Feng, #HONG Hu, WANG Donghong, #LI Qing, #MENG You, #HUANG Zhaodong, #GUO Ying, #LI Xinliang, #CHEN Ao, #ZHANG Rong, #ZHANG Shaoce, HO Johnny Chung Yin, YAO Zhenpeng, LIU Weishu, ZHI Chunyi, "Stable bismuth-antimony alloy cathode with a conversion-dissolution/deposition mechanism for high-performance zinc batteries", <i>Materials Today</i> , 51, 30 October 2021, pp 87-95, doi: <a href="https://doi.org/10.1016/j.mattod.2021.09.023">https://doi.org/10.1016/j.mattod.2021.09.023</a> .                         |
| #GUO Ying, #ZHANG Shaoce, #ZHANG Rong, WANG Donghong, ZHU Daming, WANG Xuewan, XIAO Diwen, LI Na, #ZHAO Yuwei, #HUANG Zhaodong, XU Wenjie, CHEN Shuangming, SONG Li, FAN Jun, CHEN Qing, ZHI Chunyi, "Electrochemical Nitrate  |

## Section A: Publications of PhD Students

|                    |  |
|--------------------|--|
|                    | <p>Production <i>via</i> Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets", <i>ACS Nano</i>, 16(1), 22 December 2021, pp 655–663, doi: <a href="https://doi.org/10.1021/acsnano.1c08109">https://doi.org/10.1021/acsnano.1c08109</a>.</p> <p>#<a href="#">LI Pei</a>, #<a href="#">LI Xinliang</a>, #<a href="#">GUO Ying</a>, #<a href="#">LI Chuan</a>, #<a href="#">HOU Yue</a>, #<a href="#">CUI Huilin</a>, #<a href="#">ZHANG Rong</a>, #<a href="#">HUANG Zhaodong</a>, #<a href="#">ZHAO Yuwei</a>, #<a href="#">LI Qing</a>, DONG Binbin, <a href="#">ZHI Chunyi</a>, "Highly Thermally/Electrochemically Stable I<sup>-</sup>/I<sub>3</sub><sup>-</sup> Bonded Organic Salts with High I Content for Long-Life Li-I<sub>2</sub> Batteries", <i>Advanced Energy Materials</i>, 24 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103648">https://doi.org/10.1002/aenm.202103648</a>.</p>  |
| <b>ZHENG Yini</b>  | <p>LI Mingjie, LUO Wenxin, CHEN Yulong, #<a href="#">ZHENG Yini</a>, CHENG Xing, "Fabrication and nanoindentation characterization of nickel micro-pillar mold for nanoimprint lithography", <i>Microelectronic Engineering</i>, 250, 05 October 2021, doi: <a href="https://doi.org/10.1016/j.mee.2021.111636">https://doi.org/10.1016/j.mee.2021.111636</a>.</p>   |
| <b>ZHENG Zhong</b> | <p><a href="#">ZHU Zelin</a>, GNANASEKARAN Premkumar, #<a href="#">YAN Jie</a>, #<a href="#">ZHENG Zhong</a>, <a href="#">LEE Chun Sing</a>, <a href="#">CHI Yun</a>, ZHOU Xiuwen, "Efficient Blue Electrophosphorescence and Hyperphosphorescence Generated by Bis-tridentate Iridium(III) Complexes", <i>Inorganic Chemistry</i>, 61(23), 30 May 2022, pp 8898–8908, doi: <a href="https://doi.org/10.1021/acs.inorgchem.2c01026">https://doi.org/10.1021/acs.inorgchem.2c01026</a>.</p> <p>#<a href="#">ZHENG Zhong</a>, <a href="#">ZHU Zelin</a>, HO Cheuk-Lam, YIU Shek Man Ken, <a href="#">LEE Chun Sing</a>, SURAMITR Songwut, HANNONGBUA Supa, <a href="#">CHI Yun</a>, "Stepwise Access of Emissive Ir(III) Complexes Bearing a Multi-Dentate Heteroaromatic Chelate: Fundamentals and Applications", <i>Inorganic Chemistry</i>, 61(10), 04 March 2022, pp 4384–4393, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c03794">https://doi.org/10.1021/acs.inorgchem.1c03794</a>.</p> <p>KWOK Yan-Yi, HO Po-Yu, WEI Ying, #<a href="#">ZHENG Zhong</a>, YIU Sze-Chun, HO Cheuk-Lam, HUANG Shuping, "Molecular Engineering of Robust Starburst-Based Organic Photosensitizers for Highly Efficient Photocatalytic Hydrogen Generation from Water", <i>Chemistry of Materials</i>, 34(12), 09 June 2022, pp 5522–5534, doi: <a href="https://doi.org/10.1021/acs.chemmater.2c00556">https://doi.org/10.1021/acs.chemmater.2c00556</a>.</p> <p><a href="#">JIN Jibiao</a>, <a href="#">ZHU Zelin</a>, #<a href="#">YAN Jie</a>, ZHOU Xiuwen, #<a href="#">CAO Chen</a>, CHOU Pi-Tai, ZHANG Ye-Xin, #<a href="#">ZHENG Zhong</a>, <a href="#">LEE Chun Sing</a>, <a href="#">CHI Yun</a>, "Iridium(III) Phosphors-Bearing Functional 9-Phenyl-7,9-dihydro-8H-purin-8-ylidene Chelates and Blue Hyperphosphorescent OLED Devices", <i>Advanced Photonics Research</i>, 3(7), 08 March 2022, doi: <a href="https://doi.org/10.1002/adpr.202100381">https://doi.org/10.1002/adpr.202100381</a>.</p> |
| <b>ZHONG Jing</b>  | <p>#<a href="#">LI Hongkun</a>, #<a href="#">ZHONG Jing</a>, #<a href="#">SHEN Junda</a>, #<a href="#">LIU Jiahua</a>, #<a href="#">LI Bo</a>, #<a href="#">TANG Xinxue</a>, #<a href="#">PAN Jie</a>, XU Zhengtao, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Water-assisted sintering of silica: Densification mechanisms and their possible implications in biomineralization", <i>Journal of the American Ceramic Society</i>, 105(4), 03 December 2021, pp 2945-2954, doi: <a href="https://doi.org/10.1111/jace.18268">https://doi.org/10.1111/jace.18268</a>.</p> <p><a href="#">ZHOU Binbin</a>, <a href="#">OU Weihui</a>, #<a href="#">SHEN Junda</a>, #<a href="#">ZHAO Chenghao</a>, #<a href="#">ZHONG Jing</a>, #<a href="#">DU Peng</a>, BIAN Haidong, LI Pan, YANG Liangbao, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "Controlling Plasmon-Aided Reduction of <i>p</i>-Nitrothiophenol by Tuning the Illumination Wavelength", <i>ACS Catalysis</i>, 11(24), 29 November 2021, pp 14898-14905, doi: <a href="https://doi.org/10.1021/acscatal.1c04091">https://doi.org/10.1021/acscatal.1c04091</a>.</p> <p><a href="#">ZHOU Binbin</a>, #<a href="#">ZHONG Jing</a>, #<a href="#">TANG Xinxue</a>, #<a href="#">LIU Jiahua</a>, #<a href="#">SHEN Junda</a>, <a href="#">WANG Chong</a>, <a href="#">OU Weihui</a>, WANG Hao, #<a href="#">LIU Lu</a>, #<a href="#">PAN Jie</a>, <a href="#">LU Jian</a>, <a href="#">LI Yangyang</a>, "In situ Surface-Enhanced Raman Spectroscopy Monitoring of Molecular Reorientation in Plasmon-Mediated Chemical Reactions", <i>Journal of Catalysis</i>, 413, 20 June 2022, pp 527-533, doi: <a href="https://doi.org/10.1016/j.jcat.2022.06.028">https://doi.org/10.1016/j.jcat.2022.06.028</a>.</p>   |
| <b>ZHOU Rui</b>    | <p>LI Mou, #<a href="#">ZHOU Rui</a>, DU Meng, CAO Yuan-Kui, LIU Bin, LIU Yong, "W 颗粒增强 Ti 基金属-金属复合材料的准静态和动态力学行为", <i>中国有色金属学报</i>, 32(1), 20 August 2021, pp 66-75, doi: <a href="https://doi.org/10.11817/j.ysxb.1004.0609.2021-37881">https://doi.org/10.11817/j.ysxb.1004.0609.2021-37881</a>.</p> <p>LIU Shuyu, ZHANG Wei, PENG Yingbo, #<a href="#">ZHOU Rui</a>, WANG Haijiang, MA Qingyuan, "Microstructure evolution and mechanical properties of in-situ multi-component carbides reinforced FeCoNi alloy", <i>Journal of Alloys and Compounds</i>, 886, 17 July 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.161215">https://doi.org/10.1016/j.jallcom.2021.161215</a>.</p> <p>#<a href="#">HUANG Jing</a>, #<a href="#">LI Wanpeng</a>, HE Junyang, #<a href="#">ZHOU Rui</a>, #<a href="#">CHOU Tzu Hsiu</a>, <a href="#">YANG Tao</a>, <a href="#">LIU Chain Tsuan</a>, ZHANG Weidong, LIU Yong, <a href="#">HUANG Chih-Ching</a>, "Dual heterogeneous</p>   |

Section A: Publications of PhD Students

|   |  |
|---|--|
|   | structure facilitating an excellent strength-ductility combination in an additively manufactured multi-principal-element alloy", <i>Materials Research Letters</i> , 10(9), 03 May 2022, pp 575-584, doi: <a href="https://doi.org/10.1080/21663831.2022.2067790">https://doi.org/10.1080/21663831.2022.2067790</a> .  |
|   | #CHEN Wenyu, #CHEN Yen Hsiang, #LI Wanpeng, #ZHOU Rui, #CHOU Tzu Hsiu, WANG Xu, HUANG Chih-Ching, "Passivation evolution of Ti-Ta-Nb medium-entropy sputtered thin films in sulfuric acid solution", <i>Applied Surface Science</i> , 576(B), 10 November 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151824">https://doi.org/10.1016/j.apsusc.2021.151824</a> .   |
| <b>ZHU Anquan</b>                                     | DONG Rui, #ZHU Anquan, TAN Pengfei, LIU Yong, JIANG Min, YANG Lu, XIE Jianping, PAN Jun, "Boosting hydrogen and oxygen evolution of porous CoP nanosheet arrays through electronic modulating with oxygen-anion-incorporation", <i>Journal of Colloid and Interface Science</i> , 622, 20 April 2022, pp 239-249, doi: <a href="https://doi.org/10.1016/j.jcis.2022.04.013">https://doi.org/10.1016/j.jcis.2022.04.013</a> . |
| <b>ZHU Jiexiong</b>                                   | LIANG Guojin, #ZHU Jiexiong, #CHEN Ao, YANG Qi, ZHI Chunyi, "Adhesive and cohesive force matters in deformable batteries", <i>npj Flexible Electronics</i> , 5, 28 September 2021, doi: <a href="https://doi.org/10.1038/s41528-021-00124-w">https://doi.org/10.1038/s41528-021-00124-w</a> .  |
|   | LIANG Guojin, #ZHU Jiexiong, #YAN Boxun, #LI Qing, #CHEN Ao, #CHEN Ze, WANG Xiaoqi, XIONG Bo, FAN Jun, XU Jin, ZHI Chunyi, "Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry", <i>Energy &amp; Environmental Science</i> , 15(3), 03 February 2022, pp 1086-1096, doi: <a href="https://doi.org/10.1039/d1ee03749h">https://doi.org/10.1039/d1ee03749h</a> .                                  |
| <b>ZHU Lingyu</b>                                     | WEN Tongqi, #WANG Rui, #ZHU Lingyu, ZHANG Linfeng, WANG Han, SROLOVITZ David, WU Zhaoxuan, "Specialising neural network potentials for accurate properties and application to the mechanical response of titanium", <i>npj Computational Materials</i> , 7, 16 December 2021, doi: <a href="https://doi.org/10.1038/s41524-021-00661-y">https://doi.org/10.1038/s41524-021-00661-y</a> .                                     |
| <b>ZHU Qi</b>   | SUO Hao, #ZHU Qi, #ZHANG Xin, CHEN Bing, #CHEN Jiangkun, WANG Feng, "High-security anti-counterfeiting through upconversion luminescence", <i>Materials Today Physics</i> , 21, 08 September 2021, doi: <a href="https://doi.org/10.1016/j.mtphys.2021.100520">https://doi.org/10.1016/j.mtphys.2021.100520</a> .  |
|   | SUN Tianying, CHEN Bing, #GUO Yang, #ZHU Qi, ZHAO Jianxiong, LI Yuhua, CHEN Xian, WU Yunkai, GAO Yaobin, JIN Limin, CHU Sai Tak, WANG Feng, "Ultralarge anti-Stokes lasing through tandem upconversion", <i>Nature Communications</i> , 13, 24 February 2022, doi: <a href="https://doi.org/10.1038/s41467-022-28701-1">https://doi.org/10.1038/s41467-022-28701-1</a> .   |
|   | WANG Na, #DENG Zhiqin, #ZHU Qi, ZHAO Jianxiong, XIE Kai, SHI Peng, WANG Zhigang, CHEN Xianfeng, WANG Feng, SHI Jiahai, ZHU Guangyu, "An erythrocyte-delivered photoactivatable oxaliplatin nanoprodruge for enhanced antitumor efficacy and immune response", <i>Chemical Science</i> , 12(43), 06 October 2021, pp 14353-14362, doi: <a href="https://doi.org/10.1039/d1sc02941j">https://doi.org/10.1039/d1sc02941j</a> .  |
| <b>ZHU Xiaohong</b>                                   | #MA Xinyao, #ZHU Xiaohong, #HUANG Changxiong, FAN Jun, "Revealing the effects of terminal groups of MXene on the water desalination performance", <i>Journal of Membrane Science</i> , 647, 02 February 2022, doi: <a href="https://doi.org/10.1016/j.memsci.2022.120334">https://doi.org/10.1016/j.memsci.2022.120334</a> .   |
|   | #HUANG Changxiong, #ZHU Xiaohong, LI Zhen, #MA Xinyao, LI Na, #LUO Jun, FAN Jun, "Molecular insights into geometric and electrophoretic effects on DNA translocation speed through graphene nanoslit sensor", <i>Carbon</i> , 191, 04 February 2022, pp 415-423, doi: <a href="https://doi.org/10.1016/j.carbon.2022.01.068">https://doi.org/10.1016/j.carbon.2022.01.068</a> .  |
|   | LI Zhen, #ZHU Xiaohong, LI Jiawei, ZHONG Jie, ZHANG Jun, FAN Jun, "Molecular insights into the resistance of phospholipid heads to the membrane penetration of graphene nanosheets", <i>Nanoscale</i> , 14(14), 08 March 2022, pp 5384-5391, doi: <a href="https://doi.org/10.1039/d1nr07684a">https://doi.org/10.1039/d1nr07684a</a> .  |
| <b>Patents, agreements, assignments and companies</b> |  |
| <b>CHUNG Kam Sing</b>                                 | LAM Hon Wah Michael, YEUNG Chi Chung, LAU Siu Chuen, VELLAISAMY Arul Lenus Roy, #CHUNG Kam Sing, "Electrochemical Detector", Licensing Agreement with BioTech & Health, Hong Kong, 28 March 2022.  |
| <b>GUO Ying</b>                                       | ZHI Chunyi, YANG Qi, #GUO Ying, TANG Zijie, Method for Manipulating an Energy Storage Device, Patent No.: US11,283,112, United States, 22 March 2022.  |
| <b>SHEN Junda</b>                                     | LI Yangyang, LU Jian, ZHOU Binbin, #SHEN Junda, 金屬結構及用於金屬結構的表面處理的方法, Patent No.: ZL202010721579.6, China, 29 March 2022.   |

Section A: Publications of PhD Students

|                             |  |
|-----------------------------|--|
|                             | <u>LI Yangyang</u> , <u>LU Jian</u> , <u>ZHOU Binbin</u> , # <u>SHEN Junda</u> , Metallic Structure And A Method for Surface Treatment of A Metallic Structure, Patent No.: US11,053,605, United States, 06 July 2021.   |
|                             | <u>LU Jian</u> , <u>LI Yangyang</u> , <u>OU Weihui</u> , <u>ZHOU Binbin</u> , # <u>SHEN Junda</u> , # <u>ZHAO Chenghao</u> , Method for Treating A Surface of A Metallic Structure, Patent No.: US11,299,814, United States, 12 April 2022.  |
|                             | <u>ZHOU Binbin</u> , <u>LI Yangyang</u> , <u>LU Jian</u> , # <u>SHEN Junda</u> , "Metallic Structure And A Method for Surface Treatment of A Metallic Structure", Licensing Agreement with Deep Tech, Hong Kong, 31 May 2022.  |
| <b>ZHAO Chenghao</b>        | <u>LU Jian</u> , <u>LI Yangyang</u> , <u>OU Weihui</u> , <u>ZHOU Binbin</u> , # <u>SHEN Junda</u> , # <u>ZHAO Chenghao</u> , Method for Treating A Surface of A Metallic Structure, Patent No.: US11,299,814, United States, 12 April 2022.  |
| <b>ZHAO Yuwei</b>           | <u>ZHI Chunyi</u> , # <u>ZHAO Yuwei</u> , <u>TANG Zijie</u> , <u>MA Longtao</u> , An Energy Storage Device and an Electrode for an EnergyStorage Device, Patent No.: US 11,152,619 B2, 19 October 2021.  |
|                             | <u>ZHI Chunyi</u> , <u>TANG Zijie</u> , <u>MA Longtao</u> , # <u>ZHAO Yuwei</u> , Energy Storage Device And An Electrode for An Energy Storage Device, Patent No.: US11,152,619, United States, 19 October 2021.   |
| <b>All other outputs</b>    |  |
| <b>CHEN Chang</b>           | # <u>CHEN Chang</u> , <i>The Application of Multi-scaled Transition Metal Oxides Based Anodes for Lithium-ion Batteries</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 02 August 2021.   |
| <b>CHEN Wenyu</b>           | # <u>CHEN Wenyu</u> , <i>Corrosion Performance and Underlying Mechanisms of Multi-principal Element Alloys Prepared by Various Advanced Manufacturing Technologies</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 24 May 2022.   |
| <b>CHEN Yan</b>             | # <u>CHEN Yan</u> , <i>Development and Design of Desktop Ultrafast Low Voltage Transmission Electron Microscopy &amp; Quantum Electron Microscopy</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 20 September 2021.  |
| <b>CHEN Ze</b>              | <u>ZHI Chunyi</u> , # <u>CHEN Ze</u> , Silver Medal at 2022 Inventions Geneva Evaluation Days, The project "Safe Flexible Batteries and Their Applications" received the Silver Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022. |
| <b>CHOU Tzu Hsiu</b>        | # <u>CHOU Tzu Hsiu</u> , <i>Thermal Stability and Hetero-deformation Induced Strengthening of Multi-principal Element Alloys</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 02 June 2022.  |
| <b>DOERING Aaron</b>        | # <u>ECKHOFF Daniel</u> , # <u>DOERING Aaron</u> , <u>HAEBICH Jayson Kym</u> , Fintech Olympiad 2022 - Bronze & Award of Distinction, May 2022.  |
| <b>DU Peng</b>              | # <u>DU Peng</u> , <i>Amorphous Calcium Carbonate in Biomineralisation and Synthetic/Biomimetic Chemistry</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 17 August 2021.   |
| <b>DUAN Zonghui</b>         | # <u>DUAN Zonghui</u> , <i>Lead Halide Perovskite Based Functional Materials for Photodetectors and Light-Emitting Films</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.  |
| <b>FASASI Teslim Ayinde</b> | # <u>FASASI Teslim Ayinde</u> , <i>Magneto-electrical Study of Novel Materials and Devices for Energy Harvesting</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.  |
| <b>FU Yang</b>              | <u>YANG Ning</u> , # <u>FU Yang</u> , Second Prize of The 7th Hong Kong University Student Innovation and Entrepreneurship Competition, awarded the Second Prize of Entrepreneurship Proposal of the Competition, The 7th Hong Kong University Student Innovation and Entrepreneurship Competition, Innovation and Technology Commission, November 2021.   |
|                             | # <u>FU Yang</u> , <u>YANG Ning</u> , 优秀奖, “金湾杯”第八届“创青春”粤港澳大湾区青年创新创业大赛, “金湾杯”第八届“创青春”粤港澳大湾区青年创新创业大赛组委会办公室, 2021.   |

## Section A: Publications of PhD Students

|                               |   |
|-------------------------------|---|
| <b>GAN Shifeng</b>            | # <u>GAN Shifeng</u> , <i>Synthesis Design and Theranostic Applications of Novel Luminescent Materials with Aggregation-induced Emission Characteristics</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 20 May 2022.                                |
| <b>GUO Chen</b>               | # <u>GUO Chen</u> , <i>Theoretical Insight into Design and Screening of High-Efficient Carbon Dioxide Reduction Electrocatalysts</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 09 August 2021.   |
| <b>GUO Ying</b>               | # <u>GUO Ying</u> , <i>Strategic Improvement of Efficiency for Ambient Electrochemical Ammonia Synthesis</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 17 August 2021.   |
| <b>HE Kangqiang</b>           | # <u>HE Kangqiang</u> , <i>Study on Solid Composites Electrolytes for All-solid-state Lithium Ion Batteries</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 28 September 2021.   |
| <b>HUANG Changxiong</b>       | # <u>HUANG Changxiong</u> , <i>Molecular Dynamics Simulation Studies of Nanopore Sequencing Based on Two-Dimensional Materials Nanoslits</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 21 December 2021.   |
| <b>HUANG Zhaodong</b>         | # <u>HUANG Zhaodong</u> , <i>Effect of Anions and Dipole Molecules in Electrolytes on the Electrochemical Performance of Energy Storage Devices</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.                                      |
| <b>KANG Xiaolin</b>           | # <u>KANG Xiaolin</u> , <i>Syntheses of WS<sub>2</sub> Monolayer and vdW PdSe<sub>2</sub>/WS<sub>2</sub> Heterostructure for Electronic and Optoelectronic Devices</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 20 May 2022.                      |
| <b>KONG Jing</b>              | # <u>KONG Jing</u> , <i>Local Atomic Structure of Perovskite and Layered Perovskite Ferroelectrics</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 07 June 2022.   |
| <b>LI Wanpeng</b>             | # <u>LI Wanpeng</u> , <i>Study on the Microstructures and Mechanical Behaviors of Multi-principal Element Alloys Strengthened by Precipitations and Heterogeneous Grain Structures</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 14 July 2021.     |
| <b>LI Xinliang</b>            | # <u>LI Xinliang</u> , <i>MXene Components for Aqueous Energy Storage Devices</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.  |
| <b>MA Huan</b>                | # <u>MA Huan</u> , <i>The Effects of Refractory Elements (Hf/W) on Microstructure and Mechanical Properties of High Entropy Alloys</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 06 August 2021.   |
| <b>MENG You</b>               | # <u>MENG You</u> , <i>Advanced Optoelectronic Devices Based on Semiconducting Nanowires</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.   |
| <b>QIN Xiaomeng</b>           | # <u>QIN Xiaomeng</u> , <i>Strengthening and Welding of Face-Centered Cubic High Entropy Alloys</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 04 August 2021.  |
| <b>SARANGI Venkateshwarlu</b> | # <u>SARANGI Venkateshwarlu</u> , <i>A and B Site Substitutions of BaTiO<sub>3</sub> Based Ferroelectrics for Piezoelectric, Electrocaloric and High-Power Energy Storage Applications</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 22 July 2021. |
| <b>XIAO Fengping</b>          | # <u>XIAO Fengping</u> , <i>Metal-Organic Frameworks Derived Composite Materials for Sodium-ion Batteries</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.  |
| <b>YAN Jie</b>                | # <u>YAN Jie</u> , <i>Design, Synthesis and Applications of Bis-tridentate and Tris-bidentate Iridium (III) Phosphors</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 08 March 2022.   |
| <b>YAN Wenrong</b>            | # <u>YAN Wenrong</u> , <i>Synergistic Morphological and Defect Optimization in Graphene-based Electrodes with Applications in Microsupercapacitors</i> , PhD Thesis, Department of  |

Section A: Publications of PhD Students

|   |  |
|---|--|
|   | Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 28 April 2022.  |
| <b>ZHANG Xiangkai</b>                       | #ZHANG Xiangkai, <i>Microstructure and Mechanical Properties of Ti-based Lightweight Multi-Principal Element Alloys</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 19 July 2021.   |
| <b>ZHAO Yuwei</b>                           | #ZHAO Yuwei, <i>The Application of Bismuth Choriocompounds in Aqueous Rechargeable Zinc Batteries</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 30 August 2021.   |
| <b>ZHU Xiaohong</b>                         | #ZHU Xiaohong, <i>Molecular Dynamics Simulation Studies of Lipid Flip-Flop in Different Membrane Environments</i> , PhD Thesis, Department of Materials Science and Engineering, City University of Hong Kong, Hong Kong, PRC, 27 July 2021.   |
| <b>DEPARTMENT OF MECHANICAL ENGINEERING</b> |  |
| <b>Journal publications</b>                 |  |
| <b>AHMAD Muhammad</b>                       | <p>ABBAS Nadir, SHAHEEN Irum, #HUSSAIN Iftikhar, LAMIEL Charmaine, #AHMAD Muhammad, MA Xiaoxia, QURESHI Anjum, NIAZI Javed H., IMRAN Muhammad, ANSARI Mohd Zahid, ZHANG Kaili, "Glycerol-mediated synthesis of copper-doped zinc sulfide with ultrathin nanoflakes for flexible energy electrode materials", <i>Journal of Alloys and Compounds</i>, 919, 01 June 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165701">https://doi.org/10.1016/j.jallcom.2022.165701</a>.</p> <p>#HUSSAIN Iftikhar, IQBAL Sarmad, HUSSAIN Tanveer, CHEUNG Wai Lok, KHAN Skakeel Ahmad, #ZHOU Jun, #AHMAD Muhammad, #KHAN Shahid Ali, LAMIEL Charmaine, IMRAN Muhammad, ALFANTAZI Akram, ZHANG Kaili, "Zn-Co-MOF on solution-free CuO nanowires for flexible hybrid energy storage devices", <i>Materials Today Physics</i>, 23, 05 March 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100655">https://doi.org/10.1016/j.mtphys.2022.100655</a>.</p> <p>#HUSSAIN Iftikhar, LAMIEL Charmaine, #AHMAD Muhammad, #CHEN Yatu, #SHUANG Shuo, JAVED Muhammad Sufyan, YANG Yong, ZHANG Kaili, "High entropy alloys as electrode material for supercapacitors: A review", <i>Journal of Energy Storage</i>, 44(Part A), 16 October 2021, doi: <a href="https://doi.org/10.1016/j.est.2021.103405">https://doi.org/10.1016/j.est.2021.103405</a>.</p> <p>#HUSSAIN Iftikhar, #AHMAD Muhammad, #CHEN Xi, ABBAS Nadir, AL ARNI Saleh, SALIH Alsamani A.M., BENAISSA Mhamed, ASHRAF Muhammad, AYAZ Muhammad, IMRAN Muhammad, ANSARI Mohd Zahid, ZHANG Kaili, "Glycol-assisted Cu-doped ZnS polyhedron-like structure as binder-free novel electrode materials", <i>Journal of Saudi Chemical Society</i>, 26(4), 15 June 2022, doi: <a href="https://doi.org/10.1016/j.jscs.2022.101510">https://doi.org/10.1016/j.jscs.2022.101510</a>.</p> <p>#AHMAD Muhammad, NAWAZ Tehseen, ASSIRI Mohammed A., HUSSAIN Riaz, #HUSSAIN Iftikhar, IMRAN Muhammad, ALI Shafqat, WU Zhanpeng, "Fabrication of Bimetallic Cu-Ag Nanoparticle-Decorated Poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol) and Its Enhanced Catalytic Activity for the Reduction of 4-Nitrophenol", <i>ACS Omega</i>, 7(8), 15 February 2022, pp 7096–7102, doi: <a href="https://doi.org/10.1021/acsomega.1c06786">https://doi.org/10.1021/acsomega.1c06786</a>.</p> <p>#HUSSAIN Iftikhar, SAHOO Sumanta, LAMIEL Charmaine, NGUYEN Thi Toan, #AHMAD Muhammad, #CHEN Xi, IQBAL Sarmad, ALI Awais, ABBAS Nadir, JAVED Muhammad Sufyan, ZHANG Kaili, "Research progress and future aspects: Metal selenides as effective electrodes", <i>Energy Storage Materials</i>, 47, 30 January 2022, pp 13-43, doi: <a href="https://doi.org/10.1016/j.ensm.2022.01.055">https://doi.org/10.1016/j.ensm.2022.01.055</a>.</p> <p>#AHMAD Muhammad, #HUSSAIN Iftikhar, NAWAZ Tehseen, #LI Yuxiang, #CHEN Xi, ALI Shafqat, IMRAN Muhammad, MA Xiaoxia, ZHANG Kaili, "Comparative study of ternary metal chalcogenides (MX; M= Zn-Co-Ni; X= S, Se, Te): Formation process, charge storage mechanism and hybrid supercapacitor", <i>Journal of Power Sources</i>, 534, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.jpowsour.2022.231414">https://doi.org/10.1016/j.jpowsour.2022.231414</a>.</p> <p>#HUSSAIN Iftikhar, SAHOO Sumanta, MOHAPATRA Debananda, #AHMAD Muhammad, IQBAL Sarmad, JAVED Muhammad Sufyan, #GU Shuai, #QIN Ning, LAMIEL Charmaine, ZHANG Kaili, "Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices", <i>Applied Materials Today</i>, 26, 08 December 2021, doi: <a href="https://doi.org/10.1016/j.apmt.2021.101297">https://doi.org/10.1016/j.apmt.2021.101297</a>.</p> |

Section A: Publications of PhD Students

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|                      | <p>#<a href="#">HUSSAIN Iftikhar</a>, <a href="#">HUSSAIN Tanveer</a>, #<a href="#">AHMED Syed Bilal</a>, <a href="#">KAEWMARAYA Thanayut</a>, #<a href="#">AHMAD Muhammad</a>, #<a href="#">CHEN Xi</a>, <a href="#">JAVED Muhammad Sufyan</a>, <a href="#">LAMIEL Charmaine</a>, <a href="#">ZHANG Kaili</a>, "Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation", <i>Journal of Power Sources</i>, 513, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230556">https://doi.org/10.1016/j.jpowsour.2021.230556</a>.</p>                                   |
|                      | <p>#<a href="#">HUSSAIN Iftikhar</a>, <a href="#">HUSSAIN Tanveer</a>, #<a href="#">AHMAD Muhammad</a>, <a href="#">MA Xiaoxia</a>, <a href="#">JAVED Muhammad Sufyan</a>, <a href="#">LAMIEL Charmaine</a>, #<a href="#">CHEN Yatu</a>, <a href="#">AHUJA Rajeev</a>, <a href="#">ZHANG Kaili</a>, "Modified KBBF-like Material for Energy Storage Applications: ZnNiBO<sub>3</sub>(OH) with Enhanced Cycle Life", <i>ACS Applied Materials and Interfaces</i>, 14(6), 01 February 2022, pp 8025–8035, doi: <a href="https://doi.org/10.1021/acsami.1c23583">https://doi.org/10.1021/acsami.1c23583</a>.</p>                                |
|                      | <p>#<a href="#">HUSSAIN Iftikhar</a>, <a href="#">MOHAPATRA Debananda</a>, <a href="#">LAMIEL Charmaine</a>, #<a href="#">AHMAD Muhammad</a>, <a href="#">ASHRAF Muhammad Awais</a>, #<a href="#">CHEN Yatu</a>, #<a href="#">GU Shuai</a>, <a href="#">JAVED Muhammad Sufyan</a>, <a href="#">ZHANG Kaili</a>, "Phosphorus containing layered quadruple hydroxide electrode materials on lab waste recycled flexible current collector", <i>Journal of Colloid and Interface Science</i>, 609, 16 November 2021, pp 566-574, doi: <a href="https://doi.org/10.1016/j.jcis.2021.11.063">https://doi.org/10.1016/j.jcis.2021.11.063</a>.</p>  |
|                      | <p>#<a href="#">HUSSAIN Iftikhar</a>, <a href="#">IQBAL Sarmad</a>, <a href="#">HUSSAIN Tanveer</a>, #<a href="#">CHEN Yatu</a>, #<a href="#">AHMAD Muhammad</a>, <a href="#">JAVED Muhammad Sufyan</a>, <a href="#">ALFANTAZI Akram</a>, <a href="#">ZHANG Kaili</a>, "An oriented Ni–Co-MOF anchored on solution-free 1D CuO: a p–n heterojunction for supercapacitive energy storage", <i>Journal of Materials Chemistry A</i>, 9(33), 23 July 2021, pp 17790-17800, doi: <a href="https://doi.org/10.1039/d1ta04855d">https://doi.org/10.1039/d1ta04855d</a>.</p>  |
|                      | <p>#<a href="#">HUSSAIN Iftikhar</a>, <a href="#">SAHOO Sumanta</a>, <a href="#">SAYED Mostafa Saad</a>, #<a href="#">AHMAD Muhammad</a>, <a href="#">SUFYAN JAVED Muhammad</a>, <a href="#">LAMIEL Charmaine</a>, #<a href="#">LI Yuxiang</a>, <a href="#">SHIM Jae Jin</a>, <a href="#">MA Xiaoxia</a>, <a href="#">ZHANG Kaili</a>, "Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance", <i>Coordination Chemistry Reviews</i>, 458, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.ccr.2022.214429">https://doi.org/10.1016/j.ccr.2022.214429</a>.</p> |
|                      | <p><a href="#">ALI Shafqat</a>, <a href="#">ZUHRA Zareen</a>, <a href="#">ABBAS Yasir</a>, <a href="#">SHU Yufei</a>, #<a href="#">AHMAD Muhammad</a>, <a href="#">WANG Zhongying</a>, "Tailoring Defect Density in UiO-66 Frameworks for Enhanced Pb(II) Adsorption", <i>Langmuir</i>, 37(46), 12 November 2021, pp 13602–13609, doi: <a href="https://doi.org/10.1021/acs.langmuir.1c02032">https://doi.org/10.1021/acs.langmuir.1c02032</a>.</p>  |
| <b>BO Xiangkun</b>   | <p><a href="#">WANG Lingyun</a>, <a href="#">WANG Yu</a>, #<a href="#">BO Xiangkun</a>, <a href="#">WANG Haoyu</a>, <a href="#">YANG Su</a>, <a href="#">TAO Xiaoming</a>, <a href="#">ZI Yunlong</a>, <a href="#">YU William W.</a>, <a href="#">LI Wen Jung</a>, <a href="#">DAOUD Walid</a>, "High-Performance Biomechanical Energy Harvester Enabled by Switching Interfacial Adhesion via Hydrogen Bonding and Phase Separation", <i>Advanced Functional Materials</i>, 32(38), 15 June 2022, doi: <a href="https://doi.org/10.1002/adfm.202204304">https://doi.org/10.1002/adfm.202204304</a>.</p>                                     |
| <b>CAI Junjie</b>    | <p>#<a href="#">CAI Junjie</a>, #<a href="#">CHEN Jingtian</a>, #<a href="#">DENG Wei</a>, #<a href="#">XIA Fan</a>, <a href="#">ZHAO Jiyun</a>, "Towards efficient and sustaining condensation via hierarchical meshed surfaces: A 3D LBM study", <i>International Communications in Heat and Mass Transfer</i>, 132, 10 February 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105919">https://doi.org/10.1016/j.icheatmasstransfer.2022.105919</a>.</p>   |
|                      | <p>#<a href="#">CHEN Jingtian</a>, <a href="#">AHMAD Shakeel</a>, #<a href="#">DENG Wei</a>, #<a href="#">CAI Junjie</a>, <a href="#">ZHAO Jiyun</a>, "Micro/nanoscale surface on enhancing the microchannel flow boiling performance: A Lattice Boltzmann simulation", <i>Applied Thermal Engineering</i>, 205, 08 January 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118036">https://doi.org/10.1016/j.applthermaleng.2022.118036</a>.</p>  |
|                      | <p>#<a href="#">CAI Junjie</a>, #<a href="#">CHEN Jingtian</a>, <a href="#">CHENG Haimei</a>, <a href="#">ZI Shuangfei</a>, <a href="#">XIAO Jinchao</a>, #<a href="#">XIA Fan</a>, <a href="#">ZHAO Jiyun</a>, "The effects of thermal stratification on airborne transport within the urban roughness sublayer", <i>International Journal of Heat and Mass Transfer</i>, 184, 28 November 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.122289">https://doi.org/10.1016/j.ijheatmasstransfer.2021.122289</a>.</p>  |
| <b>CHEN Jingtian</b> | <p>#<a href="#">CAI Junjie</a>, #<a href="#">CHEN Jingtian</a>, #<a href="#">DENG Wei</a>, #<a href="#">XIA Fan</a>, <a href="#">ZHAO Jiyun</a>, "Towards efficient and sustaining condensation via hierarchical meshed surfaces: A 3D LBM study", <i>International Communications in Heat and Mass Transfer</i>, 132, 10 February 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105919">https://doi.org/10.1016/j.icheatmasstransfer.2022.105919</a>.</p>   |
|                      | <p>#<a href="#">CHEN Jingtian</a>, <a href="#">AHMAD Shakeel</a>, #<a href="#">DENG Wei</a>, #<a href="#">CAI Junjie</a>, <a href="#">ZHAO Jiyun</a>, "Micro/nanoscale surface on enhancing the microchannel flow boiling performance: A Lattice Boltzmann simulation", <i>Applied Thermal Engineering</i>, 205, 08 January 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118036">https://doi.org/10.1016/j.applthermaleng.2022.118036</a>.</p>  |
|                      | <p>#<a href="#">DENG Wei</a>, <a href="#">AHMAD Shakeel</a>, <a href="#">LIU Huaqiang</a>, #<a href="#">CHEN Jingtian</a>, <a href="#">ZHAO Jiyun</a>, "Improving boiling heat transfer with hydrophilic/hydrophobic patterned flat surface: A molecular</p>   |

Section A: Publications of PhD Students

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|                  | <p>dynamics study", <i>International Journal of Heat and Mass Transfer</i>, 182, 20 September 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.121974">https://doi.org/10.1016/j.ijheatmasstransfer.2021.121974</a>.</p> <p>#<a href="#">CAI Junjie</a>, #<a href="#">CHEN Jingtian</a>, CHENG Haimei, ZI Shuangfei, XIAO Jinchao, #<a href="#">XIA Fan</a>, <a href="#">ZHAO Jiyun</a>, "The effects of thermal stratification on airborne transport within the urban roughness sublayer", <i>International Journal of Heat and Mass Transfer</i>, 184, 28 November 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.122289">https://doi.org/10.1016/j.ijheatmasstransfer.2021.122289</a>.</p>   |
| <b>CHEN Xi</b>   | <p>#<a href="#">HUSSAIN Iftikhar</a>, #<a href="#">AHMAD Muhammad</a>, #<a href="#">CHEN Xi</a>, ABBAS Nadir, AL ARNI Saleh, SALIH Alsamani A.M., BENAISSA Mhamed, ASHRAF Muhammad, AYAZ Muhammad, IMRAN Muhammad, ANSARI Mohd Zahid, <a href="#">ZHANG Kaili</a>, "Glycol-assisted Cu-doped ZnS polyhedron-like structure as binder-free novel electrode materials", <i>Journal of Saudi Chemical Society</i>, 26(4), 15 June 2022, doi: <a href="https://doi.org/10.1016/j.jscs.2022.101510">https://doi.org/10.1016/j.jscs.2022.101510</a>.</p> <p>#<a href="#">HUSSAIN Iftikhar</a>, SAHOO Sumanta, LAMIEL Charmaine, NGUYEN Thi Toan, #<a href="#">AHMAD Muhammad</a>, #<a href="#">CHEN Xi</a>, IQBAL Sarmad, ALI Awais, ABBAS Nadir, JAVED Muhammad Sufyan, <a href="#">ZHANG Kaili</a>, "Research progress and future aspects: Metal selenides as effective electrodes", <i>Energy Storage Materials</i>, 47, 30 January 2022, pp 13-43, doi: <a href="https://doi.org/10.1016/j.ensm.2022.01.055">https://doi.org/10.1016/j.ensm.2022.01.055</a>.</p> <p>#<a href="#">AHMAD Muhammad</a>, #<a href="#">HUSSAIN Iftikhar</a>, NAWAZ Tehseen, #<a href="#">LI Yuxiang</a>, #<a href="#">CHEN Xi</a>, ALI Shafqat, IMRAN Muhammad, <a href="#">MA Xiaoxia</a>, <a href="#">ZHANG Kaili</a>, "Comparative study of ternary metal chalcogenides (MX; M= Zn–Co–Ni; X= S, Se, Te): Formation process, charge storage mechanism and hybrid supercapacitor", <i>Journal of Power Sources</i>, 534, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.jpowsour.2022.231414">https://doi.org/10.1016/j.jpowsour.2022.231414</a>.</p> <p>#<a href="#">HUSSAIN Iftikhar</a>, HUSSAIN Tanveer, #<a href="#">AHMED Syed Bilal</a>, KAEWMARAYA Thanayut, #<a href="#">AHMAD Muhammad</a>, #<a href="#">CHEN Xi</a>, JAVED Muhammad Sufyan, LAMIEL Charmaine, <a href="#">ZHANG Kaili</a>, "Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation", <i>Journal of Power Sources</i>, 513, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230556">https://doi.org/10.1016/j.jpowsour.2021.230556</a>.</p> <p><a href="#">MA Xiaoxia</a>, #<a href="#">CHEN Xi</a>, #<a href="#">LI Yuxiang</a>, QIAO Zhiqiang, YANG Guangcheng, <a href="#">ZHANG Kaili</a>, "Aluminized energetic coordination polymers constructed from transition metal centers (Co, Ni, and Cu)", <i>Propellants, Explosives, Pyrotechnics</i>, 46(10), 06 July 2021, pp 1598-1610, doi: <a href="https://doi.org/10.1002/prop.202100097">https://doi.org/10.1002/prop.202100097</a>, <a href="https://doi.org/10.1002/prop.202100097">https://doi.org/10.1002/prop.202100097</a>.</p> <p>#<a href="#">CHEN Yatu</a>, #<a href="#">GU Shuai</a>, #<a href="#">ZHOU Jun</a>, #<a href="#">CHEN Xi</a>, SUN Zhipeng, LU Zhouguang, <a href="#">ZHANG Kaili</a>, "A novel Mn<sup>2+</sup>-additive free Zn/MnO<sub>2</sub> battery with 2.4 V voltage window and enhanced stability", <i>Journal of Alloys and Compounds</i>, 909, 31 March 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.164835">https://doi.org/10.1016/j.jallcom.2022.164835</a>.</p> |
| <b>CHEN Yatu</b> | <p>#<a href="#">HUSSAIN Iftikhar</a>, LAMIEL Charmaine, #<a href="#">AHMAD Muhammad</a>, #<a href="#">CHEN Yatu</a>, #<a href="#">SHUANG Shuo</a>, JAVED Muhammad Sufyan, <a href="#">YANG Yong</a>, <a href="#">ZHANG Kaili</a>, "High entropy alloys as electrode material for supercapacitors: A review", <i>Journal of Energy Storage</i>, 44(Part A), 16 October 2021, doi: <a href="https://doi.org/10.1016/j.est.2021.103405">https://doi.org/10.1016/j.est.2021.103405</a>.</p> <p>#<a href="#">HUSSAIN Iftikhar</a>, HUSSAIN Tanveer, #<a href="#">AHMAD Muhammad</a>, <a href="#">MA Xiaoxia</a>, JAVED Muhammad Sufyan, LAMIEL Charmaine, #<a href="#">CHEN Yatu</a>, AHUJA Rajeev, <a href="#">ZHANG Kaili</a>, "Modified KBBF-like Material for Energy Storage Applications: ZnNiBO<sub>3</sub>(OH) with Enhanced Cycle Life", <i>ACS Applied Materials and Interfaces</i>, 14(6), 01 February 2022, pp 8025–8035, doi: <a href="https://doi.org/10.1021/acsami.1c23583">https://doi.org/10.1021/acsami.1c23583</a>.</p> <p>#<a href="#">GU Shuai</a>, #<a href="#">CHEN Yatu</a>, HAO Rui, #<a href="#">ZHOU Jun</a>, #<a href="#">HUSSAIN Iftikhar</a>, #<a href="#">QIN Ning</a>, LI Muqing, CHEN Jingjing, WANG Zhiqiang, ZHENG Wei, GAN Qingmeng, LI Zhiqiang, GUO Hao, LI Yingzhi, <a href="#">ZHANG Kaili</a>, LU Zhouguang, "Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries", <i>Chemical Communications</i>, 57(63), 07 July 2021, pp 7810-7813, doi: <a href="https://doi.org/10.1039/d1cc02426d">https://doi.org/10.1039/d1cc02426d</a>.</p> <p>#<a href="#">CHEN Yatu</a>, #<a href="#">GU Shuai</a>, #<a href="#">ZHOU Jun</a>, #<a href="#">CHEN Xi</a>, SUN Zhipeng, LU Zhouguang, <a href="#">ZHANG Kaili</a>, "A novel Mn<sup>2+</sup>-additive free Zn/MnO<sub>2</sub> battery with 2.4 V voltage window and enhanced stability", <i>Journal of Alloys and Compounds</i>, 909, 31 March 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.164835">https://doi.org/10.1016/j.jallcom.2022.164835</a>.</p> <p>#<a href="#">HUSSAIN Iftikhar</a>, MOHAPATRA Debananda, LAMIEL Charmaine, #<a href="#">AHMAD Muhammad</a>, ASHRAF Muhammad Awais, #<a href="#">CHEN Yatu</a>, #<a href="#">GU Shuai</a>, JAVED Muhammad Sufyan, <a href="#">ZHANG Kaili</a>, "Phosphorus containing layered quadruple hydroxide electrode materials on lab</p>  |



Section A: Publications of PhD Students

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|                      | waste recycled flexible current collector", <i>Journal of Colloid and Interface Science</i> , 609, 16 November 2021, pp 566-574, doi: <a href="https://doi.org/10.1016/j.jcis.2021.11.063">https://doi.org/10.1016/j.jcis.2021.11.063</a> .   |
|                      | # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">IQBAL Sarmad</a> , <a href="#">HUSSAIN Tanveer</a> , # <a href="#">CHEN Yatu</a> , # <a href="#">AHMAD Muhammad</a> , <a href="#">JAVED Muhammad Sufyan</a> , <a href="#">ALFANTAZI Akram</a> , <a href="#">ZHANG Kaili</a> , "An oriented Ni-Co-MOF anchored on solution-free 1D CuO: a p-n heterojunction for supercapacitive energy storage", <i>Journal of Materials Chemistry A</i> , 9(33), 23 July 2021, pp 17790-17800, doi: <a href="https://doi.org/10.1039/d1ta04855d">https://doi.org/10.1039/d1ta04855d</a> .   |
| <b>CHENG Lizi</b>    | <a href="#">LYU Fucong</a> , <a href="#">JIA Zhe</a> , <a href="#">ZENG Shanshan</a> , <a href="#">MA Feixiang</a> , <a href="#">PAN Lulu</a> , # <a href="#">CHENG Lizi</a> , <a href="#">BAO Yan</a> , <a href="#">SUN Ligang</a> , <a href="#">OU Weihui</a> , # <a href="#">DU Peng</a> , <a href="#">LI Yangyang</a> , <a href="#">LU Jian</a> , "Tunable ultrathin dual-phase P-doped Bi <sub>2</sub> MoO <sub>6</sub> nanosheets for advanced lithium and sodium storage", <i>Nano Research</i> , 15(7), 29 March 2022, pp 6128–6137, doi: <a href="https://doi.org/10.1007/s12274-022-4198-5">https://doi.org/10.1007/s12274-022-4198-5</a> .<br># <a href="#">ZHANG Jiayong</a> , <a href="#">ZHANG Hongwu</a> , <a href="#">LI Qian</a> , # <a href="#">CHENG Lizi</a> , <a href="#">YE Hongfei</a> , <a href="#">ZHENG Yonggang</a> , <a href="#">LU Jian</a> , "The physical origin of observed repulsive forces between general dislocations and twin boundaries in FCC metals: An atom-continuum coupling study", <i>Journal of Materials Science and Technology</i> , 109, 28 October 2021, pp 221-227, doi: <a href="https://doi.org/10.1016/j.jmst.2021.08.058">https://doi.org/10.1016/j.jmst.2021.08.058</a> .   |
| <b>DAI Yuhang</b>    | <a href="#">ZHANG Chao</a> , <a href="#">ZHENG Huanxi</a> , <a href="#">SUN Jing</a> , # <a href="#">ZHOU Yongsen</a> , <a href="#">XU Wanghui</a> , # <a href="#">DAI Yuhang</a> , # <a href="#">MO Jiaying</a> , <a href="#">WANG Zuankai</a> , "3D Printed, Solid-State Conductive Ionoelastomer as a Generic Building Block for Tactile Applications", <i>Advanced Materials</i> , 34(2), 03 November 2021, doi: <a href="https://doi.org/10.1002/adma.202105996">https://doi.org/10.1002/adma.202105996</a> .<br># <a href="#">MO Jiaying</a> , # <a href="#">DAI Yuhang</a> , <a href="#">ZHANG Chao</a> , # <a href="#">ZHOU Yongsen</a> , <a href="#">LI Wanbo</a> , # <a href="#">SONG Yuxin</a> , # <a href="#">WU Chenyang</a> , <a href="#">WANG Zuankai</a> , "Design of ultra-stretchable, highly adhesive and self-healable hydrogels via tannic acid-enabled dynamic interactions", <i>Materials Horizons</i> , 8(12), 07 October 2021, pp 3409–3416, doi: <a href="https://doi.org/10.1039/d1mh01324f">https://doi.org/10.1039/d1mh01324f</a> .  |
| <b>DENG Wei</b>      | # <a href="#">CAI Junjie</a> , # <a href="#">CHEN Jingtian</a> , # <a href="#">DENG Wei</a> , # <a href="#">XIA Fan</a> , <a href="#">ZHAO Jiyun</a> , "Towards efficient and sustaining condensation via hierarchical meshed surfaces: A 3D LBM study", <i>International Communications in Heat and Mass Transfer</i> , 132, 10 February 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105919">https://doi.org/10.1016/j.icheatmasstransfer.2022.105919</a> .<br># <a href="#">CHEN Jingtian</a> , # <a href="#">AHMAD Shakeel</a> , # <a href="#">DENG Wei</a> , # <a href="#">CAI Junjie</a> , <a href="#">ZHAO Jiyun</a> , "Micro/nanoscale surface on enhancing the microchannel flow boiling performance: A Lattice Boltzmann simulation", <i>Applied Thermal Engineering</i> , 205, 08 January 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118036">https://doi.org/10.1016/j.applthermaleng.2022.118036</a> .<br># <a href="#">DENG Wei</a> , # <a href="#">MA Shihua</a> , <a href="#">LI Weimin</a> , <a href="#">LIU Huaqiang</a> , <a href="#">ZHAO Jiyun</a> , "A molecular dynamics investigation of boiling heat transfer over wettability thermo-responsive surface", <i>International Journal of Heat and Mass Transfer</i> , 191, 06 April 2022, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2022.122856">https://doi.org/10.1016/j.ijheatmasstransfer.2022.122856</a> .<br><a href="#">LIU Huaqiang</a> , # <a href="#">DENG Wei</a> , <a href="#">DING Peng</a> , <a href="#">ZHAO Jiyun</a> , "Investigation of the effects of surface wettability and surface roughness on nanoscale boiling process using molecular dynamics simulation", <i>Nuclear Engineering and Design</i> , 382, 09 August 2021, doi: <a href="https://doi.org/10.1016/j.nucengdes.2021.111400">https://doi.org/10.1016/j.nucengdes.2021.111400</a> .<br># <a href="#">DENG Wei</a> , # <a href="#">AHMAD Shakeel</a> , <a href="#">LIU Huaqiang</a> , # <a href="#">CHEN Jingtian</a> , <a href="#">ZHAO Jiyun</a> , "Improving boiling heat transfer with hydrophilic/hydrophobic patterned flat surface: A molecular dynamics study", <i>International Journal of Heat and Mass Transfer</i> , 182, 20 September 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.121974">https://doi.org/10.1016/j.ijheatmasstransfer.2021.121974</a> . |
| <b>DENG Wei</b>      | # <a href="#">DENG Wei</a> , # <a href="#">SUN Yajun</a> , # <a href="#">YAO Xiaoxue</a> , <a href="#">SUBRAMANIAN SENTHILKANNAN Karpagam</a> , # <a href="#">LING Chen</a> , # <a href="#">WANG Hongbo</a> , <a href="#">CHOPRA Shauhrat Singh</a> , <a href="#">XU Ben Bin</a> , <a href="#">WANG Jie-Xin</a> , <a href="#">CHEN Jian-Feng</a> , <a href="#">WANG Dan</a> , <a href="#">AMANCIO Honeyfer</a> , <a href="#">PRAMANA Stevin</a> , <a href="#">YE Ruquan</a> , <a href="#">WANG Steven</a> , "Masks for COVID-19", <i>Advanced Science</i> , 9(3), 26 November 2021, doi: <a href="https://doi.org/10.1002/adv.202102189">https://doi.org/10.1002/adv.202102189</a> .  |
| <b>DENG Yongjian</b> | # <a href="#">XIE Bochen</a> , # <a href="#">DENG Yongjian</a> , <a href="#">SHAO Zhanpeng</a> , <a href="#">LIU Hai</a> , <a href="#">LI You Fu</a> , "VMV-GCN: Volumetric Multi-View Based Graph CNN for Event Stream Classification", <i>IEEE Robotics and Automation Letters</i> , 7(2), 06 January 2022, pp 1976-1983, doi: <a href="https://doi.org/10.1109/LRA.2022.3140819">https://doi.org/10.1109/LRA.2022.3140819</a> .  |
| <b>DONG Kejian</b>   | # <a href="#">DONG Kejian</a> , <a href="#">DING Shuhua</a> , <a href="#">CHEN Deqi</a> , <a href="#">WU Dan</a> , <a href="#">DENG Jian</a> , <a href="#">LIU Haidong</a> , <a href="#">LIU Hanzhou</a> , <a href="#">MA Zaiyong</a> , "An experimental study of quenching propagation along narrow  |

Section A: Publications of PhD Students

|                    |   |
|--------------------|---|
|                    | <p>rectangular channels", <i>International Communications in Heat and Mass Transfer</i>, 133, 12 March 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105969">https://doi.org/10.1016/j.icheatmasstransfer.2022.105969</a>.</p> <p>#<a href="#">DONG Kejian</a>, <a href="#">AHMAD Shakeel</a>, #<a href="#">KHAN Shahid Ali</a>, <a href="#">DING Peng</a>, <a href="#">LI Wenhui</a>, <a href="#">ZHAO Jiyun</a>, "Thermal-hydraulic analysis of wire-wrapped rod bundle in lead-based fast reactor with non-uniform heat flux", <i>International Journal of Energy Research</i>, 28 June 2022, doi: <a href="https://doi.org/10.1002/er.8316">https://doi.org/10.1002/er.8316</a>.</p> <p><a href="#">LIU Haidong</a>, <a href="#">CHEN Deqi</a>, #<a href="#">DONG Kejian</a>, <a href="#">DENG Jian</a>, <a href="#">QIN Jiang</a>, <a href="#">YAN Peigang</a>, <a href="#">DING Shuhua</a>, "A general prediction model of minimum film boiling temperature during quenching propagation in narrow rectangular channel", <i>Applied Thermal Engineering</i>, 212, 13 May 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118640">https://doi.org/10.1016/j.applthermaleng.2022.118640</a>.</p>  |
| <b>DU Meng</b>     | <p><a href="#">HE Quanfeng</a>, <a href="#">TANG P. H.</a>, <a href="#">CHEN H. A.</a>, <a href="#">LAN Si</a>, <a href="#">WANG Jianguo</a>, <a href="#">LUAN Junhua</a>, #<a href="#">DU Meng</a>, <a href="#">LIU Y.</a>, <a href="#">LIU Chain Tsuan</a>, <a href="#">PAO C. W.</a>, <a href="#">YANG Yong</a>, "Understanding chemical short-range ordering/demixing coupled with lattice distortion in solid solution high entropy alloys", <i>Acta Materialia</i>, 216, 02 July 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117140">https://doi.org/10.1016/j.actamat.2021.117140</a>.</p>  |
| <b>FENG Yu</b>     | <p>#<a href="#">YANG Liu</a>, #<a href="#">ZHANG Tieshan</a>, #<a href="#">TAN Rong</a>, #<a href="#">YANG Xiong</a>, #<a href="#">GUO Dong</a>, #<a href="#">FENG Yu</a>, #<a href="#">REN Hao</a>, #<a href="#">TANG Yifeng</a>, <a href="#">SHANG Wanfeng</a>, <a href="#">SHEN Yajing</a>, "Functionalized Spiral-Rolling Millirobot for Upstream Swimming in Blood Vessel", <i>Advanced Science</i>, 9(16), 31 March 2022, doi: <a href="https://doi.org/10.1002/adv.202200342">https://doi.org/10.1002/adv.202200342</a>.</p> <p>#<a href="#">TAN Rong</a>, #<a href="#">YANG Xiong</a>, <a href="#">LU Haojian</a>, #<a href="#">YANG Liu</a>, #<a href="#">ZHANG Tieshan</a>, #<a href="#">MIAO Jiaqi</a>, #<a href="#">FENG Yu</a>, <a href="#">SHEN Yajing</a>, "Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions", <i>Matter</i>, 5(4), 25 February 2022, pp 1277-1295, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.023">https://doi.org/10.1016/j.matt.2022.01.023</a>.</p>  |
| <b>GAO Shouwei</b> | <p><a href="#">SUN Zhuangzhi</a>, <a href="#">HAN Chuanlong</a>, #<a href="#">GAO Shouwei</a>, <a href="#">LI Zhaoxin</a>, <a href="#">JING Mingxing</a>, <a href="#">YU Haipeng</a>, <a href="#">WANG Zuankai</a>, "Achieving efficient power generation by designing bioinspired and multi-layered interfacial evaporator", <i>Nature Communications</i>, 13, 2022, doi: <a href="https://doi.org/10.1038/s41467-022-32820-0">https://doi.org/10.1038/s41467-022-32820-0</a>.</p> <p>#<a href="#">LI Yuchao</a>, #<a href="#">WANG Mingmei</a>, <a href="#">ZHANG Chao</a>, <a href="#">WANG Chun-Chuan</a>, <a href="#">XU Wanghuai</a>, #<a href="#">GAO Shouwei</a>, #<a href="#">ZHOU Yongsen</a>, <a href="#">WANG Chun-Ta</a>, <a href="#">WANG Zuankai</a>, "A Fully Self-Powered Cholesteric Smart Window Actuated by Droplet-Based Electricity Generator", <i>Advanced Optical Materials</i>, 10(7), 11 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102274">https://doi.org/10.1002/adom.202102274</a>.</p> <p><a href="#">WANG Yang</a>, #<a href="#">GAO Shouwei</a>, <a href="#">ZHONG Hongmei</a>, <a href="#">ZHANG Baoping</a>, <a href="#">CUI Miaomiao</a>, <a href="#">JIANG Mengnan</a>, <a href="#">WANG Steven</a>, <a href="#">WANG Zuankai</a>, "Heterogeneous wettability and radiative cooling for efficient deliquescent sorbents-based atmospheric water harvesting", <i>Cell Reports Physical Science</i>, 3(5), 29 April 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2022.100879">https://doi.org/10.1016/j.xcrp.2022.100879</a>.</p> <p>#<a href="#">WANG Lili</a>, #<a href="#">SONG Yuxin</a>, <a href="#">XU Wanghuai</a>, <a href="#">LI Wanbo</a>, <a href="#">JIN Yuankai</a>, #<a href="#">GAO Shouwei</a>, #<a href="#">YANG Siyan</a>, #<a href="#">WU Chenyang</a>, <a href="#">WANG Steven</a>, <a href="#">WANG Zuankai</a>, "Harvesting energy from high-frequency impinging water droplets by a droplet-based electricity generator", <i>EcoMat</i>, 3(4), August 2021, doi: <a href="https://doi.org/10.1002/eom2.12116">https://doi.org/10.1002/eom2.12116</a>.</p> <p>#<a href="#">ZHOU Yongsen</a>, <a href="#">ZHANG Chao</a>, #<a href="#">GAO Shouwei</a>, <a href="#">LI Wanbo</a>, <a href="#">KAI Ji-jung</a>, <a href="#">WANG Zuankai</a>, "Pressure-Sensitive Adhesive with Enhanced and Phototunable Underwater Adhesion", <i>ACS Applied Materials and Interfaces</i>, 13(42), 15 October 2021, pp 50451-50460, doi: <a href="https://doi.org/10.1021/acsmi.1c16146">https://doi.org/10.1021/acsmi.1c16146</a>.</p> <p>#<a href="#">ZHOU Yongsen</a>, <a href="#">ZHANG Chao</a>, #<a href="#">GAO Shouwei</a>, <a href="#">ZHANG Baoping</a>, <a href="#">SUN Jing</a>, <a href="#">KAI Ji-jung</a>, <a href="#">WANG Bing</a>, <a href="#">WANG Zuankai</a>, "Instant and Strong Underwater Adhesion by Coupling Hygroscopicity and in Situ Photocuring", <i>Chemistry of Materials</i>, 33(22), 15 November 2021, pp 8822-8830, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c03007">https://doi.org/10.1021/acs.chemmater.1c03007</a>.</p> |
| <b>GAO Xiang</b>   | <p>#<a href="#">GAO Xiang</a>, #<a href="#">WANG Hang</a>, #<a href="#">ZHAO Weijiang</a>, <a href="#">YANG Yong</a>, "Fabrication of strong yet malleable bulk porous high entropy laves intermetallics via chemical immersion dealloying of eutectic high entropy alloys", <i>Scripta Materialia</i>, 219, 11 June 2022, doi: <a href="https://doi.org/10.1016/j.scriptamat.2022.114859">https://doi.org/10.1016/j.scriptamat.2022.114859</a>.</p> <p>#<a href="#">SHUANG Shuo</a>, <a href="#">YU Qing</a>, #<a href="#">GAO Xiang</a>, <a href="#">HE Quanfeng</a>, #<a href="#">ZHANG Jingyang</a>, <a href="#">SHI S. Q.</a>, <a href="#">YANG Yong</a>, "Tuning the microstructure for superb corrosion resistance in eutectic high</p>  |

## Section A: Publications of PhD Students

|          |  |
|----------|--|
|          | entropy alloy", <i>Journal of Materials Science and Technology</i> , 109, 07 November 2021, pp 197-208, doi: <a href="https://doi.org/10.1016/j.jmst.2021.08.069">https://doi.org/10.1016/j.jmst.2021.08.069</a> .   |
| GU Shuai | #QIN Ning, YU Sicen, JI Zongwei, WANG Yanfang, #GU Shuai, GAN Qingmeng, WANG Zhenyu, LI Zhiqiang, LUO Guangfu, ZHANG Kaili, LU Zhouguang, "Oxidation State as a Descriptor in Oxygen Reduction Electrocatalysis", <i>CCS Chemistry</i> , 10 February 2022, doi: <a href="https://doi.org/10.31635/ccschem.022.202101531">https://doi.org/10.31635/ccschem.022.202101531</a> .  |
|          | #HUSSAIN Iftikhar, SAHOO Sumanta, MOHAPATRA Debananda, #AHMAD Muhammad, IQBAL Sarmad, JAVED Muhammad Sufyan, #GU Shuai, #QIN Ning, LAMIEL Charmaine, ZHANG Kaili, "Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices", <i>Applied Materials Today</i> , 26, 08 December 2021, doi: <a href="https://doi.org/10.1016/j.apmt.2021.101297">https://doi.org/10.1016/j.apmt.2021.101297</a> .                                   |
|          | CHEN Jing-Jing, #GU Shuai, HAO Rui, WANG Zhen-Yu, LI Mu-Qing, LI Zhi-Qiang, LIU Kun, LIAO Ke-Meng, WANG Zhi-Qiang, HUANG He, LI Ying-Zhi, ZHANG Kaili, LU Zhouguang, "Co single atoms and nanoparticles dispersed on N-doped carbon nanotube as high-performance catalysts for Zn-air batteries", <i>Rare Metals</i> , 41(6), 02 April 2022, pp 2055–2062, doi: <a href="https://doi.org/10.1007/s12598-022-01974-7">https://doi.org/10.1007/s12598-022-01974-7</a> .  |
|          | MA Xiaoxia, #GU Shuai, #LI Yuxiang, LU Jian, YANG Guangcheng, ZHANG Kaili, "Additive-Free Energetic Film Based on Graphene Oxide and Nanoscale Energetic Coordination Polymer for Transient Microchip", <i>Advanced Functional Materials</i> , 31(42), 21 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202103199">https://doi.org/10.1002/adfm.202103199</a> .  |
|          | LIU Kun, #GU Shuai, YUAN Huimin, WANG Hao, TAN Wen, JIANG Feng, CHEN Jingjing, LIAO Kemeng, YAN Chunliu, YANG Fan, LU Zhouguang, XU Zhenghe, "Hierarchical mesoporous heteroatom-doped carbon accelerating the adsorption and conversion of polysulfide for high performance Lithium–Sulfur batteries", <i>Composites Communications</i> , 30, 09 February 2022, doi: <a href="https://doi.org/10.1016/j.coco.2022.101079">https://doi.org/10.1016/j.coco.2022.101079</a> .                                      |
|          | GAN Qingmeng, #QIN Ning, #GU Shuai, WANG Zhenyu, LI Zhiqiang, LIAO Kemeng, ZHANG Kaili, LU Li, XU Zhenghe, LU Zhouguang, "Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries", <i>Small Methods</i> , 5(9), 26 July 2021, doi: <a href="https://doi.org/10.1002/smt.202100580">https://doi.org/10.1002/smt.202100580</a> .   |
|          | #GU Shuai, #CHEN Yatu, HAO Rui, #ZHOU Jun, #HUSSAIN Iftikhar, #QIN Ning, LI Muqing, CHEN Jingjing, WANG Zhiqiang, ZHENG Wei, GAN Qingmeng, LI Zhiqiang, GUO Hao, LI Yingzhi, ZHANG Kaili, LU Zhouguang, "Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries", <i>Chemical Communications</i> , 57(63), 07 July 2021, pp 7810-7813, doi: <a href="https://doi.org/10.1039/d1cc02426d">https://doi.org/10.1039/d1cc02426d</a> .  |
|          | WU Shuilin, SU Bizhe, SUN Mingzi, #GU Shuai, LU Zhouguang, ZHANG Kaili, YU Yau Wai Denis, HUANG Bolong, WANG Pengfei, LEE Chun Sing, ZHANG Wenjun, "Dilute Aqueous-Aprotic Hybrid Electrolyte Enabling a Wide Electrochemical Window through Solvation Structure Engineering", <i>Advanced Materials</i> , 33(41), 31 August 2021, doi: <a href="https://doi.org/10.1002/adma.202102390">https://doi.org/10.1002/adma.202102390</a> .  |
|          | #CHEN Yatu, #GU Shuai, #ZHOU Jun, #CHEN Xi, SUN Zhipeng, LU Zhouguang, ZHANG Kaili, "A novel Mn <sup>2+</sup> -additive free Zn/MnO <sub>2</sub> battery with 2.4 V voltage window and enhanced stability", <i>Journal of Alloys and Compounds</i> , 909, 31 March 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.164835">https://doi.org/10.1016/j.jallcom.2022.164835</a> .  |
|          | #HUSSAIN Iftikhar, MOHAPATRA Debananda, LAMIEL Charmaine, #AHMAD Muhammad, ASHRAF Muhammad Awais, #CHEN Yatu, #GU Shuai, JAVED Muhammad Sufyan, ZHANG Kaili, "Phosphorus containing layered quadruple hydroxide electrode materials on lab waste recycled flexible current collector", <i>Journal of Colloid and Interface Science</i> , 609, 16 November 2021, pp 566-574, doi: <a href="https://doi.org/10.1016/j.jcis.2021.11.063">https://doi.org/10.1016/j.jcis.2021.11.063</a> .                           |
|          | #GU Shuai, MA Xiaoxia, CHEN Jingjing, HAO Rui, WANG Zhiqiang, #QIN Ning, ZHENG Wei, GAN Qingmeng, LUO Wen, LI Muqing, LI Zhiqiang, LIAO Kemeng, GUO Hao, LIU Guiyu, ZHANG Kaili, LU Zhouguang, "Regulating the radical intermediates by conjugated units in covalent organic frameworks for optimized lithium ion storage", <i>Journal of Energy Chemistry</i> , 69, 10 January 2022, pp 428-433, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.005">https://doi.org/10.1016/j.jechem.2022.01.005</a> . |

Section A: Publications of PhD Students

|                  |  |
|------------------|--|
|                  | <p>LIAO Kemeng, LI Zhiqiang, #GU Shuai, LI Yingzhi, KONG Long, #QIN Ning, HUANG He, WU Sisi, CHEN Jingjing, GAN Qingmeng, <u>ZHANG Kaili</u>, LU Zhonguang, "Coupling a Three-Dimensional Nanopillar and Robust Film to Guide Li-Ion Flux for Dendrite-Free Lithium Metal Anodes", <i>ACS Applied Materials and Interfaces</i>, 13(38), 14 September 2021, pp 45416-45425, doi: <a href="https://doi.org/10.1021/acsami.1c10913">https://doi.org/10.1021/acsami.1c10913</a>.</p> <p>HAO Rui, #GU Shuai, CHEN Jingjing, WANG Zhenyu, GAN Qingmeng, WANG Zhiqiang, HUANG Yanping, LIU Penggao, <u>ZHANG Kaili</u>, LIU Kaiyu, LIU Chen, LU Zhouguang, "Microporous Fe-N<sub>4</sub> catalysts derived from biomass aerogel for a high-performance Zn-air battery", <i>Materials Today Energy</i>, 21, 31 July 2021, doi: <a href="https://doi.org/10.1016/j.mtener.2021.100826">https://doi.org/10.1016/j.mtener.2021.100826</a>.</p>  |
| <b>HAN Ying</b>  | <p>LI PENG, #HAN Ying, WANG Meihui, CAO Xiaoxue, GAO Junfeng, LIU Yingjun, CHEN Xianjue, WANG Bin, WANG Bo, ZHU Chongyang, WANG Xiao, <u>CAO Ke</u>, HUANG Ming, CUNNING Benjamin, PANG Jintao, XU Wendao, YING Yibin, XU Zhen, FANG Wenzhang, <u>LU Yang</u>, RUOFF Rodney S., GAO Chao, "Multifunctional Macroassembled Graphene Nanofilms with High Crystallinity", <i>Advanced Materials</i>, 08 October 2021, doi: <a href="https://doi.org/10.1002/adma.202104195">https://doi.org/10.1002/adma.202104195</a>.</p> <p>#HAN Ying, <u>GAO Libo</u>, #ZHOU Jingzhuo, <u>HOU Yuan</u>, #JIA Yanwen, <u>CAO Ke</u>, <u>DUAN Ke</u>, <u>LU Yang</u>, "Deep Elastic Strain Engineering of 2D Materials and Their Twisted Bilayers", <i>ACS Applied Materials &amp; Interfaces</i>, 14(7), 11 February 2022, pp 8655–8663, doi: <a href="https://doi.org/10.1021/acsami.1c23431">https://doi.org/10.1021/acsami.1c23431</a>.</p> <p>FENG Shizhe, CAO Ke, GAO Yue, #HAN Ying, LIU Zhanli, <u>LU Yang</u>, XU Zhiping, "Experimentally measuring weak fracture toughness anisotropy in graphene", <i>Communications Materials</i>, 3, 04 May 2022, doi: <a href="https://doi.org/10.1038/s43246-022-00252-4">https://doi.org/10.1038/s43246-022-00252-4</a>.</p>   |
| <b>HE Sihong</b> | <p>#HE Sihong, CAI Jiejing, YU Honghao, LI Xuezhong, LIU Rong, "Effect of thermo-physical properties of accident tolerant fuels on transient fuel behaviors and the safety", <i>Annals of Nuclear Energy</i>, 172, 17 March 2022, doi: <a href="https://doi.org/10.1016/j.anucene.2022.109080">https://doi.org/10.1016/j.anucene.2022.109080</a>.</p>  |
| <b>HE Yunhu</b>  | <p>#HE Yunhu, CHEN Zhou, #KONG Shangcheng, #MAO Zhengyi, #YANG Chen, #WANG Wanying, #WAN Lei, LIU Guo, #YIN Jianan, <u>CHAN Chi Hou</u>, <u>LU Jian</u>, "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i>, 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a>.</p> <p><u>CHEN Zhou</u>, #KONG Shangcheng, #HE Yunhu, <u>YI Shenghui</u>, <u>LIU Guo</u>, #MAO Zhengyi, #HUO Mengke, <u>CHAN Chi Hou</u>, <u>LU Jian</u>, "Soft, Bistable Actuators for Reconfigurable 3D Electronics", <i>ACS Applied Materials &amp; Interfaces</i>, 13(35), 24 August 2021, pp 41968-41977, doi: <a href="https://doi.org/10.1021/acsami.1c08722">https://doi.org/10.1021/acsami.1c08722</a>.</p>   |
| <b>HONG Ying</b> | <p>#WANG Biao, #HONG Ying, #LONG Zhihe, #PAN Qiqi, #LI Pengyu, <u>YAO Xi</u>, <u>YANG Zhengbao</u>, "Characterization of Wrist Motions and Bionic Energy Harvesting for Wrist Wearables", <i>IEEE Internet of Things Journal</i>, 03 June 2022, doi: <a href="https://doi.org/10.1109/JIOT.2022.3178719">https://doi.org/10.1109/JIOT.2022.3178719</a>.</p> <p>#SHAN Yao, #LIU Shiyuan, #WANG Biao, #HONG Ying, ZHANG Chao, <u>LIM C W</u>, ZHANG Guangzu, <u>YANG Zhengbao</u>, "A gravity-driven sintering method to fabricate geometrically complex compact piezoceramics", <i>Nature Communications</i>, 12, 18 October 2021, doi: <a href="https://doi.org/10.1038/s41467-021-26373-x">https://doi.org/10.1038/s41467-021-26373-x</a>.</p> <p>#ZHANG Zhuomin, #LIU Shiyuan, #PAN Qiqi, #HONG Ying, #SHAN Yao, #PENG Zehua, #XU Xiaote, LIU Bingren, <u>CHAI Yu</u>, <u>YANG Zhengbao</u>, "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i>, 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a>.</p> <p>#LIU Shiyuan, #SHAN Yao, #HONG Ying, <u>JIN Yuankai</u>, #LIN Weikang, #ZHANG Zhuomin, #XU Xiaote, <u>WANG Zuankai</u>, <u>YANG Zhengbao</u>, "3D Conformal Fabrication of Piezoceramic Films", <i>Advanced Science</i>, 28 April 2022, doi: <a href="https://doi.org/10.1002/advs.202106030">https://doi.org/10.1002/advs.202106030</a>.</p> <p>#HONG Ying, #WANG Biao, #LONG Zhihe, #ZHANG Zhuomin, #PAN Qiqi, #LIU Shiyuan, <u>LUO Xiaowei</u>, <u>YANG Zhengbao</u>, "Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability", <i>Advanced Functional Materials</i>, 31(42), 24 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104737">https://doi.org/10.1002/adfm.202104737</a>.</p> |

Section A: Publications of PhD Students

|                  |  |
|------------------|--|
|                  | <p>#HONG Ying, JIN Lihan, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, LEE Youngjin, KHOO Bee Luan, YANG Zhengbao, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i>, 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a>.</p> <p>#WANG Biao, #LONG Zhihe, #HONG Ying, #PAN Qiqi, #LIN Weikang, YANG Zhengbao, "Woodpecker-mimic two-layer band energy harvester with a piezoelectric array for powering wrist-worn wearables", <i>Nano Energy</i>, 89(Pt. A), 30 July 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106385">https://doi.org/10.1016/j.nanoen.2021.106385</a>.</p>  |
| HUANG Qingyun    | <p>WU Cong, CHIN Siew Mei, #HUANG Qingyun, CHAN Ho Yin, YU Xinge, VELLAISAMY Arul Lenus Roy, LI Wen Jung, "Rapid nanomolding of nanotopography on flexible substrates to control muscle cell growth with enhanced maturation", <i>Microsystems and Nanoengineering</i>, 7, 05 November 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00316-4">https://doi.org/10.1038/s41378-021-00316-4</a>.</p> <p>#KONG Ka Wai, CHAN Ho Yin, #HUANG Qingyun, LEE Francis Chee Shuen, LEUNG Yeuk-lan Alice, GUAN Binghe, SHEN Jiangang, WONG Vivian Taam Chi Woon, LI Wen Jung, "Sphygmopalpation using Tactile Robotic Fingers Reveals Fundamental Arterial Pulse Patterns", <i>IEEE Access</i>, 10, 18 January 2022, pp 12252-12261, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3144475">https://doi.org/10.1109/ACCESS.2022.3144475</a>.</p>  |
| HUANG Shasha     | <p>#HUANG Shasha, #ZHANG Jun, #XIONG Yaoxu, #MA Shihua, #XU Biao, ZHAO Shijun, "Effects of local chemical ordering on defect evolution in NiFe concentrated solid solution alloy", <i>Journal of Nuclear Materials</i>, 568, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.jnucmat.2022.153877">https://doi.org/10.1016/j.jnucmat.2022.153877</a>.</p> <p>#XU Biao, #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #HUANG Shasha, KAI Ji-jung, ZHAO Shijun, "Revealing the crucial role of rough energy landscape on self-diffusion in high-entropy alloys based on machine learning and kinetic Monte Carlo", <i>Acta Materialia</i>, 234, 21 May 2022, doi: <a href="https://doi.org/10.1016/j.actamat.2022.118051">https://doi.org/10.1016/j.actamat.2022.118051</a>.</p>  |
| HUO Mengke       | <p>CHEN Zhou, #KONG Shangcheng, #HE Yunhu, YI Shenghui, LIU Guo, #MAO Zhengyi, #HUO Mengke, CHAN Chi Hou, LU Jian, "Soft, Bistable Actuators for Reconfigurable 3D Electronics", <i>ACS Applied Materials &amp; Interfaces</i>, 13(35), 24 August 2021, pp 41968-41977, doi: <a href="https://doi.org/10.1021/acsami.1c08722">https://doi.org/10.1021/acsami.1c08722</a>.</p> <p>#HUO Mengke, HE Siyuan, ZHANG Yun, FENG Yuxiao, LU Jian, "Simulation on bone remodeling with stochastic nature of adult and elderly using topology optimization algorithm", <i>Journal of Biomechanics</i>, 136, 04 April 2022, doi: <a href="https://doi.org/10.1016/j.jbiomech.2022.111078">https://doi.org/10.1016/j.jbiomech.2022.111078</a>.</p> <p>#MAO Zhengyi, #HUO Mengke, LYU Fucong, #ZHOU Yongsen, BU Yu, #WAN Lei, PAN Lulu, #PAN Jie, LIU Hui, LU Jian, "Nacre-liked material with tough and post-tunable mechanical properties", <i>Journal of Materials Science and Technology</i>, 114, 15 January 2022, pp 172-179, doi: <a href="https://doi.org/10.1016/j.jmst.2021.11.018">https://doi.org/10.1016/j.jmst.2021.11.018</a>.</p>   |
| HUSSAIN Iftikhar | <p>ABBAS Nadir, SHAHEEN Irum, #HUSSAIN Iftikhar, LAMIEL Charmaine, #AHMAD Muhammad, MA Xiaoxia, QURESHI Anjum, NIAZI Javed H., IMRAN Muhammad, ANSARI Mohd Zahid, ZHANG Kaili, "Glycerol-mediated synthesis of copper-doped zinc sulfide with ultrathin nanoflakes for flexible energy electrode materials", <i>Journal of Alloys and Compounds</i>, 919, 01 June 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165701">https://doi.org/10.1016/j.jallcom.2022.165701</a>.</p> <p>#KHAN Shahid Ali, EZE Chika, #KHAN Shahid Ali, #SHAHID Ali Raza, PATIL Mahesh Suresh, AHMAD Shakeel, #HUSSAIN Iftikhar, ZHAO Jiyun, "Design of a new optimized U-shaped lightweight liquid-cooled battery thermal management system for electric vehicles: A machine learning approach", <i>International Communications in Heat and Mass Transfer</i>, 136, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.106209">https://doi.org/10.1016/j.icheatmasstransfer.2022.106209</a>.</p> <p>#HUSSAIN Iftikhar, IQBAL Sarmad, HUSSAIN Tanveer, CHEUNG Wai Lok, KHAN Skakeel Ahmad, #ZHOU Jun, #AHMAD Muhammad, #KHAN Shahid Ali, LAMIEL Charmaine, IMRAN Muhammad, ALFANTAZI Akram, ZHANG Kaili, "Zn-Co-MOF on solution-free CuO nanowires for flexible hybrid energy storage devices", <i>Materials Today Physics</i>, 23, 05 March 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100655">https://doi.org/10.1016/j.mtphys.2022.100655</a>.</p> <p>#HUSSAIN Iftikhar, LAMIEL Charmaine, #AHMAD Muhammad, #CHEN Yatu, #SHUANG Shuo, JAVED Muhammad Sufyan, YANG Yong, ZHANG Kaili, "High entropy alloys as</p> |

Section A: Publications of PhD Students

|  |   |
|--|---|
|  | electrode material for supercapacitors: A review", <i>Journal of Energy Storage</i> , 44(Part A), 16 October 2021, doi: <a href="https://doi.org/10.1016/j.est.2021.103405">https://doi.org/10.1016/j.est.2021.103405</a> .   |
|  | # <a href="#">HUSSAIN Iftikhar</a> , # <a href="#">AHMAD Muhammad</a> , # <a href="#">CHEN Xi</a> , ABBAS Nadir, AL ARNI Saleh, SALIH Alsamani A.M., BENAÏSSA Mhamed, ASHRAF Muhammad, AYAZ Muhammad, IMRAN Muhammad, ANSARI Mohd Zahid, <a href="#">ZHANG Kaili</a> , "Glycol-assisted Cu-doped ZnS polyhedron-like structure as binder-free novel electrode materials", <i>Journal of Saudi Chemical Society</i> , 26(4), 15 June 2022, doi: <a href="https://doi.org/10.1016/j.jscs.2022.101510">https://doi.org/10.1016/j.jscs.2022.101510</a> .                          |
|  | # <a href="#">AHMAD Muhammad</a> , NAWAZ Tehseen, ASSIRI Mohammed A., HUSSAIN Riaz, # <a href="#">HUSSAIN Iftikhar</a> , IMRAN Muhammad, ALI Shafqat, WU Zhanpeng, "Fabrication of Bimetallic Cu-Ag Nanoparticle-Decorated Poly(cyclotriphosphazene-co-4,4'-sulfonyldiphenol) and Its Enhanced Catalytic Activity for the Reduction of 4-Nitrophenol", <i>ACS Omega</i> , 7(8), 15 February 2022, pp 7096–7102, doi: <a href="https://doi.org/10.1021/acsomega.1c06786">https://doi.org/10.1021/acsomega.1c06786</a> .  |
|  | # <a href="#">HUSSAIN Iftikhar</a> , SAHOO Sumanta, LAMIEL Charmaine, NGUYEN Thi Toan, # <a href="#">AHMAD Muhammad</a> , # <a href="#">CHEN Xi</a> , IQBAL Sarmad, ALI Awais, ABBAS Nadir, JAVED Muhammad Sufyan, <a href="#">ZHANG Kaili</a> , "Research progress and future aspects: Metal selenides as effective electrodes", <i>Energy Storage Materials</i> , 47, 30 January 2022, pp 13-43, doi: <a href="https://doi.org/10.1016/j.ensm.2022.01.055">https://doi.org/10.1016/j.ensm.2022.01.055</a> .   |
|  | # <a href="#">AHMAD Muhammad</a> , # <a href="#">HUSSAIN Iftikhar</a> , NAWAZ Tehseen, # <a href="#">LI Yuxiang</a> , # <a href="#">CHEN Xi</a> , ALI Shafqat, IMRAN Muhammad, <a href="#">MA Xiaoxia</a> , <a href="#">ZHANG Kaili</a> , "Comparative study of ternary metal chalcogenides (MX; M= Zn–Co–Ni; X= S, Se, Te): Formation process, charge storage mechanism and hybrid supercapacitor", <i>Journal of Power Sources</i> , 534, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.jpowsour.2022.231414">https://doi.org/10.1016/j.jpowsour.2022.231414</a> . |
|  | JAVED Muhammad Sufyan, MATEEN Abdul, ALI Salamat, ZHANG Xiaofeng, # <a href="#">HUSSAIN Iftikhar</a> , IMRAN Muhammad, SHAH Syed Shoaib Ahmad, HAN Weihua, "The Emergence of 2D MXenes Based Zn-Ion Batteries: Recent Development and Prospects", <i>Small</i> , 18(28), 27 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201989">https://doi.org/10.1002/sml.202201989</a> .  |
|  | # <a href="#">HUSSAIN Iftikhar</a> , IQBAL Sarmad, LAMIEL Charmaine, ALFANTAZI Akram, <a href="#">ZHANG Kaili</a> , "Recent advances in oriented metal-organic frameworks for supercapacitive energy storage", <i>Journal of Materials Chemistry A</i> , 10(9), 20 January 2022, pp 4475-4488, doi: <a href="https://doi.org/10.1039/d1ta10213c">https://doi.org/10.1039/d1ta10213c</a> .   |
|  | # <a href="#">HUSSAIN Iftikhar</a> , SAHOO Sumanta, MOHAPATRA Debananda, # <a href="#">AHMAD Muhammad</a> , IQBAL Sarmad, JAVED Muhammad Sufyan, # <a href="#">GU Shuai</a> , # <a href="#">QIN Ning</a> , LAMIEL Charmaine, <a href="#">ZHANG Kaili</a> , "Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices", <i>Applied Materials Today</i> , 26, 08 December 2021, doi: <a href="https://doi.org/10.1016/j.apmt.2021.101297">https://doi.org/10.1016/j.apmt.2021.101297</a> .       |
|  | KHAN Shaukat, UL-ISLAM Mazhar, SAJJAD Muhammad, # <a href="#">HUSSAIN Iftikhar</a> , IDREES Muhammad, SAEED Muhammad, IMRAN Muhammad, JAVED Muhammad Sufyan, "Nitrogen and Sulfur Co-doped Two-Dimensional Highly Porous Carbon Nanosheets for High-Performance Lithium–Sulfur Batteries", <i>Energy and Fuels</i> , 36(4), 04 February 2022, pp 2220-2227, doi: <a href="https://doi.org/10.1021/acs.energyfuels.1c04231">https://doi.org/10.1021/acs.energyfuels.1c04231</a> .  |
|  | # <a href="#">HUSSAIN Iftikhar</a> , HUSSAIN Tanveer, # <a href="#">AHMED Syed Bilal</a> , KAELMARAYA Thanayut, # <a href="#">AHMAD Muhammad</a> , # <a href="#">CHEN Xi</a> , JAVED Muhammad Sufyan, LAMIEL Charmaine, <a href="#">ZHANG Kaili</a> , "Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation", <i>Journal of Power Sources</i> , 513, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230556">https://doi.org/10.1016/j.jpowsour.2021.230556</a> .                                |
|  | # <a href="#">HUSSAIN Iftikhar</a> , HUSSAIN Tanveer, # <a href="#">AHMAD Muhammad</a> , <a href="#">MA Xiaoxia</a> , JAVED Muhammad Sufyan, LAMIEL Charmaine, # <a href="#">CHEN Yatu</a> , AHUJA Rajeev, <a href="#">ZHANG Kaili</a> , "Modified KBBF-like Material for Energy Storage Applications: ZnNiBO <sub>3</sub> (OH) with Enhanced Cycle Life", <i>ACS Applied Materials and Interfaces</i> , 14(6), 01 February 2022, pp 8025–8035, doi: <a href="https://doi.org/10.1021/acsmi.1c23583">https://doi.org/10.1021/acsmi.1c23583</a> .                              |
|  | # <a href="#">GU Shuai</a> , # <a href="#">CHEN Yatu</a> , HAO Rui, # <a href="#">ZHOU Jun</a> , # <a href="#">HUSSAIN Iftikhar</a> , # <a href="#">QIN Ning</a> , LI Muqing, CHEN Jingjing, WANG Zhiqiang, ZHENG Wei, GAN Qingmeng, LI Zhiqiang, GUO Hao, LI Yingzhi, <a href="#">ZHANG Kaili</a> , LU Zhouguang, "Redox of naphthalenediimide radicals in a 3D  |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | polyimide for stable Li-ion batteries", <i>Chemical Communications</i> , 57(63), 07 July 2021, pp 7810-7813, doi: <a href="https://doi.org/10.1039/d1cc02426d">https://doi.org/10.1039/d1cc02426d</a> .   |
|                      | # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">SAHOO Sumanta</a> , <a href="#">SAYED Mostafa Saad</a> , # <a href="#">AHMAD Muhammad</a> , <a href="#">SUFYAN JAVED Muhammad</a> , <a href="#">LAMIEL Charmaine</a> , # <a href="#">LI Yuxiang</a> , <a href="#">SHIM Jae Jin</a> , <a href="#">MA Xiaoxia</a> , <a href="#">ZHANG Kaili</a> , "Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance", <i>Coordination Chemistry Reviews</i> , 458, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.ccr.2022.214429">https://doi.org/10.1016/j.ccr.2022.214429</a> .                                      |
|                      | <a href="#">LAMIEL Charmaine</a> , # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">OGUNSAKIN Olakunle Richard</a> , <a href="#">ZHANG Kaili</a> , "MXene in core-shell structures: research progress and future prospects", <i>Journal of Materials Chemistry A</i> , 10(27), 02 June 2022, pp 14247–14272, doi: <a href="https://doi.org/10.1039/d2ta02255a">https://doi.org/10.1039/d2ta02255a</a> .   |
|                      | <a href="#">JAVED Muhammad Sufyan</a> , <a href="#">NAJAM Tayyaba</a> , # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">SHAH Syed Shoaib Ahmad</a> , <a href="#">IBRAHEEM Shumaila</a> , <a href="#">MAHMOOD Azhar</a> , <a href="#">IMRAN Muhammad</a> , <a href="#">ASSIRI Mohammed A.</a> , <a href="#">SIYAL Sajid Hussain</a> , "Novel 2D vanadium oxysulfide nano-spindles decorated carbon textile composite as an advanced electrode for high-performance pseudocapacitors", <i>Materials Letters</i> , 303, 16 July 2021, doi: <a href="https://doi.org/10.1016/j.matlet.2021.130478">https://doi.org/10.1016/j.matlet.2021.130478</a> .  |
|                      | # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">MOHAPATRA Debananda</a> , <a href="#">LAMIEL Charmaine</a> , # <a href="#">AHMAD Muhammad</a> , <a href="#">ASHRAF Muhammad Awais</a> , # <a href="#">CHEN Yatu</a> , # <a href="#">GU Shuai</a> , <a href="#">JAVED Muhammad Sufyan</a> , <a href="#">ZHANG Kaili</a> , "Phosphorus containing layered quadruple hydroxide electrode materials on lab waste recycled flexible current collector", <i>Journal of Colloid and Interface Science</i> , 609, 16 November 2021, pp 566-574, doi: <a href="https://doi.org/10.1016/j.jcis.2021.11.063">https://doi.org/10.1016/j.jcis.2021.11.063</a> .                                       |
|                      | # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">IQBAL Sarmad</a> , <a href="#">HUSSAIN Tanveer</a> , # <a href="#">CHEN Yatu</a> , # <a href="#">AHMAD Muhammad</a> , <a href="#">JAVED Muhammad Sufyan</a> , <a href="#">ALFANTAZI Akram</a> , <a href="#">ZHANG Kaili</a> , "An oriented Ni-Co-MOF anchored on solution-free 1D CuO: a p-n heterojunction for supercapacitive energy storage", <i>Journal of Materials Chemistry A</i> , 9(33), 23 July 2021, pp 17790-17800, doi: <a href="https://doi.org/10.1039/d1ta04855d">https://doi.org/10.1039/d1ta04855d</a> .   |
|                      | <a href="#">JAVED Muhammad Sufyan</a> , <a href="#">NAJAM Tayyaba</a> , <a href="#">SAJJAD Muhammad</a> , <a href="#">SHAH Syed Shoaib Ahmad</a> , # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">IDREES Muhammad</a> , <a href="#">IMRAN Muhammad</a> , <a href="#">ASSIRI Mohammed A.</a> , <a href="#">SIYAL Sajid Hussain</a> , "Design and Fabrication of Highly Porous 2D Bimetallic Sulfide ZnS/FeS Composite Nanosheets as an Advanced Negative Electrode Material for Supercapacitors", <i>Energy and Fuels</i> , 35(18), 25 August 2021, pp 15185–15191, doi: <a href="https://doi.org/10.1021/acs.energyfuels.1c02444">https://doi.org/10.1021/acs.energyfuels.1c02444</a> . |
|                      | <a href="#">JAVED Muhammad Sufyan</a> , # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">BATOOOL Saima</a> , <a href="#">SIYAL Sajid Hussain</a> , <a href="#">NAJAM Tayyaba</a> , <a href="#">SHAH Syed Shoaib Ahmad</a> , <a href="#">IMRAN Muhammad</a> , <a href="#">ASSIRI Mohammed A.</a> , <a href="#">HUSSAIN Shahid</a> , "Energy storage properties of hydrothermally processed ultrathin 2D binder-free ZnCo <sub>2</sub> O <sub>4</sub> nanosheets", <i>Nanotechnology</i> , 32(38), 02 July 2021, doi: <a href="https://doi.org/10.1088/1361-6528/ac0c42">https://doi.org/10.1088/1361-6528/ac0c42</a> .   |
| <b>JIA Yanwen</b>    | # <a href="#">HAN Ying</a> , <a href="#">GAO Libo</a> , # <a href="#">ZHOU Jingzhuo</a> , <a href="#">HOU Yuan</a> , # <a href="#">JIA Yanwen</a> , <a href="#">CAO Ke</a> , <a href="#">DUAN Ke</a> , <a href="#">LU Yang</a> , "Deep Elastic Strain Engineering of 2D Materials and Their Twisted Bilayers", <i>ACS Applied Materials &amp; Interfaces</i> , 14(7), 11 February 2022, pp 8655–8663, doi: <a href="https://doi.org/10.1021/acsami.1c23431">https://doi.org/10.1021/acsami.1c23431</a> .  |
| <b>JIANG Xingchi</b> | # <a href="#">JIANG Xingchi</a> , <a href="#">ZHANG Shiwei</a> , # <a href="#">LI Yuanjie</a> , <a href="#">WANG Zuankai</a> , <a href="#">PAN Chin</a> , "Achieving ultra-high coefficient of performance of two-phase microchannel heat sink with uniform void fraction", <i>International Journal of Heat and Mass Transfer</i> , 184, 04 December 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.122300">https://doi.org/10.1016/j.ijheatmasstransfer.2021.122300</a> .  |
|                      | # <a href="#">LI Yuanjie</a> , <a href="#">REN Shuai</a> , <a href="#">ZHANG Shiwei</a> , # <a href="#">JIANG Xingchi</a> , <a href="#">PAN Chin</a> , "Bubble characteristics in subcooled flow boiling of seawater", <i>Chemical Engineering Journal</i> , 430, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132019">https://doi.org/10.1016/j.cej.2021.132019</a> .   |
|                      | # <a href="#">LI Yuanjie</a> , <a href="#">REN Shuai</a> , # <a href="#">JIANG Xingchi</a> , # <a href="#">SHAH Syed Waqar Ali</a> , <a href="#">PAN Chin</a> , "Onset of flow instability during subcooled flow boiling of seawater in a vertical annulus", <i>Applied Thermal Engineering</i> , 201(A), 11 November 2021, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2021.117797">https://doi.org/10.1016/j.applthermaleng.2021.117797</a> .  |
|                      | # <a href="#">JIANG Xingchi</a> , # <a href="#">SHAH Syed Waqar Ali</a> , # <a href="#">LIU Jian</a> , # <a href="#">LI Yuanjie</a> , <a href="#">ZHANG Shiwei</a> , <a href="#">WANG Zuankai</a> , <a href="#">PAN Chin</a> , "Design of micro-nano structures for counter flow diverging microchannel heat sink with extraordinarily high energy efficiency", <i>Applied Thermal</i>  |

Section A: Publications of PhD Students

|                        |   |
|------------------------|---|
|                        | <i>Engineering</i> , 209, 26 February 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118229">https://doi.org/10.1016/j.applthermaleng.2022.118229</a> .  |
| <b>KHAN Shahid Ali</b> | # <a href="#">KHAN Shahid Ali</a> , <a href="#">EZE Chika</a> , # <a href="#">KHAN Shahid Ali</a> , # <a href="#">SHAHID Ali Raza</a> , <a href="#">PATIL Mahesh Suresh</a> , <a href="#">AHMAD Shakeel</a> , # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">ZHAO Jiyun</a> , "Design of a new optimized U-shaped lightweight liquid-cooled battery thermal management system for electric vehicles: A machine learning approach", <i>International Communications in Heat and Mass Transfer</i> , 136, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.106209">https://doi.org/10.1016/j.icheatmasstransfer.2022.106209</a> .                |
|                        | # <a href="#">KHAN Shahid Ali</a> , <a href="#">EZE Chika</a> , # <a href="#">KHAN Shahid Ali</a> , # <a href="#">SHAHID Ali Raza</a> , <a href="#">PATIL Mahesh Suresh</a> , <a href="#">AHMAD Shakeel</a> , # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">ZHAO Jiyun</a> , "Design of a new optimized U-shaped lightweight liquid-cooled battery thermal management system for electric vehicles: A machine learning approach", <i>International Communications in Heat and Mass Transfer</i> , 136, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.106209">https://doi.org/10.1016/j.icheatmasstransfer.2022.106209</a> .                |
|                        | # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">IQBAL Sarmad</a> , <a href="#">HUSSAIN Tanveer</a> , <a href="#">CHEUNG Wai Lok</a> , <a href="#">KHAN Skakeel Ahmad</a> , # <a href="#">ZHOU Jun</a> , # <a href="#">AHMAD Muhammad</a> , # <a href="#">KHAN Shahid Ali</a> , <a href="#">LAMIEL Charmaine</a> , <a href="#">IMRAN Muhammad</a> , <a href="#">ALFANTAZI Akram</a> , <a href="#">ZHANG Kaili</a> , "Zn-Co-MOF on solution-free CuO nanowires for flexible hybrid energy storage devices", <i>Materials Today Physics</i> , 23, 05 March 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100655">https://doi.org/10.1016/j.mtphys.2022.100655</a> . |
|                        | # <a href="#">DONG Kejian</a> , <a href="#">AHMAD Shakeel</a> , # <a href="#">KHAN Shahid Ali</a> , <a href="#">DING Peng</a> , <a href="#">LI Wenhui</a> , <a href="#">ZHAO Jiyun</a> , "Thermal-hydraulic analysis of wire-wrapped rod bundle in lead-based fast reactor with non-uniform heat flux", <i>International Journal of Energy Research</i> , 28 June 2022, doi: <a href="https://doi.org/10.1002/er.8316">https://doi.org/10.1002/er.8316</a> .  |
|                        | # <a href="#">KHAN Shahid Ali</a> , <a href="#">EZE Chika</a> , # <a href="#">LAU Kwun Ting</a> , <a href="#">ALI Bagh</a> , <a href="#">AHMAD Shakeel</a> , # <a href="#">NI Song</a> , <a href="#">ZHAO Jiyun</a> , "Study on the novel suppression of heat transfer deterioration of supercritical water flowing in vertical tube through the suspension of alumina nanoparticles", <i>International Communications in Heat and Mass Transfer</i> , 132, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105893">https://doi.org/10.1016/j.icheatmasstransfer.2022.105893</a> .   |
|                        | <a href="#">ALI Bagh</a> , # <a href="#">KHAN Shahid Ali</a> , <a href="#">HUSSEIN Ahmed Kadhim</a> , <a href="#">THUMMA Thirupathi</a> , <a href="#">HUSSAIN Sajjad</a> , "Hybrid nanofluids: Significance of gravity modulation, heat source/ sink, and magnetohydrodynamic on dynamics of micropolar fluid over an inclined surface via finite element simulation", <i>Applied Mathematics and Computation</i> , 419, 27 December 2021, doi: <a href="https://doi.org/10.1016/j.amc.2021.126878">https://doi.org/10.1016/j.amc.2021.126878</a> .   |
| <b>KONG Ka Wai</b>     | # <a href="#">KONG Ka Wai</a> , <a href="#">CHAN Ho Yin</a> , # <a href="#">HUANG Qingyun</a> , <a href="#">LEE Francis Chee Shuen</a> , <a href="#">LEUNG Yeuk-lan Alice</a> , <a href="#">GUAN Binghe</a> , <a href="#">SHEN Jiangang</a> , <a href="#">WONG Vivian Taam Chi Woon</a> , <a href="#">LI Wen Jung</a> , "Sphygmopalpation using Tactile Robotic Fingers Reveals Fundamental Arterial Pulse Patterns", <i>IEEE Access</i> , 10, 18 January 2022, pp 12252-12261, doi: <a href="https://doi.org/10.1109/ACCESS.2022.3144475">https://doi.org/10.1109/ACCESS.2022.3144475</a> .  |
| <b>LAU Kwun Ting</b>   | # <a href="#">KHAN Shahid Ali</a> , <a href="#">EZE Chika</a> , # <a href="#">LAU Kwun Ting</a> , <a href="#">ALI Bagh</a> , <a href="#">AHMAD Shakeel</a> , # <a href="#">NI Song</a> , <a href="#">ZHAO Jiyun</a> , "Study on the novel suppression of heat transfer deterioration of supercritical water flowing in vertical tube through the suspension of alumina nanoparticles", <i>International Communications in Heat and Mass Transfer</i> , 132, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105893">https://doi.org/10.1016/j.icheatmasstransfer.2022.105893</a> .   |
| <b>LI Gan</b>          | <a href="#">GUO Chuan</a> , <a href="#">YU Zhengrong</a> , <a href="#">HU Xiaogang</a> , # <a href="#">LI Gan</a> , <a href="#">ZHOU Fan</a> , <a href="#">XU Zhen</a> , <a href="#">HAN Shuang</a> , <a href="#">ZHOU Yang</a> , <a href="#">WARD R. Mark</a> , <a href="#">ZHU Qiang</a> , "Y <sub>2</sub> O <sub>3</sub> nanoparticles decorated IN738LC superalloy manufactured by laser powder bed fusion: Cracking inhibition, microstructures and mechanical properties", <i>Composites Part B: Engineering</i> , 230, 06 December 2021, doi: <a href="https://doi.org/10.1016/j.compositesb.2021.109555">https://doi.org/10.1016/j.compositesb.2021.109555</a> .      |
| <b>LI Haolin</b>       | # <a href="#">LI Haolin</a> , <a href="#">WANG Kuan-Wen</a> , <a href="#">HU Alice</a> , <a href="#">CHOU Jyh-Pin</a> , <a href="#">CHEN Tsan-Yao</a> , "Tri-atomic Pt clusters induce effective pathways in a Co <sub>core</sub> -Pd <sub>shell</sub> nanocatalyst surface for a high-performance oxygen reduction reaction", <i>Physical Chemistry Chemical Physics</i> , 23(33), 26 July 2021, pp 18012-18025, doi: <a href="https://doi.org/10.1039/d1cp01989a">https://doi.org/10.1039/d1cp01989a</a> .  |
|                        | <a href="#">DONG Qi</a> , # <a href="#">LI Haolin</a> , <a href="#">SHUMING-XING</a> , <a href="#">QIU Bo</a> , "Effect of Casting Pressure on Microstructure and Anti-abrasion Property of KmTBCr26 White Cast Iron", <i>International Journal of Metalcasting</i> , 16 April 2022, doi: <a href="https://doi.org/10.1007/s40962-022-00789-7">https://doi.org/10.1007/s40962-022-00789-7</a> .   |



Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
| <p><b>LI Jing</b></p>    | <p>ZHANG Yiyuan, #LI Jing, XIANG Le, WANG Jinxing, WU Tao, JIAO Yunlong, JIANG Shaojun, LI Chuanzong, FAN Shengying, ZHANG Juan, WU Hao, ZHANG Yuxuan, BIAN Yucheng, ZHAO Kun, PENG Yubin, ZHU Wulin, LI Jiawen, HU Yanlei, WU Dong, CHU Jiaru, <u>WANG Zuankai</u>, "A Biocompatible Vibration-Actuated Omni-Droplets Rectifier with Large Volume Range Fabricated by Femtosecond Laser", <i>Advanced Materials</i>, 34(12), 05 December 2021, doi: <a href="https://doi.org/10.1002/adma.202108567">https://doi.org/10.1002/adma.202108567</a>.</p>  |
| <p><b>LI Pengyu</b></p>  | <p>#HONG Ying, JIN Lihan, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, LEE Youngjin, KHOO Bee Luan, <u>YANG Zhengbao</u>, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i>, 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a>.</p> <p>#YAN Xiantong, XU Wanghuai, DENG Yajun, ZHANG Chao, ZHENG Huanxi, #YANG Siyan, #SONG Yuxin, #LI Pengyu, #XU Xiaote, HU Yue, ZHANG Luwen, <u>YANG Zhengbao</u>, <u>WANG Steven</u>, <u>WANG Zuankai</u>, "Bubble energy generator", <i>Science Advances</i>, 8(25), 24 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abo7698">https://doi.org/10.1126/sciadv.abo7698</a>.</p> <p>#WANG Biao, #HONG Ying, #LONG Zhihe, #PAN Qiqi, #LI Pengyu, YAO Xi, <u>YANG Zhengbao</u>, "Characterization of Wrist Motions and Bionic Energy Harvesting for Wrist Wearables", <i>IEEE Internet of Things Journal</i>, 03 June 2022, doi: <a href="https://doi.org/10.1109/JIOT.2022.3178719">https://doi.org/10.1109/JIOT.2022.3178719</a>.</p> <p>#LONG Zhihe, #PAN Qiqi, #LI Pengyu, CHUNG Shu Hung Henry, <u>YANG Zhengbao</u>, "Direct Adaptive SSDV Circuit for Piezoelectric Shunt Damping", <i>IEEE Transactions on Industrial Electronics</i>, 15 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3179565">https://doi.org/10.1109/TIE.2022.3179565</a>.</p> <p>#LONG Zhihe, #LI Pengyu, WANG Xiudeng, #WANG Biao, CHUNG Shu Hung Henry, <u>YANG Zhengbao</u>, "A Self-Powered P-SSHI Array Interface for Piezoelectric Energy Harvesters with Arbitrary Phase Difference", <i>IEEE Transactions on Industrial Electronics</i>, 69(9), 22 September 2021, pp 9155-9164, doi: <a href="https://doi.org/10.1109/TIE.2021.3113016">https://doi.org/10.1109/TIE.2021.3113016</a>.</p> <p>#XU Xiaote, #LI Pengyu, DING Yongtao, XU Wanghuai, #LIU Shiyuan, #ZHANG Zhuomin, <u>WANG Zuankai</u>, <u>YANG Zhengbao</u>, "Droplet energy harvesting panel", <i>Energy &amp; Environmental Science</i>, 15(7), 15 June 2022, pp 2916–2926, doi: <a href="https://doi.org/10.1039/d2ee00357k">https://doi.org/10.1039/d2ee00357k</a>.</p> <p>#LONG Zhihe, #LI Pengyu, CHEN Jun, CHUNG Shu Hung Henry, <u>YANG Zhengbao</u>, "Self-Powered Single-Inductor Rectifier-Less SSHI Array Interface with the MPPT Technique for Piezoelectric Energy Harvesting", <i>IEEE Transactions on Industrial Electronics</i>, 69(10), 06 January 2022, pp 10172-10181, doi: <a href="https://doi.org/10.1109/TIE.2021.3139175">https://doi.org/10.1109/TIE.2021.3139175</a>.</p> <p>#XU Xiaote, #WANG Yilong, #LI Pengyu, XU Wanghuai, WEI Lei, <u>WANG Zuankai</u>, <u>YANG Zhengbao</u>, "A leaf-mimic rain energy harvester by liquid-solid contact electrification and piezoelectricity", <i>Nano Energy</i>, 90, 27 September 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106573">https://doi.org/10.1016/j.nanoen.2021.106573</a>.</p> |
| <p><b>LI Xiaocui</b></p> | <p>#WANG Heyi, WU Hong, #LIN Weitong, ZHANG Bin, #LI Xiaocui, ZHANG Yang, <u>FAN Sufeng</u>, <u>DANG Chaogun</u>, ZHU Yingxin, <u>ZHAO Shijun</u>, ZHOU Xiaoyuan, <u>LU Yang</u>, "Orientation-dependent large plasticity of single-crystalline gallium selenide", <i>Cell Reports Physical Science</i>, 3(4), 15 March 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2022.100816">https://doi.org/10.1016/j.xcrp.2022.100816</a>.</p> <p>KARTHIKEYAN Vaithinathan, SAW Lin Oo, #SURJADI James Utama, #LI Xiaocui, #VASKURI Chandra Sekhara Theja, KANNAN Venkataramanan, LAU Siu Chuen, <u>LU Yang</u>, LAM Kwok-Ho, VELLAISAMY Arul Lenus Roy, "Defect Engineering Boosted Ultrahigh Thermoelectric Power Conversion Efficiency in Polycrystalline SnSe", <i>ACS Applied Materials and Interfaces</i>, 13(49), 01 December 2021, pp 58701–58711, doi: <a href="https://doi.org/10.1021/acsami.1c18194">https://doi.org/10.1021/acsami.1c18194</a>.</p> <p>ZHANG Xiaofeng, #LI Xiaocui, PAN Zhangweihao, LAI Yongjian, <u>LU Yang</u>, WANG Yi, SONG Shuqin, "Boosting hydrogen evolution electrocatalysis through defect engineering: A strategy of heat and cool shock", <i>Chemical Engineering Journal</i>, 426, 08 August 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.131524">https://doi.org/10.1016/j.cej.2021.131524</a>.</p>   |
| <p><b>LI Yuanjie</b></p> | <p>#JIANG Xingchi, ZHANG Shiwei, #LI Yuanjie, <u>WANG Zuankai</u>, PAN Chin, "Achieving ultra-high coefficient of performance of two-phase microchannel heat sink with uniform void</p>  |

Section A: Publications of PhD Students

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|---------------------|--|
|                     | <p>fraction", <i>International Journal of Heat and Mass Transfer</i>, 184, 04 December 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.122300">https://doi.org/10.1016/j.ijheatmasstransfer.2021.122300</a>.</p> <p>#<a href="#">LI Yuanjie</a>, <a href="#">REN Shuai</a>, <a href="#">ZHANG Shiwei</a>, <a href="#">JIANG Xingchi</a>, <a href="#">PAN Chin</a>, "Bubble characteristics in subcooled flow boiling of seawater", <i>Chemical Engineering Journal</i>, 430, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132019">https://doi.org/10.1016/j.cej.2021.132019</a>.</p> <p>#<a href="#">LI Yuanjie</a>, <a href="#">REN Shuai</a>, <a href="#">JIANG Xingchi</a>, <a href="#">SHAH Syed Waqar Ali</a>, <a href="#">PAN Chin</a>, "Onset of flow instability during subcooled flow boiling of seawater in a vertical annulus", <i>Applied Thermal Engineering</i>, 201(A), 11 November 2021, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2021.117797">https://doi.org/10.1016/j.applthermaleng.2021.117797</a>.</p> <p>#<a href="#">LI Yuanjie</a>, <a href="#">PAN Chin</a>, "On the rupture of bubble foam in subcooled flow boiling of seawater in a vertical annulus", <i>International Journal of Heat and Mass Transfer</i>, 194, 27 May 2022, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2022.123061">https://doi.org/10.1016/j.ijheatmasstransfer.2022.123061</a>.</p> <p>#<a href="#">JIANG Xingchi</a>, <a href="#">SHAH Syed Waqar Ali</a>, <a href="#">LIU Jian</a>, <a href="#">LI Yuanjie</a>, <a href="#">ZHANG Shiwei</a>, <a href="#">WANG Zuankai</a>, <a href="#">PAN Chin</a>, "Design of micro-nano structures for counter flow diverging microchannel heat sink with extraordinarily high energy efficiency", <i>Applied Thermal Engineering</i>, 209, 26 February 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118229">https://doi.org/10.1016/j.applthermaleng.2022.118229</a>.</p>   |
| <b>LI Yuchao</b>    | <p>#<a href="#">LI Yuchao</a>, <a href="#">WANG Mingmei</a>, <a href="#">ZHANG Chao</a>, <a href="#">WANG Chun-Chuan</a>, <a href="#">XU Wanghuai</a>, <a href="#">GAO Shouwei</a>, <a href="#">ZHOU Yongsun</a>, <a href="#">WANG Chun-Ta</a>, <a href="#">WANG Zuankai</a>, "A Fully Self-Powered Cholesteric Smart Window Actuated by Droplet-Based Electricity Generator", <i>Advanced Optical Materials</i>, 10(7), 11 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102274">https://doi.org/10.1002/adom.202102274</a>.</p> <p><a href="#">JIANG Mengnan</a>, <a href="#">WANG Yang</a>, <a href="#">LIU Fayu</a>, <a href="#">DU Hanheng</a>, <a href="#">LI Yuchao</a>, <a href="#">ZHANG Huanhuan</a>, <a href="#">TO Suet</a>, <a href="#">WANG Steven</a>, <a href="#">PAN Chin</a>, <a href="#">YU Jihong</a>, <a href="#">QUÉRÉ David</a>, <a href="#">WANG Zuankai</a>, "Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling", <i>Nature</i>, 601(7894), 26 January 2022, pp 568-572, doi: <a href="https://doi.org/10.1038/s41586-021-04307-3">https://doi.org/10.1038/s41586-021-04307-3</a>.</p> <p><a href="#">ZHAO Yanhua</a>, <a href="#">GUO Jiaxin</a>, <a href="#">LI Yuchao</a>, <a href="#">ZHANG Xinning</a>, <a href="#">AN Kyoung Jin Alicia</a>, <a href="#">WANG Zuankai</a>, "Superhydrophobic and superoleophilic PH-CNT membrane for emulsified oil-water separation", <i>Desalination</i>, 526, 15 January 2022, doi: <a href="https://doi.org/10.1016/j.desal.2021.115536">https://doi.org/10.1016/j.desal.2021.115536</a>.</p>   |
| <b>LI Yuxiang</b>   | <p><a href="#">MA Xiaoxia</a>, <a href="#">GU Shuai</a>, <a href="#">LI Yuxiang</a>, <a href="#">LU Jian</a>, <a href="#">YANG Guangcheng</a>, <a href="#">ZHANG Kaili</a>, "Additive-Free Energetic Film Based on Graphene Oxide and Nanoscale Energetic Coordination Polymer for Transient Microchip", <i>Advanced Functional Materials</i>, 31(42), 21 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202103199">https://doi.org/10.1002/adfm.202103199</a>.</p> <p>#<a href="#">AHMAD Muhammad</a>, <a href="#">HUSSAIN Iftikhar</a>, <a href="#">NAWAZ Tehseen</a>, <a href="#">LI Yuxiang</a>, <a href="#">CHEN Xi</a>, <a href="#">ALI Shafqat</a>, <a href="#">IMRAN Muhammad</a>, <a href="#">MA Xiaoxia</a>, <a href="#">ZHANG Kaili</a>, "Comparative study of ternary metal chalcogenides (MX; M= Zn–Co–Ni; X= S, Se, Te): Formation process, charge storage mechanism and hybrid supercapacitor", <i>Journal of Power Sources</i>, 534, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.jpowsour.2022.231414">https://doi.org/10.1016/j.jpowsour.2022.231414</a>.</p> <p><a href="#">MA Xiaoxia</a>, <a href="#">CHEN Xi</a>, <a href="#">LI Yuxiang</a>, <a href="#">QIAO Zhiqiang</a>, <a href="#">YANG Guangcheng</a>, <a href="#">ZHANG Kaili</a>, "Aluminized energetic coordination polymers constructed from transition metal centers (Co, Ni, and Cu)", <i>Propellants, Explosives, Pyrotechnics</i>, 46(10), 06 July 2021, pp 1598-1610, doi: <a href="https://doi.org/10.1002/prop.202100097">https://doi.org/10.1002/prop.202100097</a>, <a href="https://doi.org/10.1002/prop.202100097">https://doi.org/10.1002/prop.202100097</a>.</p> <p>#<a href="#">HUSSAIN Iftikhar</a>, <a href="#">SAHOO Sumanta</a>, <a href="#">SAYED Mostafa Saad</a>, <a href="#">AHMAD Muhammad</a>, <a href="#">SUFYAN JAVED Muhammad</a>, <a href="#">LAMIEL Charmaine</a>, <a href="#">LI Yuxiang</a>, <a href="#">SHIM Jae Jin</a>, <a href="#">MA Xiaoxia</a>, <a href="#">ZHANG Kaili</a>, "Hollow nano- and microstructures: Mechanism, composition, applications, and factors affecting morphology and performance", <i>Coordination Chemistry Reviews</i>, 458, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.ccr.2022.214429">https://doi.org/10.1016/j.ccr.2022.214429</a>.</p> |
| <b>LI Ziyong</b>    | <p><a href="#">XIONG Shufeng</a>, <a href="#">LIU Jian</a>, <a href="#">CAO Jiwei</a>, <a href="#">LI Ziyong</a>, <a href="#">IDREES Muhammad</a>, <a href="#">LIN Xiao</a>, <a href="#">LONG Zhongyu</a>, <a href="#">LIU Zhiyuan</a>, <a href="#">WANG Pei</a>, <a href="#">LIU Changyong</a>, <a href="#">CHEN Zhangwei</a>, "3D printing of crack-free dense polymer-derived ceramic monoliths and lattice skeletons with improved thickness and mechanical performance", <i>Additive Manufacturing</i>, 57, 15 June 2022, doi: <a href="https://doi.org/10.1016/j.addma.2022.102964">https://doi.org/10.1016/j.addma.2022.102964</a>.</p>   |
| <b>LIAO Meizhen</b> | <p><a href="#">ZHANG Zhenbang</a>, <a href="#">LIAO Meizhen</a>, <a href="#">LI Maohua</a>, <a href="#">LI Linhong</a>, <a href="#">WEI Xianzhe</a>, <a href="#">KONG Xiangdong</a>, <a href="#">XIONG Shaoyang</a>, <a href="#">XIA Juncheng</a>, <a href="#">FU Liqin</a>, <a href="#">CAI Tao</a>, <a href="#">PAN Zhongbin</a>, <a href="#">LI Haonan</a>,</p>   |

## Section A: Publications of PhD Students

|             |   |
|-------------|---|
|             | HAN Fei, LIN Cheng-Te, NISHIMURA Kazuhito, JIANG Nan, YU Jinhong, "Enhanced thermal conductivity for polydimethylsiloxane composites with core-shell CFs@SiC filler", <i>Composites Communications</i> , 33, 09 June 2022, doi: <a href="https://doi.org/10.1016/j.coco.2022.101209">https://doi.org/10.1016/j.coco.2022.101209</a> .   |
| LIN Weikang | #LIU Shiyuan, #SHAN Yao, #HONG Ying, JIN Yuankai, #LIN Weikang, #ZHANG Zhuomin, #XU Xiaote, WANG Zuankai, YANG Zhengbao, "3D Conformal Fabrication of Piezoceramic Films", <i>Advanced Science</i> , 28 April 2022, doi: <a href="https://doi.org/10.1002/advs.202106030">https://doi.org/10.1002/advs.202106030</a> .  |
|             | #WANG Biao, #LONG Zhihe, #HONG Ying, #PAN Qiqi, #LIN Weikang, YANG Zhengbao, "Woodpecker-mimic two-layer band energy harvester with a piezoelectric array for powering wrist-worn wearables", <i>Nano Energy</i> , 89(Pt. A), 30 July 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106385">https://doi.org/10.1016/j.nanoen.2021.106385</a> .  |
| LIN Weitong | KAI W., JIANG Z. Y., CHEN G. T., LEE I. H., LIN H. J., HSIEH H. H., #LIN Weitong, KAI Ji-jung, "High-temperature air-oxidation of NiCoCrAl <sub>x</sub> medium-entropy alloys", <i>Corrosion Science</i> , 192, 24 September 2021, doi: <a href="https://doi.org/10.1016/j.corsci.2021.109858">https://doi.org/10.1016/j.corsci.2021.109858</a> .   |
|             | NAEEM Muhammad, HE Haiyan, HARJO Stefanus, KAWASAKI Takuro, #LIN Weitong, KAI Ji-jung, WU Zhenduo, LAN Si, WANG Xun-Li, "Temperature-dependent hardening contributions in CrFeCoNi high-entropy alloy", <i>Acta Materialia</i> , 221, 07 October 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117371">https://doi.org/10.1016/j.actamat.2021.117371</a> .   |
|             | #LIN Weitong, YELI Guma, WANG G., LIN J. H., ZHAO Shijun, CHEN Da, #LIU Shaofei, MENG F. L., LI Yiran, HE Feng, LU Yang, KAI Ji-jung, "He-enhanced heterogeneity of radiation-induced segregation in FeNiCoCr high-entropy alloy", <i>Journal of Materials Science and Technology</i> , 101, 29 July 2021, pp 226-233, doi: <a href="https://doi.org/http://10.1016/j.jmst.2021.05.053">https://doi.org/http://10.1016/j.jmst.2021.05.053</a> . |
|             | #WANG Heyi, WU Hong, #LIN Weitong, ZHANG Bin, #LI Xiaocui, ZHANG Yang, FAN Sufeng, DANG Chaoqun, ZHU Yingxin, ZHAO Shijun, ZHOU Xiaoyuan, LU Yang, "Orientation-dependent large plasticity of single-crystalline gallium selenide", <i>Cell Reports Physical Science</i> , 3(4), 15 March 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2022.100816">https://doi.org/10.1016/j.xcrp.2022.100816</a> .                                      |
|             | GUAN Shixue, #LIN Weitong, LIANG Hao, LIANG Wenjia, TIAN Yi, HE Duanwei, PENG Fang, "The effect of pressure tuning on the structure and mechanical properties of high-entropy carbides", <i>Scripta Materialia</i> , 216, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.scriptamat.2022.114755">https://doi.org/10.1016/j.scriptamat.2022.114755</a> .   |
|             | LIANG Hao, #LIN Weitong, FANG Leiming, GUAN Shixue, WANG Qiming, WANG Wenqiang, FAN Zhijian, LIU Lei, KAI Ji-jung, PENG Fang, LU Cheng, "Achieving Dislocation Strengthening in Hafnium Carbide through High Pressure and High Temperature", <i>Journal of Physical Chemistry C</i> , 125(43), 26 October 2021, pp 24254-24262, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c08086">https://doi.org/10.1021/acs.jpcc.1c08086</a> .          |
|             | #LIU Shaofei, #LIN Weitong, CHEN Da, HAN Bin, ZHAO Shijun, HE Feng, NIU Huan, KAI Ji-jung, "Effects of temperature on helium cavity evolution in single-phase concentrated solid-solution alloys", <i>Journal of Nuclear Materials</i> , 557, 20 August 2021, doi: <a href="https://doi.org/10.1016/j.jnucmat.2021.153261">https://doi.org/10.1016/j.jnucmat.2021.153261</a> .  |
|             | ZHANG Wei, ZHANG Jiawei, ZENG Yingying, #LIN Weitong, LIU Lei, GUAN Shixue, ZHANG Zhengang, GUO Huazhong, PENG Fang, LIANG Hao, "Pressure-Induced Phase Transition and Compression Properties of HfO <sub>2</sub> Nanocrystals", <i>Inorganic Chemistry</i> , 61(8), 17 February 2022, pp 3498–3507, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c03450">https://doi.org/10.1021/acs.inorgchem.1c03450</a> .                           |
|             | ABBAS Waseem, #LIN Weitong, KAI Ji-jung, HO Derek, PRAMANICK Abhijit, "Critical Effect of Film-Electrode Interface on Enhanced Energy Storage Performance of BaTiO <sub>3</sub> -BiScO <sub>3</sub> Ferroelectric Thin Films", <i>ACS Applied Electronic Materials</i> , 3(11), 27 October 2021, pp 4726–4733, doi: <a href="https://doi.org/10.1021/acsaelm.1c00576">https://doi.org/10.1021/acsaelm.1c00576</a> .                             |
|             | ZHAO Yilu, LI Yiran, YELI Guma, LUAN Junhua, #LIU Shaofei, #LIN Weitong, CHEN Da, LIU X. J., KAI Ji-jung, LIU Chain Tsuan, YANG Tao, "Anomalous precipitate-size-dependent ductility in multicomponent high-entropy alloys with dense nanoscale precipitates", <i>Acta Materialia</i> , 223, 13 November 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117480">https://doi.org/10.1016/j.actamat.2021.117480</a> .                 |
| LING Chen   | #DENG Wei, #SUN Yajun, #YAO Xiaoxue, SUBRAMANIAN SENTHILKANNAN Karpagam, #LING Chen, #WANG Hongbo, CHOPRA Shauhrat Singh, XU Ben Bin, WANG Jie-Xin, CHEN  |

Section A: Publications of PhD Students

|             |   |
|-------------|---|
|             | Jian-Feng, WANG Dan, AMANCIO Honeyfer, PRAMANA Stevin, YE Ruquan, WANG Steven, "Masks for COVID-19", <i>Advanced Science</i> , 9(3), 26 November 2021, doi: <a href="https://doi.org/10.1002/advs.202102189">https://doi.org/10.1002/advs.202102189</a> .   |
| LIU Fayu    | JIANG Mengnan, WANG Yang, #LIU Fayu, DU Hanheng, #LI Yuchao, #ZHANG Huanhuan, TO Suet, WANG Steven, PAN Chin, YU Jihong, QUÉRÉ David, WANG Zuankai, "Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling", <i>Nature</i> , 601(7894), 26 January 2022, pp 568-572, doi: <a href="https://doi.org/10.1038/s41586-021-04307-3">https://doi.org/10.1038/s41586-021-04307-3</a> .  |
| LIU Jian    | #JIANG Xingchi, #SHAH Syed Waqar Ali, #LIU Jian, #LI Yuanjie, ZHANG Shiwei, WANG Zuankai, PAN Chin, "Design of micro-nano structures for counter flow diverging microchannel heat sink with extraordinarily high energy efficiency", <i>Applied Thermal Engineering</i> , 209, 26 February 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118229">https://doi.org/10.1016/j.applthermaleng.2022.118229</a> .   |
| LIU Shaofei | #LIN Weitong, YELI Guma, WANG G., LIN J. H., ZHAO Shijun, CHEN Da, #LIU Shaofei, MENG F. L., LI Yiran, HE Feng, LU Yang, KAI Ji-jung, "He-enhanced heterogeneity of radiation-induced segregation in FeNiCoCr high-entropy alloy", <i>Journal of Materials Science and Technology</i> , 101, 29 July 2021, pp 226-233, doi: <a href="https://doi.org/http://10.1016/j.jmst.2021.05.053">https://doi.org/http://10.1016/j.jmst.2021.05.053</a> .   |
|             | #LIU Shaofei, #LIN Weitong, CHEN Da, HAN Bin, ZHAO Shijun, HE Feng, NIU Huan, KAI Ji-jung, "Effects of temperature on helium cavity evolution in single-phase concentrated solid-solution alloys", <i>Journal of Nuclear Materials</i> , 557, 20 August 2021, doi: <a href="https://doi.org/10.1016/j.jnucmat.2021.153261">https://doi.org/10.1016/j.jnucmat.2021.153261</a> .  |
|             | #ZHANG Jianyang, XIAO Bo, LI Q., CAO Boxuan, HOU Jinxiong, #LIU Shaofei, #ZHANG Jixun, #XIAO Weicheng, LUAN Junhua, ZHAO Y. L., LIU Chain Tsuan, YANG Tao, "Temperature-dependent microstructural evolutions and deformation mechanisms of (Ni <sub>2</sub> Co <sub>2</sub> FeCr) <sub>92</sub> Al <sub>4</sub> Nb <sub>4</sub> high-entropy alloys", <i>Journal of Alloys and Compounds</i> , 918, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165597">https://doi.org/10.1016/j.jallcom.2022.165597</a> . |
|             | ZHAO Yilu, LI Yiran, YELI Guma, LUAN Junhua, #LIU Shaofei, #LIN Weitong, CHEN Da, LIU X. J., KAI Ji-jung, LIU Chain Tsuan, YANG Tao, "Anomalous precipitate-size-dependent ductility in multicomponent high-entropy alloys with dense nanoscale precipitates", <i>Acta Materialia</i> , 223, 13 November 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117480">https://doi.org/10.1016/j.actamat.2021.117480</a> .   |
| LIU Shiyuan | #HONG Ying, JIN Lihan, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, LEE Youngjin, KHOO Bee Luan, YANG Zhengbao, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i> , 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a> .  |
|             | #SHAN Yao, #LIU Shiyuan, #WANG Biao, #HONG Ying, ZHANG Chao, LIM C W, ZHANG Guangzu, YANG Zhengbao, "A gravity-driven sintering method to fabricate geometrically complex compact piezoceramics", <i>Nature Communications</i> , 12, 18 October 2021, doi: <a href="https://doi.org/10.1038/s41467-021-26373-x">https://doi.org/10.1038/s41467-021-26373-x</a> .  |
|             | #ZHANG Zhuomin, #LIU Shiyuan, #PAN Qiqi, #HONG Ying, #SHAN Yao, #PENG Zehua, #XU Xiaote, LIU Bingren, CHAI Yu, YANG Zhengbao, "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i> , 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a> .   |
|             | #XU Xiaote, #LI Pengyu, DING Yongtao, XU Wanghuai, #LIU Shiyuan, #ZHANG Zhuomin, WANG Zuankai, YANG Zhengbao, "Droplet energy harvesting panel", <i>Energy &amp; Environmental Science</i> , 15(7), 15 June 2022, pp 2916–2926, doi: <a href="https://doi.org/10.1039/d2ee00357k">https://doi.org/10.1039/d2ee00357k</a> .  |
|             | #LIU Shiyuan, #SHAN Yao, #HONG Ying, JIN Yuankai, #LIN Weikang, #ZHANG Zhuomin, #XU Xiaote, WANG Zuankai, YANG Zhengbao, "3D Conformal Fabrication of Piezoceramic Films", <i>Advanced Science</i> , 28 April 2022, doi: <a href="https://doi.org/10.1002/advs.202106030">https://doi.org/10.1002/advs.202106030</a> .  |
|             | #HONG Ying, #WANG Biao, #LONG Zhihe, #ZHANG Zhuomin, #PAN Qiqi, #LIU Shiyuan, LUO Xiaowei, YANG Zhengbao, "Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability", <i>Advanced Functional Materials</i> , 31(42), 24 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104737">https://doi.org/10.1002/adfm.202104737</a> .   |

Section A: Publications of PhD Students

|   |  |
|---|--|
| <b>LONG Zhihe</b>   | #HONG Ying, JIN Lihan, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, LEE Youngjin, KHOO Bee Luan, YANG Zhengbao, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i> , 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a> . |
|   | TIAN Ming-En, #LONG Zhihe, FENG Li-Jun, HE Lei-Lei, ZHANG Tian-Liang, "Switchable and tunable triple-channel bandpass filter", <i>Chinese Physics B</i> , 31(7), 27 January 2022, doi: <a href="https://doi.org/10.1088/1674-1056/ac4f4f">https://doi.org/10.1088/1674-1056/ac4f4f</a> .   |
|   | #WANG Biao, #HONG Ying, #LONG Zhihe, #PAN Qiqi, #LI Pengyu, YAO Xi, YANG Zhengbao, "Characterization of Wrist Motions and Bionic Energy Harvesting for Wrist Wearables", <i>IEEE Internet of Things Journal</i> , 03 June 2022, doi: <a href="https://doi.org/10.1109/JIOT.2022.3178719">https://doi.org/10.1109/JIOT.2022.3178719</a> .   |
|   | #LONG Zhihe, #PAN Qiqi, #LI Pengyu, CHUNG Shu Hung Henry, YANG Zhengbao, "Direct Adaptive SSDV Circuit for Piezoelectric Shunt Damping", <i>IEEE Transactions on Industrial Electronics</i> , 15 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3179565">https://doi.org/10.1109/TIE.2022.3179565</a> .   |
|   | TIAN Mingen, #LONG Zhihe, FENG Lijun, HE Leilei, ZHANG Tianliang, "Fully reconfigurable microstrip bandpass filter with tunable equivalent impedance and six transmission zeros", <i>AEU - International Journal of Electronics and Communications</i> , 146, 13 January 2022, doi: <a href="https://doi.org/10.1016/j.aeue.2022.154114">https://doi.org/10.1016/j.aeue.2022.154114</a> .  |
|   | TIAN Mingen, #LONG Zhihe, FENG Lijun, HE Leilei, ZHANG Tianliang, "A Compact Wide-Range Frequency and Bandwidth Reconfigurable Filter", <i>IEEE Microwave and Wireless Components Letters</i> , 08 June 2022, doi: <a href="https://doi.org/10.1109/LMWC.2022.3178722">https://doi.org/10.1109/LMWC.2022.3178722</a> .   |
|   | NING Zirui, #LONG Zhihe, YANG Guangyou, XING Lili, XUE Xinyu, "Self-Powered Wearable Biosensor in a Baby Diaper for Monitoring Neonatal Jaundice through a Hydrovoltaic-Biosensing Coupling Effect of ZnO Nanoarray", <i>Biosensors</i> , 12(3), 06 March 2022, doi: <a href="https://doi.org/10.3390/bios12030164">https://doi.org/10.3390/bios12030164</a> .   |
|   | #LONG Zhihe, #LI Pengyu, WANG Xiudeng, #WANG Biao, CHUNG Shu Hung Henry, YANG Zhengbao, "A Self-Powered P-SSHI Array Interface for Piezoelectric Energy Harvesters with Arbitrary Phase Difference", <i>IEEE Transactions on Industrial Electronics</i> , 69(9), 22 September 2021, pp 9155-9164, doi: <a href="https://doi.org/10.1109/TIE.2021.3113016">https://doi.org/10.1109/TIE.2021.3113016</a> .   |
|   | #LONG Zhihe, #LI Pengyu, CHEN Jun, CHUNG Shu Hung Henry, YANG Zhengbao, "Self-Powered Single-Inductor Rectifier-Less SSHI Array Interface with the MPPT Technique for Piezoelectric Energy Harvesting", <i>IEEE Transactions on Industrial Electronics</i> , 69(10), 06 January 2022, pp 10172-10181, doi: <a href="https://doi.org/10.1109/TIE.2021.3139175">https://doi.org/10.1109/TIE.2021.3139175</a> .   |
|   | GAO Chuanqiang, #LONG Zhihe, ZHONG Tianyan, LIANG Shan, XING Lili, "A self-powered intelligent glove for real-time human-machine gesture interaction based on piezoelectric effect of T-ZnO/PVDF film", <i>Journal Physics D: Applied Physics</i> , 55(19), 16 February 2022, doi: <a href="https://doi.org/10.1088/1361-6463/ac5192">https://doi.org/10.1088/1361-6463/ac5192</a> .   |
|   | LIU Weijie, #LONG Zhihe, YANG Guangyou, XING Lili, "A Self-Powered Wearable Motion Sensor for Monitoring Volleyball Skill and Building Big Sports Data", <i>Biosensors</i> , 12(2), 24 January 2022, doi: <a href="https://doi.org/10.3390/bios12020060">https://doi.org/10.3390/bios12020060</a> .  |
|   | LIN Yuxing, #LONG Zhihe, LIANG Shan, ZHONG Tianyan, XING Lili, "A wearable exhaling-oxygen-sensing mask based on piezoelectric/gas-sensing coupling effect for real-time monitoring and uploading lung disease information", <i>Journal Physics D: Applied Physics</i> , 55(22), 03 March 2022, doi: <a href="https://doi.org/10.1088/1361-6463/ac570b">https://doi.org/10.1088/1361-6463/ac570b</a> .   |
|   | ZHOU Liguo, #LONG Zhihe, FENG Quanyuan, JIN Qiuyan, LI Yongwei, "Channel-Continuous Triplexer With Multiple Transmission Zeros Based on Cascaded High-Pass and Low-Pass Filters", <i>IEEE Microwave and Wireless Components Letters</i> , 32(5), 20 January 2022, pp 395-398, doi: <a href="https://doi.org/10.1109/LMWC.2022.3140210">https://doi.org/10.1109/LMWC.2022.3140210</a> .   |
|   | #HONG Ying, #WANG Biao, #LONG Zhihe, #ZHANG Zhuomin, #PAN Qiqi, #LIU Shiyuan, LUO Xiaowei, YANG Zhengbao, "Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability", <i>Advanced Functional Materials</i> , 31(42), 24 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104737">https://doi.org/10.1002/adfm.202104737</a> .  |
| XIANG Wang, XIE Yan, HAN Yechao, #LONG Zhihe, ZHANG Wanglinhan, ZHONG Tianyan, LIANG Shan, XING Lili, XUE Xinyu, ZHAN Yang, "A self-powered wearable brain-machine- |  |

Section A: Publications of PhD Students

|                    |   |
|--------------------|---|
|                    | interface system for ceasing action", <i>Nanoscale</i> , 14(12), 01 March 2022, pp 4671-4678, doi: <a href="https://doi.org/10.1039/d1nr08168c">https://doi.org/10.1039/d1nr08168c</a> .  |
|                    | #WANG Biao, #LONG Zhihe, #HONG Ying, #PAN Qiqi, #LIN Weikang, YANG Zhengbao, "Woodpecker-mimic two-layer band energy harvester with a piezoelectric array for powering wrist-worn wearables", <i>Nano Energy</i> , 89(Pt. A), 30 July 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106385">https://doi.org/10.1016/j.nanoen.2021.106385</a> .  |
| <b>LU Anliang</b>  | YANG Ganting, HAN Yifan, #LU Anliang, GUO Qiang, "Enhanced damping capacity of nanolaminated graphene (reduced graphene oxide)/Al-Mg-Si composite", <i>Composites Part A: Applied Science and Manufacturing</i> , 156, 15 February 2022, doi: <a href="https://doi.org/10.1016/j.compositesa.2022.106887">https://doi.org/10.1016/j.compositesa.2022.106887</a> .                                       |
|                    | DANG Chaoqun, #LU Anliang, #WANG Heyi, ZHANG Hongti, LU Yang, "Diamond semiconductor and elastic strain engineering", <i>Journal of Semiconductors</i> , 43(2), February 2022, doi: <a href="https://doi.org/10.1088/1674-4926/43/2/021801">https://doi.org/10.1088/1674-4926/43/2/021801</a> .   |
| <b>MA Shihua</b>   | #HUANG Shasha, #ZHANG Jun, #XIONG Yaoxu, #MA Shihua, #XU Biao, ZHAO Shijun, "Effects of local chemical ordering on defect evolution in NiFe concentrated solid solution alloy", <i>Journal of Nuclear Materials</i> , 568, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.jnucmat.2022.153877">https://doi.org/10.1016/j.jnucmat.2022.153877</a> .   |
|                    | #MA Shihua, #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #SHAO Wei, ZHAO Shijun, "Chemical short-range ordering regulated dislocation cross slip in high-entropy alloys", <i>Journal of Alloys and Compounds</i> , 911, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165144">https://doi.org/10.1016/j.jallcom.2022.165144</a> .  |
|                    | #DENG Wei, #MA Shihua, LI Weimin, LIU Huaqiang, ZHAO Jiyun, "A molecular dynamics investigation of boiling heat transfer over wettability thermo-responsive surface", <i>International Journal of Heat and Mass Transfer</i> , 191, 06 April 2022, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2022.122856">https://doi.org/10.1016/j.ijheatmasstransfer.2022.122856</a> .               |
|                    | #XU Biao, #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #HUANG Shasha, KAI Ji-jung, ZHAO Shijun, "Revealing the crucial role of rough energy landscape on self-diffusion in high-entropy alloys based on machine learning and kinetic Monte Carlo", <i>Acta Materialia</i> , 234, 21 May 2022, doi: <a href="https://doi.org/10.1016/j.actamat.2022.118051">https://doi.org/10.1016/j.actamat.2022.118051</a> . |
|                    | #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #MA Shihua, WANG Zhe, WU Zhenggang, ZHAO Shijun, "Design high-entropy carbide ceramics from machine learning", <i>npj Computational Materials</i> , 8(1), 14 January 2022, doi: <a href="https://doi.org/10.1038/s41524-021-00678-3">https://doi.org/10.1038/s41524-021-00678-3</a> .   |
|                    | #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #XU Biao, ZHAO Shijun, "Elemental partitions and deformation mechanisms of L1 <sub>2</sub> -type multicomponent intermetallics", <i>Acta Materialia</i> , 219, 12 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117238">https://doi.org/10.1016/j.actamat.2021.117238</a> .   |
|                    | ZHAO Shijun, #XIONG Yaoxu, #MA Shihua, #ZHANG Jun, #XU Biao, KAI Ji-jung, "Defect accumulation and evolution in refractory multi-principal element alloys", <i>Acta Materialia</i> , 219, 13 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117233">https://doi.org/10.1016/j.actamat.2021.117233</a> .  |
| <b>MAO Zhengyi</b> | #HE Yunhu, CHEN Zhou, #KONG Shangcheng, #MAO Zhengyi, #YANG Chen, #WANG Wanying, #WAN Lei, LIU Guo, #YIN Jianan, CHAN Chi Hou, LU Jian, "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i> , 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a> .                                  |
|                    | CHEN Zhou, #KONG Shangcheng, #HE Yunhu, YI Shenghui, LIU Guo, #MAO Zhengyi, #HUO Mengke, CHAN Chi Hou, LU Jian, "Soft, Bistable Actuators for Reconfigurable 3D Electronics", <i>ACS Applied Materials &amp; Interfaces</i> , 13(35), 24 August 2021, pp 41968-41977, doi: <a href="https://doi.org/10.1021/acsami.1c08722">https://doi.org/10.1021/acsami.1c08722</a> .                                |
|                    | WANG Hao, BAO Yan, #MAO Zhengyi, #PAN Jie, BIAN Haidong, XU Zhengtao, LU Jian, LI Yangyang, "Supervariate Ceramics: Gelatinous and Monolithic Ceramics Fabricated under Ambient Conditions", <i>Advanced Engineering Materials</i> , 23(12), 06 September 2021, doi: <a href="https://doi.org/10.1002/adem.202100866">https://doi.org/10.1002/adem.202100866</a> .                                      |
|                    | #MAO Zhengyi, #HUO Mengke, LYU Fucong, #ZHOU Yongsen, BU Yu, #WAN Lei, PAN Lulu, #PAN Jie, LIU Hui, LU Jian, "Nacre-liked material with tough and post-tunable mechanical properties", <i>Journal of Materials Science and Technology</i> , 114, 15 January 2022, pp 172-179, doi: <a href="https://doi.org/10.1016/j.jmst.2021.11.018">https://doi.org/10.1016/j.jmst.2021.11.018</a> .                |

Section A: Publications of PhD Students

|                    |   |
|--------------------|---|
| <b>MIAO Jiaqi</b>  | SUN Siqi, YANG Jie, CHEN Yun-Hsuan, #MIAO Jiaqi, SAWAN Mohamad, "EEG Signals Based Internet Addiction Diagnosis Using Convolutional Neural Networks", <i>Applied Sciences (Switzerland)</i> , 12(13), 21 June 2022, doi: <a href="https://doi.org/10.3390/app12136297">https://doi.org/10.3390/app12136297</a> .  |
|                    | #TAN Rong, #YANG Xiong, LU Haojian, #YANG Liu, #ZHANG Tieshan, #MIAO Jiaqi, #FENG Yu, SHEN Yajing, "Nanofiber-based biodegradable millirobot with controllable anchoring and adaptive stepwise release functions", <i>Matter</i> , 5(4), 25 February 2022, pp 1277-1295, doi: <a href="https://doi.org/10.1016/j.matt.2022.01.023">https://doi.org/10.1016/j.matt.2022.01.023</a> .   |
|                    | #MIAO Jiaqi, #ZHANG Tieshan, #LI Gen, SHANG Wanfeng, SHEN Yajing, "Magnetic Artificial Cilia Carpets for Transport, Mixing, and Directional Diffusion", <i>Advanced Engineering Materials</i> , 24(7), 24 November 2021, doi: <a href="https://doi.org/10.1002/adem.202101399">https://doi.org/10.1002/adem.202101399</a> .   |
|                    | #GUO Dong, #LI Gen, #MIAO Jiaqi, SHEN Yajing, "A smartphone-based calibration-free portable urinalysis device", <i>Journal of Central South University</i> , 28(12), December 2021, pp 3829-3837, doi: <a href="https://doi.org/10.1007/s11771-021-4883-7">https://doi.org/10.1007/s11771-021-4883-7</a> .  |
| <b>MO Jiaying</b>  | ZHANG Chao, ZHENG Huanxi, SUN Jing, #ZHOU Yongsen, XU Wanghui, #DAI Yuhang, #MO Jiaying, WANG Zuankai, "3D Printed, Solid-State Conductive Ionoelastomer as a Generic Building Block for Tactile Applications", <i>Advanced Materials</i> , 34(2), 03 November 2021, doi: <a href="https://doi.org/10.1002/adma.202105996">https://doi.org/10.1002/adma.202105996</a> .   |
|                    | #MO Jiaying, #DAI Yuhang, ZHANG Chao, #ZHOU Yongsen, LI Wanbo, #SONG Yuxin, #WU Chenyang, WANG Zuankai, "Design of ultra-stretchable, highly adhesive and self-healable hydrogels via tannic acid-enabled dynamic interactions", <i>Materials Horizons</i> , 8(12), 07 October 2021, pp 3409–3416, doi: <a href="https://doi.org/10.1039/d1mh01324f">https://doi.org/10.1039/d1mh01324f</a> .   |
| <b>NI Song</b>     | LIU Maolong, #NI Song, WANG Xiaowen, LIU Limin, GU Hanyang, "Experimental study on the natural circulation behavior of a full-scale PWR fuel assembly", <i>Annals of Nuclear Energy</i> , 174, 13 May 2022, doi: <a href="https://doi.org/10.1016/j.anucene.2022.109172">https://doi.org/10.1016/j.anucene.2022.109172</a> .  |
|                    | #KHAN Shahid Ali, EZE Chika, #LAU Kwun Ting, ALI Bagh, AHMAD Shakeel, #NI Song, ZHAO Jiyun, "Study on the novel suppression of heat transfer deterioration of supercritical water flowing in vertical tube through the suspension of alumina nanoparticles", <i>International Communications in Heat and Mass Transfer</i> , 132, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105893">https://doi.org/10.1016/j.icheatmasstransfer.2022.105893</a> . |
|                    | LIU Maolong, WANG Xiaowen, #NI Song, LIU Limin, GU Hanyang, "Development of friction factor correlations for hexagonal and square bundles with rough rods based on CFD", <i>Annals of Nuclear Energy</i> , 174, 29 April 2022, doi: <a href="https://doi.org/10.1016/j.anucene.2022.109163">https://doi.org/10.1016/j.anucene.2022.109163</a> .   |
|                    | LIU Maolong, #NI Song, WANG Xiaowen, LIU Limin, GU Hanyang, "Development of analytical models for the natural circulation behavior of a full-scale PWR fuel assembly", <i>Annals of Nuclear Energy</i> , 174, 13 May 2022, doi: <a href="https://doi.org/10.1016/j.anucene.2022.109166">https://doi.org/10.1016/j.anucene.2022.109166</a> .   |
| <b>OUYANG Shuo</b> | #OUYANG Shuo, XIONG Zhenqin, ZHAO Jiyun, LI Zhen, "Droplet impact on a concave wall in a rotating gas flow field", <i>International Communications in Heat and Mass Transfer</i> , 135, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.106131">https://doi.org/10.1016/j.icheatmasstransfer.2022.106131</a> .   |
|                    | #OUYANG Shuo, XIONG Zhenqin, ZHAO Jiyun, LI Zhen, "Separator performance modeling and analysis using artificial neural network and response surface method", <i>Annals of Nuclear Energy</i> , 174, 26 April 2022, doi: <a href="https://doi.org/10.1016/j.anucene.2022.109139">https://doi.org/10.1016/j.anucene.2022.109139</a> .   |
|                    | #OUYANG Shuo, XIONG Zhenqin, ZHAO Jiyun, KANG Ruiqi, "Separation efficiency theoretical model of swirl-vane separator based on bidirectional vortex", <i>Annals of Nuclear Energy</i> , 170, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.anucene.2022.108984">https://doi.org/10.1016/j.anucene.2022.108984</a> .   |
| <b>PAN Qiqi</b>    | #WANG Biao, #HONG Ying, #LONG Zhihe, #PAN Qiqi, #LI Pengyu, YAO Xi, YANG Zhengbao, "Characterization of Wrist Motions and Bionic Energy Harvesting for Wrist Wearables", <i>IEEE Internet of Things Journal</i> , 03 June 2022, doi: <a href="https://doi.org/10.1109/JIOT.2022.3178719">https://doi.org/10.1109/JIOT.2022.3178719</a> .  |
|                    | #LONG Zhihe, #PAN Qiqi, #LI Pengyu, CHUNG Shu Hung Henry, YANG Zhengbao, "Direct Adaptive SSDV Circuit for Piezoelectric Shunt Damping", <i>IEEE Transactions on Industrial Electronics</i> , 15 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3179565">https://doi.org/10.1109/TIE.2022.3179565</a> .  |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | <p>#ZHANG Zhuomin, #LIU Shiyuan, #PAN Qiqi, #HONG Ying, #SHAN Yao, #PENG Zehua, #XU Xiaote, LIU Bingren, CHAI Yu, YANG Zhengbao, "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i>, 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a>.</p>  |
|                     | <p>#PAN Qiqi, #WANG Biao, ZHANG Lingling, LI Zhongjie, YANG Zhengbao, "Whisk-inspired Motion Converter for Ocean Wave Energy Harvesting", <i>IEEE/ASME Transactions on Mechatronics</i>, 27(3), 01 July 2021, pp 1808-1811, doi: <a href="https://doi.org/10.1109/TMECH.2021.3093939">https://doi.org/10.1109/TMECH.2021.3093939</a>.</p>   |
|                     | <p>#HONG Ying, #WANG Biao, #LONG Zhihe, #ZHANG Zhuomin, #PAN Qiqi, #LIU Shiyuan, LUO Xiaowei, YANG Zhengbao, "Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability", <i>Advanced Functional Materials</i>, 31(42), 24 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104737">https://doi.org/10.1002/adfm.202104737</a>.</p>  |
|                     | <p>#WANG Biao, #LONG Zhihe, #HONG Ying, #PAN Qiqi, #LIN Weikang, YANG Zhengbao, "Woodpecker-mimic two-layer band energy harvester with a piezoelectric array for powering wrist-worn wearables", <i>Nano Energy</i>, 89(Pt. A), 30 July 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106385">https://doi.org/10.1016/j.nanoen.2021.106385</a>.</p>   |
| <b>PARK Minhyuk</b> | <p>#ZHANG Jingyang, #ZHOU Ziqing, #ZHANG Zhibo, #PARK Minhyuk, YU Qing, LI Z, MA J, WANG Anding, HUANG H G, SONG M., GUO Baisong, WANG Qing, YANG Yong, "Recent development of chemically complex metallic glasses: from accelerated compositional design, additive manufacturing to novel applications", <i>Materials Futures</i>, 1(1), 14 February 2022, doi: <a href="https://doi.org/10.1088/2752-5724/ac4558">https://doi.org/10.1088/2752-5724/ac4558</a>.</p>               |
|                     | <p>#WANG Tianyu, #ZHANG Zhibo, #PARK Minhyuk, YU Qing, YANG Yong, "Etching-Free Ultrafast Fabrication of Self-Rolled Metallic Nanosheets with Controllable Twisting", <i>Nano Letters</i>, 21(17), 19 August 2021, pp 7159-7165, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c01789">https://doi.org/10.1021/acs.nanolett.1c01789</a>.</p>  |
|                     | <p>YU Qing, #ZHANG Jingyang, LI Jia, #WANG Tianyu, #PARK Minhyuk, HE Quanfeng, #ZHANG Zhibo, LIANG Tao, DING Xue, LI Yangyang, WANG Qing, ZENG Qiaoshi, YANG Yong, "Strong, Ductile, and Tough Nanocrystal-Assembled Freestanding Gold Nanosheets", <i>Nano Letters</i>, 22(2), 14 January 2022, pp 822-829, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c04553">https://doi.org/10.1021/acs.nanolett.1c04553</a>.</p>  |
|                     | <p>#PARK Minhyuk, #LI Dapeng, #WANG Tianyu, ZHOU Binbin, LI Yangyang, ZOU Deng, CHAN Paddy K. L., YANG Yong, "Elasto-Capillary Manipulation of Freestanding Inorganic Nanosheets: An Implication for Nano-Manufacturing of Low-Dimensional Structures", <i>Advanced Materials Interfaces</i>, 9(20), 12 June 2022, doi: <a href="https://doi.org/10.1002/admi.202200355">https://doi.org/10.1002/admi.202200355</a>.</p>  |
| <b>QIN Ning</b>     | <p>#QIN Ning, YU Sicen, JI Zongwei, WANG Yanfang, #GU Shuai, GAN Qingmeng, WANG Zhenyu, LI Zhiqiang, LUO Guangfu, ZHANG Kaili, LU Zhouguang, "Oxidation State as a Descriptor in Oxygen Reduction Electrocatalysis", <i>CCS Chemistry</i>, 10 February 2022, doi: <a href="https://doi.org/10.31635/ccschem.022.202101531">https://doi.org/10.31635/ccschem.022.202101531</a>.</p>  |
|                     | <p>#HUSSAIN Iftikhar, SAHOO Sumanta, MOHAPATRA Debananda, #AHMAD Muhammad, IQBAL Sarmad, JAVED Muhammad Sufyan, #GU Shuai, #QIN Ning, LAMIEL Charmaine, ZHANG Kaili, "Recent progress in trimetallic/ternary-metal oxides nanostructures: Misinterpretation/misconception of electrochemical data and devices", <i>Applied Materials Today</i>, 26, 08 December 2021, doi: <a href="https://doi.org/10.1016/j.apmt.2021.101297">https://doi.org/10.1016/j.apmt.2021.101297</a>.</p> |
|                     | <p>GAN Qingmeng, #QIN Ning, #GU Shuai, WANG Zhenyu, LI Zhiqiang, LIAO Kemeng, ZHANG Kaili, LU Li, XU Zhenghe, LU Zhouguang, "Extra Sodiation Sites in Hard Carbon for High Performance Sodium Ion Batteries", <i>Small Methods</i>, 5(9), 26 July 2021, doi: <a href="https://doi.org/10.1002/smt.202100580">https://doi.org/10.1002/smt.202100580</a>.</p>   |
|                     | <p>WU Sisi, #QIN Ning, ZHANG Hang, WEI Chuanwan, WANG Zhiqiang, LUO Wen, LI Yingzhi, WANG Haiou, ZHANG Kaili, WANG Qing, LU Zhouguang, "Revealing the catalytic pathway of a quinone-mediated oxygen reduction reaction in aprotic Li-O<sub>2</sub> batteries", <i>Chemical Communications</i>, 15 December 2021, doi: <a href="https://doi.org/10.1039/d1cc05538k">https://doi.org/10.1039/d1cc05538k</a>.</p>   |
|                     | <p>#GU Shuai, #CHEN Yatu, HAO Rui, #ZHOU Jun, #HUSSAIN Iftikhar, #QIN Ning, LI Muqing, CHEN Jingjing, WANG Zhiqiang, ZHENG Wei, GAN Qingmeng, LI Zhiqiang, GUO Hao, LI</p>  |



## Section A: Publications of PhD Students

|                            |  |
|----------------------------|--|
|                            | Yingzhi, <u>ZHANG Kaili</u> , LU Zhouguang, "Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries", <i>Chemical Communications</i> , 57(63), 07 July 2021, pp 7810-7813, doi: <a href="https://doi.org/10.1039/d1cc02426d">https://doi.org/10.1039/d1cc02426d</a> .  |
|                            | # <u>GU Shuai</u> , <u>MA Xiaoxia</u> , CHEN Jingjing, HAO Rui, WANG Zhiqiang, # <u>QIN Ning</u> , ZHENG Wei, GAN Qingmeng, LUO Wen, LI Muqing, LI Zhiqiang, LIAO Kemeng, GUO Hao, LIU Guiyu, <u>ZHANG Kaili</u> , LU Zhouguang, "Regulating the radical intermediates by conjugated units in covalent organic frameworks for optimized lithium ion storage", <i>Journal of Energy Chemistry</i> , 69, 10 January 2022, pp 428-433, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.005">https://doi.org/10.1016/j.jechem.2022.01.005</a> . |
|                            | LIAO Kemeng, LI Zhiqiang, # <u>GU Shuai</u> , LI Yingzhi, KONG Long, # <u>QIN Ning</u> , HUANG He, WU Sisi, CHEN Jingjing, GAN Qingmeng, <u>ZHANG Kaili</u> , LU Zhonguang, "Coupling a Three-Dimensional Nanopillar and Robust Film to Guide Li-Ion Flux for Dendrite-Free Lithium Metal Anodes", <i>ACS Applied Materials and Interfaces</i> , 13(38), 14 September 2021, pp 45416-45425, doi: <a href="https://doi.org/10.1021/acsaami.1c10913">https://doi.org/10.1021/acsaami.1c10913</a> .   |
| <b>QIN Xuezhi</b>          | SONG Mingkai, ZHAO Hongwei, <u>WANG Ting</u> , WANG Shunbo, WAN Jie, # <u>QIN Xuezhi</u> , <u>WANG Zuankai</u> , "A new scaling number reveals droplet dynamics on vibratory surfaces", <i>Journal of Colloid and Interface Science</i> , 608(Part 3), 29 October 2021, pp 2414-2420, doi: <a href="https://doi.org/10.1016/j.jcis.2021.10.165">https://doi.org/10.1016/j.jcis.2021.10.165</a> .   |
| <b>SHAH Syed Waqar Ali</b> | # <u>LI Yuanjie</u> , <u>REN Shuai</u> , # <u>JIANG Xingchi</u> , # <u>SHAH Syed Waqar Ali</u> , <u>PAN Chin</u> , "Onset of flow instability during subcooled flow boiling of seawater in a vertical annulus", <i>Applied Thermal Engineering</i> , 201(A), 11 November 2021, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2021.117797">https://doi.org/10.1016/j.applthermaleng.2021.117797</a> .  |
|                            | # <u>JIANG Xingchi</u> , # <u>SHAH Syed Waqar Ali</u> , # <u>LIU Jian</u> , # <u>LI Yuanjie</u> , ZHANG Shiwei, <u>WANG Zuankai</u> , <u>PAN Chin</u> , "Design of micro-nano structures for counter flow diverging microchannel heat sink with extraordinarily high energy efficiency", <i>Applied Thermal Engineering</i> , 209, 26 February 2022, doi: <a href="https://doi.org/10.1016/j.applthermaleng.2022.118229">https://doi.org/10.1016/j.applthermaleng.2022.118229</a> .  |
| <b>SHAN Yao</b>            | # <u>SHAN Yao</u> , # <u>LIU Shiyuan</u> , # <u>WANG Biao</u> , # <u>HONG Ying</u> , ZHANG Chao, <u>LIM C W</u> , ZHANG Guangzu, <u>YANG Zhengbao</u> , "A gravity-driven sintering method to fabricate geometrically complex compact piezoceramics", <i>Nature Communications</i> , 12, 18 October 2021, doi: <a href="https://doi.org/10.1038/s41467-021-26373-x">https://doi.org/10.1038/s41467-021-26373-x</a> .   |
|                            | # <u>ZHANG Zhuomin</u> , # <u>LIU Shiyuan</u> , # <u>PAN Qiqi</u> , # <u>HONG Ying</u> , # <u>SHAN Yao</u> , # <u>PENG Zehua</u> , # <u>XU Xiaote</u> , LIU Bingren, <u>CHAI Yu</u> , <u>YANG Zhengbao</u> , "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i> , 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a> .   |
|                            | # <u>LIU Shiyuan</u> , # <u>SHAN Yao</u> , # <u>HONG Ying</u> , <u>JIN Yuankai</u> , # <u>LIN Weikang</u> , # <u>ZHANG Zhuomin</u> , # <u>XU Xiaote</u> , <u>WANG Zuankai</u> , <u>YANG Zhengbao</u> , "3D Conformal Fabrication of Piezoceramic Films", <i>Advanced Science</i> , 28 April 2022, doi: <a href="https://doi.org/10.1002/advs.202106030">https://doi.org/10.1002/advs.202106030</a> .   |
| <b>SHI Jihong</b>          | # <u>AO Kelong</u> , # <u>SHI Jihong</u> , <u>ZHANG Xiangyang</u> , <u>DAOUD Walid</u> , "Tuning oxygen vacancies in spinel nanosheets for binder-free oxygen cathodes with superior catalytic activity in zinc-air batteries", <i>Journal of Power Sources</i> , 521, 22 December 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230918">https://doi.org/10.1016/j.jpowsour.2021.230918</a> .  |
| <b>SHI Yu</b>              | # <u>SHI Yu</u> , WEI Zhongbao, LIU Huaqiang, <u>ZHAO Jiyun</u> , "Dynamic modeling of long-term operations of vanadium/air redox flow battery with different membranes", <i>Journal of Energy Storage</i> , 50, 17 February 2022, doi: <a href="https://doi.org/10.1016/j.est.2022.104171">https://doi.org/10.1016/j.est.2022.104171</a> .  |
| <b>SHUANG Shuo</b>         | # <u>SHUANG Shuo</u> , <u>YU Qing</u> , # <u>GAO Xiang</u> , <u>HE Quanfeng</u> , # <u>ZHANG Jingyang</u> , <u>SHI S. Q.</u> , <u>YANG Yong</u> , "Tuning the microstructure for superb corrosion resistance in eutectic high entropy alloy", <i>Journal of Materials Science and Technology</i> , 109, 07 November 2021, pp 197-208, doi: <a href="https://doi.org/10.1016/j.jmst.2021.08.069">https://doi.org/10.1016/j.jmst.2021.08.069</a> .   |
|                            | # <u>HUSSAIN Iftikhar</u> , LAMIEL Charmaine, # <u>AHMAD Muhammad</u> , # <u>CHEN Yatu</u> , # <u>SHUANG Shuo</u> , JAVED Muhammad Sufyan, <u>YANG Yong</u> , <u>ZHANG Kaili</u> , "High entropy alloys as electrode material for supercapacitors: A review", <i>Journal of Energy Storage</i> , 44(Part A), 16 October 2021, doi: <a href="https://doi.org/10.1016/j.est.2021.103405">https://doi.org/10.1016/j.est.2021.103405</a> .   |
| <b>SONG Yuxin</b>          | # <u>YAN Xiantong</u> , <u>XU Wanghuai</u> , <u>DENG Yajun</u> , <u>ZHANG Chao</u> , <u>ZHENG Huanxi</u> , # <u>YANG Siyan</u> , # <u>SONG Yuxin</u> , # <u>LI Pengyu</u> , # <u>XU Xiaote</u> , HU Yue, ZHANG Luwen, <u>YANG Zhengbao</u> , <u>WANG</u>   |

Section A: Publications of PhD Students

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|----------------------------|---|
|                            | <p><u>Steven</u>, <u>WANG Zuankai</u>, "Bubble energy generator", <i>Science Advances</i>, 8(25), 24 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abo7698">https://doi.org/10.1126/sciadv.abo7698</a>.</p> <p>#<u>MO Jiaying</u>, #<u>DAI Yuhang</u>, #<u>ZHANG Chao</u>, #<u>ZHOU Yongsen</u>, #<u>LI Wanbo</u>, #<u>SONG Yuxin</u>, #<u>WU Chenyang</u>, #<u>WANG Zuankai</u>, "Design of ultra-stretchable, highly adhesive and self-healable hydrogels via tannic acid-enabled dynamic interactions", <i>Materials Horizons</i>, 8(12), 07 October 2021, pp 3409–3416, doi: <a href="https://doi.org/10.1039/d1mh01324f">https://doi.org/10.1039/d1mh01324f</a>.</p> <p>#<u>WANG Lili</u>, #<u>SONG Yuxin</u>, #<u>XU Wanghuai</u>, #<u>LI Wanbo</u>, #<u>JIN Yuankai</u>, #<u>GAO Shouwei</u>, #<u>YANG Siyan</u>, #<u>WU Chenyang</u>, #<u>WANG Steven</u>, #<u>WANG Zuankai</u>, "Harvesting energy from high-frequency impinging water droplets by a droplet-based electricity generator", <i>EcoMat</i>, 3(4), August 2021, doi: <a href="https://doi.org/10.1002/eom2.12116">https://doi.org/10.1002/eom2.12116</a>.</p>   |
| <b>SUN Hui</b>             | <p>ZHAO Yuliang, LOU Jiazhi, ZHANG Hongyu, #<u>SUN Hui</u>, ZHANG Menglin, WANG Shuyu, SHA Xiaopeng, ZHAN Zhikun, WANG Ying, MA Cuihua, #<u>LI Wen Jung</u>, "Measurement methods of single cell drug response", <i>Talanta</i>, 239, 03 November 2021, doi: <a href="https://doi.org/10.1016/j.talanta.2021.123035">https://doi.org/10.1016/j.talanta.2021.123035</a>.</p> <p>ZHAO Yuliang, GU Lijia, #<u>SUN Hui</u>, SHA Xiaopeng, #<u>LI Wen Jung</u>, "Physical Cytometry: Detecting Mass-Related Properties of Single Cells", <i>ACS Sensors</i>, 7(1), 03 January 2022, pp 21-36, doi: <a href="https://doi.org/10.1021/acssensors.1c01787">https://doi.org/10.1021/acssensors.1c01787</a>.</p> <p>LI Wenchao, LU Wenqian, SHA Xiaopeng, XING Hualin, LOU Jiazhi, #<u>SUN Hui</u>, ZHAO Yuliang, "Wearable Gait Recognition Systems Based on MEMS Pressure and Inertial Sensors: A Review", <i>IEEE Sensors Journal</i>, 22(2), 30 November 2021, pp 1092-1104, doi: <a href="https://doi.org/10.1109/JSEN.2021.3131582">https://doi.org/10.1109/JSEN.2021.3131582</a>.</p>  |
| <b>SUN Yajun</b>           | <p>#<u>DENG Wei</u>, #<u>SUN Yajun</u>, #<u>YAO Xiaoxue</u>, #<u>SUBRAMANIAN SENTHILKANNAN Karpagam</u>, #<u>LING Chen</u>, #<u>WANG Hongbo</u>, #<u>CHOPRA Shauhrat Singh</u>, #<u>XU Ben Bin</u>, #<u>WANG Jie-Xin</u>, #<u>CHEN Jian-Feng</u>, #<u>WANG Dan</u>, #<u>AMANCIO Honeyfer</u>, #<u>PRAMANA Stevin</u>, #<u>YE Ruquan</u>, #<u>WANG Steven</u>, "Masks for COVID-19", <i>Advanced Science</i>, 9(3), 26 November 2021, doi: <a href="https://doi.org/10.1002/adv.202102189">https://doi.org/10.1002/adv.202102189</a>.</p>  |
| <b>SURJADI James Utama</b> | <p>#<u>KARTHIKEYAN Vaithinathan</u>, #<u>SAW Lin Oo</u>, #<u>SURJADI James Utama</u>, #<u>LI Xiaocui</u>, #<u>VASKURI Chandra Sekhara Theja</u>, #<u>KANNAN Venkataramanan</u>, #<u>LAU Siu Chuen</u>, #<u>LU Yang</u>, #<u>LAM Kwok-Ho</u>, #<u>VELLAISAMY Arul Lenus Roy</u>, "Defect Engineering Boosted Ultrahigh Thermoelectric Power Conversion Efficiency in Polycrystalline SnSe", <i>ACS Applied Materials and Interfaces</i>, 13(49), 01 December 2021, pp 58701–58711, doi: <a href="https://doi.org/10.1021/acsaami.1c18194">https://doi.org/10.1021/acsaami.1c18194</a>.</p> <p>#<u>SURJADI James Utama</u>, #<u>LU Yang</u>, "Design criteria for tough metamaterials", <i>Nature Materials</i>, 21(3), 07 February 2022, pp 272-274, doi: <a href="https://doi.org/10.1038/s41563-022-01193-6">https://doi.org/10.1038/s41563-022-01193-6</a>.</p>   |
| <b>WAN Lei</b>             | <p>#<u>HE Yunhu</u>, #<u>CHEN Zhou</u>, #<u>KONG Shangcheng</u>, #<u>MAO Zhengyi</u>, #<u>YANG Chen</u>, #<u>WANG Wanying</u>, #<u>WAN Lei</u>, #<u>LIU Guo</u>, #<u>YIN Jianan</u>, #<u>CHAN Chi Hou</u>, #<u>LU Jian</u>, "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i>, 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a>.</p> <p>#<u>MAO Zhengyi</u>, #<u>HUO Mengke</u>, #<u>LYU Fucong</u>, #<u>ZHOU Yongsen</u>, #<u>BU Yu</u>, #<u>WAN Lei</u>, #<u>PAN Lulu</u>, #<u>PAN Jie</u>, #<u>LIU Hui</u>, #<u>LU Jian</u>, "Nacre-like material with tough and post-tunable mechanical properties", <i>Journal of Materials Science and Technology</i>, 114, 15 January 2022, pp 172-179, doi: <a href="https://doi.org/10.1016/j.jmst.2021.11.018">https://doi.org/10.1016/j.jmst.2021.11.018</a>.</p>  |
| <b>WANG Biao</b>           | <p>#<u>WANG Biao</u>, #<u>HONG Ying</u>, #<u>LONG Zhihe</u>, #<u>PAN Qiqi</u>, #<u>LI Pengyu</u>, #<u>YAO Xi</u>, #<u>YANG Zhengbao</u>, "Characterization of Wrist Motions and Bionic Energy Harvesting for Wrist Wearables", <i>IEEE Internet of Things Journal</i>, 03 June 2022, doi: <a href="https://doi.org/10.1109/JIOT.2022.3178719">https://doi.org/10.1109/JIOT.2022.3178719</a>.</p> <p>#<u>SHAN Yao</u>, #<u>LIU Shiyuan</u>, #<u>WANG Biao</u>, #<u>HONG Ying</u>, #<u>ZHANG Chao</u>, #<u>LIM C W</u>, #<u>ZHANG Guangzu</u>, #<u>YANG Zhengbao</u>, "A gravity-driven sintering method to fabricate geometrically complex compact piezoceramics", <i>Nature Communications</i>, 12, 18 October 2021, doi: <a href="https://doi.org/10.1038/s41467-021-26373-x">https://doi.org/10.1038/s41467-021-26373-x</a>.</p> <p>#<u>LONG Zhihe</u>, #<u>LI Pengyu</u>, #<u>WANG Xiudeng</u>, #<u>WANG Biao</u>, #<u>CHUNG Shu Hung Henry</u>, #<u>YANG Zhengbao</u>, "A Self-Powered P-SSHI Array Interface for Piezoelectric Energy Harvesters with Arbitrary Phase Difference", <i>IEEE Transactions on Industrial Electronics</i>, 69(9), 22 September 2021, pp 9155-9164, doi: <a href="https://doi.org/10.1109/TIE.2021.3113016">https://doi.org/10.1109/TIE.2021.3113016</a>.</p> |

Section A: Publications of PhD Students

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|---------------------|---|
|                     | <p>#PAN Qiqi, #WANG Biao, ZHANG Lingling, LI Zhongjie, <u>YANG Zhengbao</u>, "Whisk-inspired Motion Converter for Ocean Wave Energy Harvesting", <i>IEEE/ASME Transactions on Mechatronics</i>, 27(3), 01 July 2021, pp 1808-1811, doi: <a href="https://doi.org/10.1109/TMECH.2021.3093939">https://doi.org/10.1109/TMECH.2021.3093939</a>.</p>  |
|                     | <p>#HONG Ying, #WANG Biao, #LONG Zhihe, #ZHANG Zhuomin, #PAN Qiqi, #LIU Shiyuan, <u>LUO Xiaowei</u>, <u>YANG Zhengbao</u>, "Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability", <i>Advanced Functional Materials</i>, 31(42), 24 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104737">https://doi.org/10.1002/adfm.202104737</a>.</p>  |
|                     | <p>#HONG Ying, <u>JIN Lihan</u>, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, <u>LEE Youngjin</u>, <u>KHOO Bee Luan</u>, <u>YANG Zhengbao</u>, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i>, 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a>.</p>   |
|                     | <p>#WANG Biao, #LONG Zhihe, #HONG Ying, #PAN Qiqi, #LIN Weikang, <u>YANG Zhengbao</u>, "Woodpecker-mimic two-layer band energy harvester with a piezoelectric array for powering wrist-worn wearables", <i>Nano Energy</i>, 89(Pt. A), 30 July 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106385">https://doi.org/10.1016/j.nanoen.2021.106385</a>.</p>  |
| <b>WANG Hang</b>    | <p>#GAO Xiang, #WANG Hang, #ZHAO Weijiang, <u>YANG Yong</u>, "Fabrication of strong yet malleable bulk porous high entropy laves intermetallics via chemical immersion dealloying of eutectic high entropy alloys", <i>Scripta Materialia</i>, 219, 11 June 2022, doi: <a href="https://doi.org/10.1016/j.scriptamat.2022.114859">https://doi.org/10.1016/j.scriptamat.2022.114859</a>.</p>   |
|                     | <p>#WANG Hang, <u>HE Quanfeng</u>, <u>YANG Yong</u>, "High-entropy intermetallics: from alloy design to structural and functional properties", <i>Rare Metals</i>, 41(6), 22 February 2022, pp 1989–2001, doi: <a href="https://doi.org/10.1007/s12598-021-01926-7">https://doi.org/10.1007/s12598-021-01926-7</a>.</p>   |
|                     | <p>LI Jia, CHEN Yang, <u>HE Quanfeng</u>, XU Xiandong, #WANG Hang, JIANG Chao, LIU Bin, FANG Qihong, LIU Yong, <u>YANG Yong</u>, <u>LIAW Peter K.</u>, <u>LIU Chain Tsuan</u>, "Heterogeneous lattice strain strengthening in severely distorted crystalline solids", <i>Proceedings of the National Academy of Sciences of the United States of America</i>, 119(25), 13 June 2022, doi: <a href="https://doi.org/10.1073/pnas.2200607119">https://doi.org/10.1073/pnas.2200607119</a>.</p>  |
| <b>WANG Heyi</b>    | <p>#WANG Heyi, WU Hong, #LIN Weitong, ZHANG Bin, #LI Xiaocui, <u>ZHANG Yang</u>, <u>FAN Sufeng</u>, <u>DANG Chaoqun</u>, ZHU Yingxin, <u>ZHAO Shijun</u>, ZHOU Xiaoyuan, <u>LU Yang</u>, "Orientation-dependent large plasticity of single-crystalline gallium selenide", <i>Cell Reports Physical Science</i>, 3(4), 15 March 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2022.100816">https://doi.org/10.1016/j.xcrp.2022.100816</a>.</p>  |
|                     | <p><u>DANG Chaoqun</u>, #LU Anliang, #WANG Heyi, ZHANG Hongti, <u>LU Yang</u>, "Diamond semiconductor and elastic strain engineering", <i>Journal of Semiconductors</i>, 43(2), February 2022, doi: <a href="https://doi.org/10.1088/1674-4926/43/2/021801">https://doi.org/10.1088/1674-4926/43/2/021801</a>.</p>  |
| <b>WANG Hongbo</b>  | <p>#DENG Wei, #SUN Yajun, #YAO Xiaoxue, <u>SUBRAMANIAN SENTHILKANNAN Karpagam</u>, #LING Chen, #WANG Hongbo, <u>CHOPRA Shauhrat Singh</u>, XU Ben Bin, WANG Jie-Xin, CHEN Jian-Feng, WANG Dan, AMANCIO Honeyfer, PRAMANA Stevin, <u>YE Ruquan</u>, <u>WANG Steven</u>, "Masks for COVID-19", <i>Advanced Science</i>, 9(3), 26 November 2021, doi: <a href="https://doi.org/10.1002/advs.202102189">https://doi.org/10.1002/advs.202102189</a>.</p>   |
| <b>WANG Lili</b>    | <p>#WANG Lili, #SONG Yuxin, <u>XU Wanghuai</u>, <u>LI Wanbo</u>, <u>JIN Yuankai</u>, #GAO Shouwei, #YANG Siyan, #WU Chenyang, <u>WANG Steven</u>, <u>WANG Zuankai</u>, "Harvesting energy from high-frequency impinging water droplets by a droplet-based electricity generator", <i>EcoMat</i>, 3(4), August 2021, doi: <a href="https://doi.org/10.1002/eom2.12116">https://doi.org/10.1002/eom2.12116</a>.</p>   |
| <b>WANG Liqiang</b> | <p>#MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, <u>GUAN Zhiqiang</u>, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, <u>YUN Qinbai</u>, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, <u>ZHU Zonglong</u>, <u>YE Ruquan</u>, CHEN Ye, <u>LU Yang</u>, XI Shibo, HUANG Bolong, <u>LEE Chun Sing</u>, <u>FAN Zhanxi</u>, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p> |

Section A: Publications of PhD Students

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| <b>WANG Mingmei</b> | # <a href="#">LI Yuchao</a> , # <a href="#">WANG Mingmei</a> , <a href="#">ZHANG Chao</a> , WANG Chun-Chuan, <a href="#">XU Wanghuai</a> , # <a href="#">GAO Shouwei</a> , # <a href="#">ZHOU Yongsen</a> , WANG Chun-Ta, <a href="#">WANG Zuankai</a> , "A Fully Self-Powered Cholesteric Smart Window Actuated by Droplet-Based Electricity Generator", <i>Advanced Optical Materials</i> , 10(7), 11 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102274">https://doi.org/10.1002/adom.202102274</a> .  |
| <b>WANG Tianyu</b>  | # <a href="#">WANG Tianyu</a> , # <a href="#">ZHANG Zhibo</a> , # <a href="#">PARK Minhyuk</a> , <a href="#">YU Qing</a> , <a href="#">YANG Yong</a> , "Etching-Free Ultrafast Fabrication of Self-Rolled Metallic Nanosheets with Controllable Twisting", <i>Nano Letters</i> , 21(17), 19 August 2021, pp 7159-7165, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c01789">https://doi.org/10.1021/acs.nanolett.1c01789</a> .  |
|                     | <a href="#">YU Qing</a> , # <a href="#">ZHANG Jingyang</a> , <a href="#">LI Jia</a> , # <a href="#">WANG Tianyu</a> , # <a href="#">PARK Minhyuk</a> , <a href="#">HE Quanfeng</a> , # <a href="#">ZHANG Zhibo</a> , <a href="#">LIANG Tao</a> , <a href="#">DING Xue</a> , <a href="#">LI Yangyang</a> , <a href="#">WANG Qing</a> , <a href="#">ZENG Qiaoshi</a> , <a href="#">YANG Yong</a> , "Strong, Ductile, and Tough Nanocrystal-Assembled Freestanding Gold Nanosheets", <i>Nano Letters</i> , 22(2), 14 January 2022, pp 822-829, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c04553">https://doi.org/10.1021/acs.nanolett.1c04553</a> . |
|                     | # <a href="#">PARK Minhyuk</a> , # <a href="#">LI Dapeng</a> , # <a href="#">WANG Tianyu</a> , <a href="#">ZHOU Binbin</a> , <a href="#">LI Yangyang</a> , <a href="#">ZOU Deng</a> , <a href="#">CHAN Paddy K. L.</a> , <a href="#">YANG Yong</a> , "Elasto-Capillary Manipulation of Freestanding Inorganic Nanosheets: An Implication for Nano-Manufacturing of Low-Dimensional Structures", <i>Advanced Materials Interfaces</i> , 9(20), 12 June 2022, doi: <a href="https://doi.org/10.1002/admi.202200355">https://doi.org/10.1002/admi.202200355</a> .   |
| <b>WANG Wei</b>     | <a href="#">ZHANG Dacheng</a> , <a href="#">LI Xinru</a> , # <a href="#">WANG Wei</a> , <a href="#">ZHAO Zhengang</a> , "Internal Characterization-Based Prognostics for Micro-Direct-Methanol Fuel Cells under Dynamic Operating Conditions", <i>Sensors</i> , 22(11), 01 June 2022, doi: <a href="https://doi.org/10.3390/s22114217">https://doi.org/10.3390/s22114217</a> .   |
| <b>WANG Yilong</b>  | # <a href="#">WANG Yilong</a> , <a href="#">ZHAO Yang</a> , <a href="#">CHEN Chao</a> , <a href="#">CAO Dengqing</a> , <a href="#">YANG Zhengbao</a> , "Misalignment-induced bending-torsional coupling vibrations of doubly-clamped nonlinear piezoelectric energy harvesters", <i>Mechanical Systems and Signal Processing</i> , 169, 05 January 2022, doi: <a href="https://doi.org/10.1016/j.ymssp.2021.108776">https://doi.org/10.1016/j.ymssp.2021.108776</a> .  |
|                     | # <a href="#">XU Xiaote</a> , # <a href="#">WANG Yilong</a> , # <a href="#">LI Pengyu</a> , <a href="#">XU Wanghuai</a> , <a href="#">WEI Lei</a> , <a href="#">WANG Zuankai</a> , <a href="#">YANG Zhengbao</a> , "A leaf-mimic rain energy harvester by liquid-solid contact electrification and piezoelectricity", <i>Nano Energy</i> , 90, 27 September 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106573">https://doi.org/10.1016/j.nanoen.2021.106573</a> .   |
| <b>WANG Yuejiao</b> | <a href="#">LI Xuan</a> , <a href="#">WANG Weidong</a> , <a href="#">WU Lingjun</a> , <a href="#">ZHAO Haitao</a> , <a href="#">WANG Meng</a> , # <a href="#">WANG Yuejiao</a> , <a href="#">XU Hongcheng</a> , <a href="#">LIU Min</a> , <a href="#">GAO Libo</a> , "Wearable, self-cleaning, wireless integrated tactile sensory system with superior sensitivity", <i>Sensors and Actuators A: Physical</i> , 331, 18 August 2021, doi: <a href="https://doi.org/10.1016/j.sna.2021.113027">https://doi.org/10.1016/j.sna.2021.113027</a> .   |
| <b>WU Chenyang</b>  | # <a href="#">MO Jiaying</a> , # <a href="#">DAI Yuhang</a> , <a href="#">ZHANG Chao</a> , # <a href="#">ZHOU Yongsen</a> , <a href="#">LI Wanbo</a> , # <a href="#">SONG Yuxin</a> , # <a href="#">WU Chenyang</a> , <a href="#">WANG Zuankai</a> , "Design of ultra-stretchable, highly adhesive and self-healable hydrogels via tannic acid-enabled dynamic interactions", <i>Materials Horizons</i> , 8(12), 07 October 2021, pp 3409–3416, doi: <a href="https://doi.org/10.1039/d1mh01324f">https://doi.org/10.1039/d1mh01324f</a> .   |
|                     | # <a href="#">WANG Lili</a> , # <a href="#">SONG Yuxin</a> , <a href="#">XU Wanghuai</a> , <a href="#">LI Wanbo</a> , <a href="#">JIN Yuankai</a> , # <a href="#">GAO Shouwei</a> , # <a href="#">YANG Siyan</a> , # <a href="#">WU Chenyang</a> , <a href="#">WANG Steven</a> , <a href="#">WANG Zuankai</a> , "Harvesting energy from high-frequency impinging water droplets by a droplet-based electricity generator", <i>EcoMat</i> , 3(4), August 2021, doi: <a href="https://doi.org/10.1002/eom2.12116">https://doi.org/10.1002/eom2.12116</a> .   |
|                     | # <a href="#">YANG Siyan</a> , # <a href="#">WU Chenyang</a> , <a href="#">ZHAO Guanlei</a> , <a href="#">SUN Jing</a> , <a href="#">YAO Xi</a> , <a href="#">MA Xuehu</a> , <a href="#">WANG Zuankai</a> , "Condensation frosting and passive anti-frosting", <i>Cell Reports Physical Science</i> , 2(7), 01 July 2021, doi: <a href="https://doi.org/10.1016/j.xcrp.2021.100474">https://doi.org/10.1016/j.xcrp.2021.100474</a> .   |
| <b>WU Hao</b>       | # <a href="#">WU Hao</a> , <a href="#">REN Yukun</a> , # <a href="#">JIANG Tianyi</a> , <a href="#">WU Wenlong</a> , <a href="#">LU Yang</a> , <a href="#">JIANG Hongyuan</a> , "Fabrication of syntactic foam fillers via integrated on/off-chip microfluidic methods for optimized geopolymer composites", <i>Lab on a Chip</i> , 22(4), 21 January 2022, pp 836-847, doi: <a href="https://doi.org/10.1039/d1lc00901j">https://doi.org/10.1039/d1lc00901j</a> .   |
| <b>XIA Fan</b>      | # <a href="#">CAI Junjie</a> , # <a href="#">CHEN Jingtian</a> , # <a href="#">DENG Wei</a> , # <a href="#">XIA Fan</a> , <a href="#">ZHAO Jiyun</a> , "Towards efficient and sustaining condensation via hierarchical meshed surfaces: A 3D LBM study", <i>International Communications in Heat and Mass Transfer</i> , 132, 10 February 2022, doi: <a href="https://doi.org/10.1016/j.icheatmasstransfer.2022.105919">https://doi.org/10.1016/j.icheatmasstransfer.2022.105919</a> .   |
|                     | # <a href="#">CAI Junjie</a> , # <a href="#">CHEN Jingtian</a> , <a href="#">CHENG Haimei</a> , <a href="#">ZI Shuangfei</a> , <a href="#">XIAO Jinchao</a> , # <a href="#">XIA Fan</a> , <a href="#">ZHAO Jiyun</a> , "The effects of thermal stratification on airborne transport within the urban   |

## Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | roughness sublayer", <i>International Journal of Heat and Mass Transfer</i> , 184, 28 November 2021, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2021.122289">https://doi.org/10.1016/j.ijheatmasstransfer.2021.122289</a> .   |
| <b>XIAO Weicheng</b> | #ZHANG Jianyang, XIAO Bo, LI Q., CAO Boxuan, HOU Jinxiong, #LIU Shaofei, #ZHANG Jixun, #XIAO Weicheng, LUAN Junhua, ZHAO Y. L., LIU Chain Tsuan, YANG Tao, "Temperature-dependent microstructural evolutions and deformation mechanisms of (Ni <sub>2</sub> Co <sub>2</sub> FeCr) <sub>92</sub> Al <sub>4</sub> Nb <sub>4</sub> high-entropy alloys", <i>Journal of Alloys and Compounds</i> , 918, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165597">https://doi.org/10.1016/j.jallcom.2022.165597</a> . |
| <b>XIE Bochen</b>    | #XIE Bochen, #DENG Yongjian, SHAO Zhanpeng, LIU Hai, LI You Fu, "VMV-GCN: Volumetric Multi-View Based Graph CNN for Event Stream Classification", <i>IEEE Robotics and Automation Letters</i> , 7(2), 06 January 2022, pp 1976-1983, doi: <a href="https://doi.org/10.1109/LRA.2022.3140819">https://doi.org/10.1109/LRA.2022.3140819</a> .   |
| <b>XIE Xian</b>      | #XIE Xian, CHAN Chung Yim, DAOUD Walid, "NiMoO <sub>4</sub> nanorods with rich catalytic sites as a superb electrocatalyst for cerium-based flow batteries", <i>Journal of Materials Chemistry A</i> , 9(44), 13 October 2021, pp 24943-24954, doi: <a href="https://doi.org/10.1039/d1ta04584a">https://doi.org/10.1039/d1ta04584a</a> .   |
| <b>XIONG Yaoxu</b>   | #HUANG Shasha, #ZHANG Jun, #XIONG Yaoxu, #MA Shihua, #XU Biao, ZHAO Shijun, "Effects of local chemical ordering on defect evolution in NiFe concentrated solid solution alloy", <i>Journal of Nuclear Materials</i> , 568, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.jnucmat.2022.153877">https://doi.org/10.1016/j.jnucmat.2022.153877</a> .   |
|                      | #MA Shihua, #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #SHAO Wei, ZHAO Shijun, "Chemical short-range ordering regulated dislocation cross slip in high-entropy alloys", <i>Journal of Alloys and Compounds</i> , 911, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165144">https://doi.org/10.1016/j.jallcom.2022.165144</a> .  |
|                      | #XU Biao, #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #HUANG Shasha, KAI Ji-jung, ZHAO Shijun, "Revealing the crucial role of rough energy landscape on self-diffusion in high-entropy alloys based on machine learning and kinetic Monte Carlo", <i>Acta Materialia</i> , 234, 21 May 2022, doi: <a href="https://doi.org/10.1016/j.actamat.2022.118051">https://doi.org/10.1016/j.actamat.2022.118051</a> .   |
|                      | #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #MA Shihua, WANG Zhe, WU Zhenggang, ZHAO Shijun, "Design high-entropy carbide ceramics from machine learning", <i>npj Computational Materials</i> , 8(1), 14 January 2022, doi: <a href="https://doi.org/10.1038/s41524-021-00678-3">https://doi.org/10.1038/s41524-021-00678-3</a> .   |
|                      | #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #XU Biao, ZHAO Shijun, "Elemental partitions and deformation mechanisms of L1 <sub>2</sub> -type multicomponent intermetallics", <i>Acta Materialia</i> , 219, 12 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117238">https://doi.org/10.1016/j.actamat.2021.117238</a> .   |
|                      | ZHAO Shijun, #XIONG Yaoxu, #MA Shihua, #ZHANG Jun, #XU Biao, KAI Ji-jung, "Defect accumulation and evolution in refractory multi-principal element alloys", <i>Acta Materialia</i> , 219, 13 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117233">https://doi.org/10.1016/j.actamat.2021.117233</a> .  |
| <b>XU Biao</b>       | #HUANG Shasha, #ZHANG Jun, #XIONG Yaoxu, #MA Shihua, #XU Biao, ZHAO Shijun, "Effects of local chemical ordering on defect evolution in NiFe concentrated solid solution alloy", <i>Journal of Nuclear Materials</i> , 568, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.jnucmat.2022.153877">https://doi.org/10.1016/j.jnucmat.2022.153877</a> .   |
|                      | #MA Shihua, #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #SHAO Wei, ZHAO Shijun, "Chemical short-range ordering regulated dislocation cross slip in high-entropy alloys", <i>Journal of Alloys and Compounds</i> , 911, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165144">https://doi.org/10.1016/j.jallcom.2022.165144</a> .  |
|                      | #XU Biao, #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #HUANG Shasha, KAI Ji-jung, ZHAO Shijun, "Revealing the crucial role of rough energy landscape on self-diffusion in high-entropy alloys based on machine learning and kinetic Monte Carlo", <i>Acta Materialia</i> , 234, 21 May 2022, doi: <a href="https://doi.org/10.1016/j.actamat.2022.118051">https://doi.org/10.1016/j.actamat.2022.118051</a> .   |
|                      | #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #MA Shihua, WANG Zhe, WU Zhenggang, ZHAO Shijun, "Design high-entropy carbide ceramics from machine learning", <i>npj Computational Materials</i> , 8(1), 14 January 2022, doi: <a href="https://doi.org/10.1038/s41524-021-00678-3">https://doi.org/10.1038/s41524-021-00678-3</a> .   |
|                      | #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #XU Biao, ZHAO Shijun, "Elemental partitions and deformation mechanisms of L1 <sub>2</sub> -type multicomponent intermetallics", <i>Acta Materialia</i> , 219, 12 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117238">https://doi.org/10.1016/j.actamat.2021.117238</a> .   |

Section A: Publications of PhD Students

|              |   |
|--------------|---|
|              | ZHAO Shijun, #XIONG Yaoxu, #MA Shihua, #ZHANG Jun, #XU Biao, KAI Ji-jung, "Defect accumulation and evolution in refractory multi-principal element alloys", <i>Acta Materialia</i> , 219, 13 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117233">https://doi.org/10.1016/j.actamat.2021.117233</a> .  |
| XU Xiaote    | #YAN Xiantong, XU Wanghuai, DENG Yajun, ZHANG Chao, ZHENG Huanxi, #YANG Siyan, #SONG Yuxin, #LI Pengyu, #XU Xiaote, HU Yue, ZHANG Luwen, YANG Zhengbao, WANG Steven, WANG Zuankai, "Bubble energy generator", <i>Science Advances</i> , 8(25), 24 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abo7698">https://doi.org/10.1126/sciadv.abo7698</a> .   |
|              | #ZHANG Zhuomin, #LIU Shiyuan, #PAN Qiqi, #HONG Ying, #SHAN Yao, #PENG Zehua, #XU Xiaote, LIU Bingren, CHAI Yu, YANG Zhengbao, "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i> , 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a> .   |
|              | #XU Xiaote, #LI Pengyu, DING Yongtao, XU Wanghuai, #LIU Shiyuan, #ZHANG Zhuomin, WANG Zuankai, YANG Zhengbao, "Droplet energy harvesting panel", <i>Energy &amp; Environmental Science</i> , 15(7), 15 June 2022, pp 2916–2926, doi: <a href="https://doi.org/10.1039/d2ee00357k">https://doi.org/10.1039/d2ee00357k</a> .  |
|              | #LIU Shiyuan, #SHAN Yao, #HONG Ying, JIN Yuankai, #LIN Weikang, #ZHANG Zhuomin, #XU Xiaote, WANG Zuankai, YANG Zhengbao, "3D Conformal Fabrication of Piezoceramic Films", <i>Advanced Science</i> , 28 April 2022, doi: <a href="https://doi.org/10.1002/advs.202106030">https://doi.org/10.1002/advs.202106030</a> .  |
|              | #XU Xiaote, #WANG Yilong, #LI Pengyu, XU Wanghuai, WEI Lei, WANG Zuankai, YANG Zhengbao, "A leaf-mimic rain energy harvester by liquid-solid contact electrification and piezoelectricity", <i>Nano Energy</i> , 90, 27 September 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106573">https://doi.org/10.1016/j.nanoen.2021.106573</a> .  |
| YAN Xiantong | #YAN Xiantong, XU Wanghuai, DENG Yajun, ZHANG Chao, ZHENG Huanxi, #YANG Siyan, #SONG Yuxin, #LI Pengyu, #XU Xiaote, HU Yue, ZHANG Luwen, YANG Zhengbao, WANG Steven, WANG Zuankai, "Bubble energy generator", <i>Science Advances</i> , 8(25), 24 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abo7698">https://doi.org/10.1126/sciadv.abo7698</a> .   |
|              | SUN Jing, ZHU Pingan, #YAN Xiantong, ZHANG Chao, JIN Yuankai, CHEN Xuan, WANG Zuankai, "Robust liquid repellency by stepwise wetting resistance", <i>Applied Physics Reviews</i> , 8(3), 13 July 2021, doi: <a href="https://doi.org/10.1063/5.0056377">https://doi.org/10.1063/5.0056377</a> .   |
| YAN Yang     | HUANG Jiefeng, LIU Hui, FANG Hongjie, ZHANG Jiayi, ZHANG Qian, HE Xuehua, SONG Juemin, LI Zheng, #YAN Yang, YU Kun, "Effects of intermetallic phases on electrochemical properties of powder metallurgy Mg-6%Al-5%Pb anode alloy used for seawater activated battery", <i>Materials Research Express</i> , 9(6), 03 June 2022, doi: <a href="https://doi.org/10.1088/2053-1591/ac703c">https://doi.org/10.1088/2053-1591/ac703c</a> . |
| YANG Meng    | ZHONG Ziwen, NIU Jianlei, MA Wei, YAO Shuhuai, #YANG Meng, WANG Zuankai, "An experimental study of condensation on an aluminum radiant ceiling panel surface with superhydrophobic treatment", <i>Energy and Buildings</i> , 252, 25 August 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111393">https://doi.org/10.1016/j.enbuild.2021.111393</a> .  |
|              | ZHONG Z. W., NIU J. L., MA W., YAO S. H., #YANG Meng, WANG Zuankai, "Condensation performance of superhydrophobic aluminium surface material used for cooled ceiling panels under highly humid indoor conditions", <i>Journal of Physics: Conference Series</i> , 2069, 02 December 2021, doi: <a href="https://doi.org/10.1088/1742-6596/2069/1/012121">https://doi.org/10.1088/1742-6596/2069/1/012121</a> .                        |
| YANG Siyan   | #YAN Xiantong, XU Wanghuai, DENG Yajun, ZHANG Chao, ZHENG Huanxi, #YANG Siyan, #SONG Yuxin, #LI Pengyu, #XU Xiaote, HU Yue, ZHANG Luwen, YANG Zhengbao, WANG Steven, WANG Zuankai, "Bubble energy generator", <i>Science Advances</i> , 8(25), 24 June 2022, doi: <a href="https://doi.org/10.1126/sciadv.abo7698">https://doi.org/10.1126/sciadv.abo7698</a> .   |
|              | #ZHANG Wei, JIN Yuankai, #YANG Siyan, #ZHANG Huanhuan, WANG Zuankai, "Bioinspired Topological Surfaces for Mitigating Water, Thermal and Energy Crises", <i>Accounts of Materials Research</i> , 3(2), 14 January 2022, pp 199-212, doi: <a href="https://doi.org/10.1021/accountsmr.1c00218">https://doi.org/10.1021/accountsmr.1c00218</a> .  |
|              | JIN Yuankai, XU Wanghuai, #ZHANG Huanhuan, LI Ruirui, SUN Jing, #YANG Siyan, LIU Minjie, MAO Haiyang, WANG Zuankai, "Electrostatic tweezer for droplet manipulation", <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 119(2), 06 January 2022, doi: <a href="https://doi.org/10.1073/pnas.2105459119">https://doi.org/10.1073/pnas.2105459119</a> .  |
|              | #YANG Siyan, LI Wanbo, SONG Yajie, YING Yushan, WEN Rongfu, DU Bingang, JIN Yuankai, WANG Zuankai, MA Xuehu, "Hydrophilic Slippery Surface Promotes Efficient   |

## Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
|                       | Defrosting", <i>Langmuir</i> , 37(40), 27 September 2021, pp 11931-11938, doi: <a href="https://doi.org/10.1021/acs.langmuir.1c02159">https://doi.org/10.1021/acs.langmuir.1c02159</a> .  |
|                       | #WANG Lili, #SONG Yuxin, XU Wanghuai, LI Wanbo, JIN Yuankai, #GAO Shouwei, #YANG Siyan, #WU Chenyang, WANG Steven, WANG Zuankai, "Harvesting energy from high-frequency impinging water droplets by a droplet-based electricity generator", <i>EcoMat</i> , 3(4), August 2021, doi: <a href="https://doi.org/10.1002/eom2.12116">https://doi.org/10.1002/eom2.12116</a> .   |
|                       | #YANG Siyan, #WU Chenyang, ZHAO Guanlei, SUN Jing, YAO Xi, MA Xuehu, WANG Zuankai, "Condensation frosting and passive anti-frosting", <i>Cell Reports Physical Science</i> , 2(7), 01 July 2021, doi: <a href="https://doi.org/10.1016/j.xcrp.2021.100474">https://doi.org/10.1016/j.xcrp.2021.100474</a> .   |
| <b>YAO Xiaoxue</b>    | TANG Ruijie, #YAO Xiaoxue, CHEN Jingyi, SRIDAR Sreepathy, HE Xianglei, PU Yuan, WANG Jie-Xin, WANG Dan, WANG Steven, "A Highly Controlled Organic-Inorganic Encapsulation Nanocomposite with Versatile Features toward Wearable Device Applications", <i>Macromolecular Rapid Communications</i> , 42(17), 06 August 2021, doi: <a href="https://doi.org/10.1002/marc.202100134">https://doi.org/10.1002/marc.202100134</a> .                   |
|                       | ZHAO Zhijian, #YAO Xiaoxue, #ZHAO Wen, SHI Bo, SRIDHAR Sreepathy, PU Yuan, PRAMANA Stevin, WANG Dan, WANG Steven, "Highly transparent liquid marble in liquid (HT-LMIL) as 3D miniaturized reactor for real-time bio-/chemical assays", <i>Chemical Engineering Journal</i> , 443, 16 April 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.136417">https://doi.org/10.1016/j.cej.2022.136417</a> .                                      |
|                       | #DENG Wei, #SUN Yajun, #YAO Xiaoxue, SUBRAMANIAN SENTHILKANNAN Karpagam, #LING Chen, #WANG Hongbo, CHOPRA Shauhrat Singh, XU Ben Bin, WANG Jie-Xin, CHEN Jian-Feng, WANG Dan, AMANCIO Honeyfer, PRAMANA Stevin, YE Ruquan, WANG Steven, "Masks for COVID-19", <i>Advanced Science</i> , 9(3), 26 November 2021, doi: <a href="https://doi.org/10.1002/advs.202102189">https://doi.org/10.1002/advs.202102189</a> .                              |
| <b>YIN Jianan</b>     | #HE Yunhu, CHEN Zhou, #KONG Shangcheng, #MAO Zhengyi, #YANG Chen, #WANG Wanying, #WAN Lei, LIU Guo, #YIN Jianan, CHAN Chi Hou, LU Jian, "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i> , 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a> .  |
| <b>ZENG Yijun</b>     | #WONG Man Yi, #ZHU Yihao, #ZENG Yijun, HO Tsz Chung, YANG Yinchuang, QIU Huihe, TSO Chi Yan, "Thermal Rectification Enhancement of Coalescence-Jumping Phase Transition Thermal Diodes using Cu-Al <sub>2</sub> O <sub>3</sub> Hybrid Nanofluids", <i>Advanced Engineering Materials</i> , 24(6), 06 October 2021, doi: <a href="https://doi.org/10.1002/adem.202100958">https://doi.org/10.1002/adem.202100958</a> .                           |
| <b>ZHANG Hongyu</b>   | ZHAN Zhikun, LI Yang, ZHAO Yuliang, #ZHANG Hongyu, WANG Zhen, FU Boya, LI Wen Jung, "A Review of Electrochemical Sensors for the Detection of Glycated Hemoglobin", <i>Biosensors</i> , 12(4), 08 April 2022, doi: <a href="https://doi.org/10.3390/bios12040221">https://doi.org/10.3390/bios12040221</a> .  |
| <b>ZHANG Huanhuan</b> | #ZHANG Wei, JIN Yuankai, #YANG Siyan, #ZHANG Huanhuan, WANG Zuankai, "Bioinspired Topological Surfaces for Mitigating Water, Thermal and Energy Crises", <i>Accounts of Materials Research</i> , 3(2), 14 January 2022, pp 199-212, doi: <a href="https://doi.org/10.1021/accountsmr.1c00218">https://doi.org/10.1021/accountsmr.1c00218</a> .  |
|                       | JIN Yuankai, XU Wanghuai, #ZHANG Huanhuan, LI Ruirui, SUN Jing, #YANG Siyan, LIU Minjie, MAO Haiyang, WANG Zuankai, "Electrostatic tweezer for droplet manipulation", <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 119(2), 06 January 2022, doi: <a href="https://doi.org/10.1073/pnas.2105459119">https://doi.org/10.1073/pnas.2105459119</a> .  |
|                       | JIANG Mengnan, WANG Yang, #LIU Fayu, DU Hanheng, #LI Yuchao, #ZHANG Huanhuan, TO Suet, WANG Steven, PAN Chin, YU Jihong, QUÉRÉ David, WANG Zuankai, "Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling", <i>Nature</i> , 601(7894), 26 January 2022, pp 568-572, doi: <a href="https://doi.org/10.1038/s41586-021-04307-3">https://doi.org/10.1038/s41586-021-04307-3</a> .  |
| <b>ZHANG Jiayong</b>  | #ZHANG Jiayong, ZHANG Hongwu, LI Qian, #CHENG Lizi, YE Hongfei, ZHENG Yonggang, LU Jian, "The physical origin of observed repulsive forces between general dislocations and twin boundaries in FCC metals: An atom-continuum coupling study", <i>Journal of Materials Science and Technology</i> , 109, 28 October 2021, pp 221-227, doi: <a href="https://doi.org/10.1016/j.jmst.2021.08.058">https://doi.org/10.1016/j.jmst.2021.08.058</a> . |
| <b>ZHANG Jiazhi</b>   | #ZHANG Jiazhi, DAI Zongbiao, ZENG Liyang, ZUO Xunwei, WAN Jianfeng, RONG Yonghua, CHEN Nailu, LU Jian, CHEN Hao, "Revealing carbide precipitation effects and their mechanisms during quenching-partitioning-tempering of a high carbon steel: Experiments and Modeling", <i>Acta Materialia</i> , 217, 21 July 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117176">https://doi.org/10.1016/j.actamat.2021.117176</a> .          |

## Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | #ZHANG Jiazhi, ZENG Liyang, ZUO Xunwei, WAN Jianfeng, RONG Yonghua, MIN Na, <u>LU Jian</u> , CHEN Nailu, "Universality of quenching-partitioning-tempering local equilibrium model", <i>Journal of Materials Science and Technology</i> , 124, 22 March 2022, pp 116-120, doi: <a href="https://doi.org/10.1016/j.jmst.2021.12.021">https://doi.org/10.1016/j.jmst.2021.12.021</a> .   |
| <b>ZHANG Jingyang</b> | #SHEN Junda, DU Peng, ZHOU Binbin, <u>ZHANG Guobin</u> , #TANG Xinxue, #PAN Jie, #LI Bo, #ZHANG Jingyang, <u>LU Jian</u> , <u>LI Yangyang</u> , "An anti-freezing biomineral hydrogel of high strain sensitivity for artificial skin applications", <i>Nano Research</i> , 15(7), 22 March 2022, pp 6655–6661, doi: <a href="https://doi.org/10.1007/s12274-022-4213-x">https://doi.org/10.1007/s12274-022-4213-x</a> .  |
|                       | #SHUANG Shuo, YU Qing, #GAO Xiang, HE Quanfeng, #ZHANG Jingyang, SHI S. Q., <u>YANG Yong</u> , "Tuning the microstructure for superb corrosion resistance in eutectic high entropy alloy", <i>Journal of Materials Science and Technology</i> , 109, 07 November 2021, pp 197-208, doi: <a href="https://doi.org/10.1016/j.jmst.2021.08.069">https://doi.org/10.1016/j.jmst.2021.08.069</a> .  |
|                       | #ZHANG Jingyang, #ZHOU Ziqing, #ZHANG Zhibo, #PARK Minhyuk, YU Qing, LI Z, MA J, WANG Anding, HUANG H G, SONG M., <u>GUO Baisong</u> , WANG Qing, <u>YANG Yong</u> , "Recent development of chemically complex metallic glasses: from accelerated compositional design, additive manufacturing to novel applications", <i>Materials Futures</i> , 1(1), 14 February 2022, doi: <a href="https://doi.org/10.1088/2752-5724/ac4558">https://doi.org/10.1088/2752-5724/ac4558</a> . |
|                       | YU Qing, #ZHANG Jingyang, LI Jia, #WANG Tianyu, #PARK Minhyuk, HE Quanfeng, #ZHANG Zhibo, LIANG Tao, DING Xue, <u>LI Yangyang</u> , WANG Qing, ZENG Qiaoshi, <u>YANG Yong</u> , "Strong, Ductile, and Tough Nanocrystal-Assembled Freestanding Gold Nanosheets", <i>Nano Letters</i> , 22(2), 14 January 2022, pp 822-829, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c04553">https://doi.org/10.1021/acs.nanolett.1c04553</a> .  |
| <b>ZHANG Jun</b>      | #HUANG Shasha, #ZHANG Jun, #XIONG Yaoxu, #MA Shihua, #XU Biao, <u>ZHAO Shijun</u> , "Effects of local chemical ordering on defect evolution in NiFe concentrated solid solution alloy", <i>Journal of Nuclear Materials</i> , 568, 25 June 2022, doi: <a href="https://doi.org/10.1016/j.jnucmat.2022.153877">https://doi.org/10.1016/j.jnucmat.2022.153877</a> .  |
|                       | #MA Shihua, #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #SHAO Wei, <u>ZHAO Shijun</u> , "Chemical short-range ordering regulated dislocation cross slip in high-entropy alloys", <i>Journal of Alloys and Compounds</i> , 911, 25 April 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.165144">https://doi.org/10.1016/j.jallcom.2022.165144</a> .   |
|                       | HE Liu, LI Zhongtao, #ZHANG Jun, PENG Fei, <u>ZHAO Shijun</u> , CHEN Hongyu, YAN Hongge, <u>YANG Tao</u> , CHEN Shuhai, LIU Bo, MA Yi, WU Zhenggang, "Softening Al <sub>13</sub> Fe <sub>4</sub> intermetallic compound through Fe-site multi-principal-element doping", <i>Scripta Materialia</i> , 218, 19 May 2022, doi: <a href="https://doi.org/10.1016/j.scriptamat.2022.114811">https://doi.org/10.1016/j.scriptamat.2022.114811</a> .                                    |
|                       | HE Zuyun, #ZHANG Jun, GONG Zhiheng, LEI Hang, ZHOU Deng, ZHANG Nian, MAI Wenjie, <u>ZHAO Shijun</u> , CHEN Yan, "Activating lattice oxygen in NiFe-based (oxy)hydroxide for water electrolysis", <i>Nature Communications</i> , 13, 21 April 2022, doi: <a href="https://doi.org/10.1038/s41467-022-29875-4">https://doi.org/10.1038/s41467-022-29875-4</a> .  |
|                       | #XU Biao, #ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #HUANG Shasha, <u>KAI Ji-jung</u> , <u>ZHAO Shijun</u> , "Revealing the crucial role of rough energy landscape on self-diffusion in high-entropy alloys based on machine learning and kinetic Monte Carlo", <i>Acta Materialia</i> , 234, 21 May 2022, doi: <a href="https://doi.org/10.1016/j.actamat.2022.118051">https://doi.org/10.1016/j.actamat.2022.118051</a> .  |
|                       | #ZHANG Jun, #XU Biao, #XIONG Yaoxu, #MA Shihua, WANG Zhe, WU Zhenggang, <u>ZHAO Shijun</u> , "Design high-entropy carbide ceramics from machine learning", <i>npj Computational Materials</i> , 8(1), 14 January 2022, doi: <a href="https://doi.org/10.1038/s41524-021-00678-3">https://doi.org/10.1038/s41524-021-00678-3</a> .  |
|                       | HU Lulu, ZHONG Fen, #ZHANG Jun, <u>ZHAO Shijun</u> , WANG Yongqiang, CAI Guangxu, CHENG Tao, WEI Guo, JIA Shuangfeng, ZHANG Dongxun, YIN Ran, CHEN Zhiquan, JIANG Changzhong, REN Feng, "High Hydrogen Isotopes Permeation Resistance in (TiVAlCrZr)O Multi-component Metal Oxide Glass Coating", <i>Acta Materialia</i> , 238, doi: <a href="https://doi.org/10.1016/j.actamat.2022.118204">https://doi.org/10.1016/j.actamat.2022.118204</a> .                                 |
|                       | HE Liu, #ZHANG Jun, LI Zhongtao, LIN Nan, LIU Bo, <u>ZHAO Shijun</u> , JIN Ke, CHEN Hongyu, YAN Hongge, PENG Fei, MA Yi, WU Zheng-Gang, "Toughening (NbTaZrW)C high-entropy carbide ceramic through Mo doping", <i>Journal of the American Ceramic Society</i> , 105(8), 02 April 2022, pp 5395-5407, doi: <a href="https://doi.org/10.1111/jace.18474">https://doi.org/10.1111/jace.18474</a> .   |



Section A: Publications of PhD Students

|               |  |
|---------------|--|
|               | <p>#ZHANG Jun, #MA Shihua, #XIONG Yaoxu, #XU Biao, ZHAO Shijun, "Elemental partitions and deformation mechanisms of L1<sub>2</sub>-type multicomponent intermetallics", <i>Acta Materialia</i>, 219, 12 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117238">https://doi.org/10.1016/j.actamat.2021.117238</a>.</p> <p>ZHAO Shijun, #XIONG Yaoxu, #MA Shihua, #ZHANG Jun, #XU Biao, KAI Ji-jung, "Defect accumulation and evolution in refractory multi-principal element alloys", <i>Acta Materialia</i>, 219, 13 August 2021, doi: <a href="https://doi.org/10.1016/j.actamat.2021.117233">https://doi.org/10.1016/j.actamat.2021.117233</a>.</p>   |
| ZHANG Wei     | <p>#ZHANG Wei, JIN Yuankai, #YANG Siyan, #ZHANG Huanhuan, WANG Zuankai, "Bioinspired Topological Surfaces for Mitigating Water, Thermal and Energy Crises", <i>Accounts of Materials Research</i>, 3(2), 14 January 2022, pp 199-212, doi: <a href="https://doi.org/10.1021/accountsmr.1c00218">https://doi.org/10.1021/accountsmr.1c00218</a>.</p>  |
| ZHANG Zhibo   | <p>#ZHANG Jingyang, #ZHOU Ziqing, #ZHANG Zhibo, #PARK Minhyuk, YU Qing, LI Z, MA J, WANG Anding, HUANG H G, SONG M., GUO Baisong, WANG Qing, YANG Yong, "Recent development of chemically complex metallic glasses: from accelerated compositional design, additive manufacturing to novel applications", <i>Materials Futures</i>, 1(1), 14 February 2022, doi: <a href="https://doi.org/10.1088/2752-5724/ac4558">https://doi.org/10.1088/2752-5724/ac4558</a>.</p> <p>#WANG Tianyu, #ZHANG Zhibo, #PARK Minhyuk, YU Qing, YANG Yong, "Etching-Free Ultrafast Fabrication of Self-Rolled Metallic Nanosheets with Controllable Twisting", <i>Nano Letters</i>, 21(17), 19 August 2021, pp 7159-7165, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c01789">https://doi.org/10.1021/acs.nanolett.1c01789</a>.</p> <p>YU Qing, #ZHANG Jingyang, LI Jia, #WANG Tianyu, #PARK Minhyuk, HE Quanfeng, #ZHANG Zhibo, LIANG Tao, DING Xue, LI Yangyang, WANG Qing, ZENG Qiaoshi, YANG Yong, "Strong, Ductile, and Tough Nanocrystal-Assembled Freestanding Gold Nanosheets", <i>Nano Letters</i>, 22(2), 14 January 2022, pp 822-829, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c04553">https://doi.org/10.1021/acs.nanolett.1c04553</a>.</p>  |
| ZHANG Zhuomin | <p>#HONG Ying, JIN Lihan, #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, LEE Youngjin, KHOO Bee Luan, YANG Zhengbao, "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i>, 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a>.</p> <p>#WANG Weijun, #MENG You, #WANG Wei, #ZHANG Zhuomin, #XIE Pengshan, #LAI Zhengxun, BU Xiuming, #LI Yezhan, LIU Chuntai, YANG Zhengbao, YIP Sen Po, HO Johnny Chung Yin, "Highly Efficient Full van der Waals 1D p-Te/2D n-Bi<sub>2</sub>O<sub>2</sub>Se Heterodiodes with Nanoscale Ultra-Photosensitive Channels", <i>Advanced Functional Materials</i>, 32(30), 06 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202203003">https://doi.org/10.1002/adfm.202203003</a>.</p> <p>#DENG Xiang, #QI Feng, #LI Fengzhu, WU Shengfan, LIN Francis, #ZHANG Zhuomin, GUAN Zhiqiang, YANG Zhengbao, LEE Chun Sing, JEN Alex, "Co-assembled Monolayers as Hole-selective Contact for High-Performance Inverted Perovskite Solar Cells with Optimized Recombination Loss and Long-Term Stability", <i>Angewandte Chemie (International Edition)</i>, 12 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203088">https://doi.org/10.1002/anie.202203088</a>.</p> <p>#ZHANG Zhuomin, #LIU Shiyuan, #PAN Qiqi, #HONG Ying, #SHAN Yao, #PENG Zehua, #XU Xiaote, LIU Bingren, CHAI Yu, YANG Zhengbao, "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i>, 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a>.</p> <p>YANG Peng, #ZHA Jijia, GAO Guoyun, ZHENG Long, #HUANG Haoxin, #XIA Yunpeng, XU Songcen, #XIONG Tengfei, #ZHANG Zhuomin, YANG Zhengbao, CHEN Ye, KI Dong-Keun, LIU Jun J., LIAO Wugang, TAN Chaoliang, "Growth of Tellurium Nanobelts on h-BN for p-type Transistors with Ultrahigh Hole Mobility", <i>Nano-Micro Letters</i>, 14(1), 19 April 2022, doi: <a href="https://doi.org/10.1007/s40820-022-00852-2">https://doi.org/10.1007/s40820-022-00852-2</a>.</p> <p>#XU Xiaote, #LI Pengyu, DING Yongtao, XU Wanghui, #LIU Shiyuan, #ZHANG Zhuomin, WANG Zuankai, YANG Zhengbao, "Droplet energy harvesting panel", <i>Energy &amp; Environmental Science</i>, 15(7), 15 June 2022, pp 2916–2926, doi: <a href="https://doi.org/10.1039/d2ee00357k">https://doi.org/10.1039/d2ee00357k</a>.</p> <p>#LIU Shiyuan, #SHAN Yao, #HONG Ying, JIN Yuankai, #LIN Weikang, #ZHANG Zhuomin, #XU Xiaote, WANG Zuankai, YANG Zhengbao, "3D Conformal Fabrication of Piezoceramic Films", <i>Advanced Science</i>, 28 April 2022, doi: <a href="https://doi.org/10.1002/advs.202106030">https://doi.org/10.1002/advs.202106030</a>.</p> |

Section A: Publications of PhD Students

|               |   |
|---------------|---|
|               | #HONG Ying, #WANG Biao, #LONG Zhihe, #ZHANG Zhuomin, #PAN Qiqi, #LIU Shiyuan, #LUO Xiaowei, #YANG Zhengbao, "Hierarchically Interconnected Piezoceramic Textile with a Balanced Performance in Piezoelectricity, Flexibility, Toughness, and Air Permeability", <i>Advanced Functional Materials</i> , 31(42), 24 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104737">https://doi.org/10.1002/adfm.202104737</a> .   |
| ZHAO Weijiang | #GAO Xiang, #WANG Hang, #ZHAO Weijiang, #YANG Yong, "Fabrication of strong yet malleable bulk porous high entropy laves intermetallics via chemical immersion dealloying of eutectic high entropy alloys", <i>Scripta Materialia</i> , 219, 11 June 2022, doi: <a href="https://doi.org/10.1016/j.scriptamat.2022.114859">https://doi.org/10.1016/j.scriptamat.2022.114859</a> .  |
| ZHAO Wen      | #ZHAO Wen, GAN Dingli, QU Xinyu, LIU Jingying, LIU Yunlong, WANG Qian, WANG Wenjun, SUN Chencheng, DONG Xiaochen, "Bioinspired wet-resistant organogel for highly sensitive mechanical perception", <i>Science China Materials</i> , 65(8), 01 April 2022, pp 2262–2273, doi: <a href="https://doi.org/10.1007/s40843-021-2004-6">https://doi.org/10.1007/s40843-021-2004-6</a> .<br>ZHAO Zhijian, #YAO Xiaoxue, #ZHAO Wen, SHI Bo, SRIDHAR Sreepathy, PU Yuan, PRAMANA Stevin, WANG Dan, #WANG Steven, "Highly transparent liquid marble in liquid (HT-LMIL) as 3D miniaturized reactor for real-time bio-/chemical assays", <i>Chemical Engineering Journal</i> , 443, 16 April 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.136417">https://doi.org/10.1016/j.cej.2022.136417</a> .  |
| ZHOU Jingzhuo | #ZHOU Jingzhuo, WU Xin, CHEN Yan, YANG Chuang, YANG Rui, TAN Junyang, LIU Yilun, QIU Ling, CHENG Hui-Ming, "3D Printed Template-Directed Assembly of Multiscale Graphene Structures", <i>Advanced Functional Materials</i> , 32(18), 20 January 2022, doi: <a href="https://doi.org/10.1002/adfm.202105879">https://doi.org/10.1002/adfm.202105879</a> .<br>#HAN Ying, #GAO Libo, #ZHOU Jingzhuo, #HOU Yuan, #JIA Yanwen, #CAO Ke, #DUAN Ke, #LU Yang, "Deep Elastic Strain Engineering of 2D Materials and Their Twisted Bilayers", <i>ACS Applied Materials &amp; Interfaces</i> , 14(7), 11 February 2022, pp 8655–8663, doi: <a href="https://doi.org/10.1021/acsami.1c23431">https://doi.org/10.1021/acsami.1c23431</a> .  |
| ZHOU Jun      | #HUSSAIN Iftikhar, IQBAL Sarmad, HUSSAIN Tanveer, CHEUNG Wai Lok, KHAN Skakeel Ahmad, #ZHOU Jun, #AHMAD Muhammad, #KHAN Shahid Ali, LAMIEL Charmaine, IMRAN Muhammad, ALFANTAZI Akram, #ZHANG Kaili, "Zn–Co-MOF on solution-free CuO nanowires for flexible hybrid energy storage devices", <i>Materials Today Physics</i> , 23, 05 March 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100655">https://doi.org/10.1016/j.mtphys.2022.100655</a> .<br>#GU Shuai, #CHEN Yatu, HAO Rui, #ZHOU Jun, #HUSSAIN Iftikhar, #QIN Ning, LI Muqing, CHEN Jingjing, WANG Zhiqiang, ZHENG Wei, GAN Qingmeng, LI Zhiqiang, GUO Hao, LI Yingzhi, #ZHANG Kaili, LU Zhouguang, "Redox of naphthalenediimide radicals in a 3D polyimide for stable Li-ion batteries", <i>Chemical Communications</i> , 57(63), 07 July 2021, pp 7810–7813, doi: <a href="https://doi.org/10.1039/d1cc02426d">https://doi.org/10.1039/d1cc02426d</a> .<br>#CHEN Yatu, #GU Shuai, #ZHOU Jun, #CHEN Xi, SUN Zhipeng, LU Zhouguang, #ZHANG Kaili, "A novel Mn <sup>2+</sup> -additive free Zn/MnO <sub>2</sub> battery with 2.4 V voltage window and enhanced stability", <i>Journal of Alloys and Compounds</i> , 909, 31 March 2022, doi: <a href="https://doi.org/10.1016/j.jallcom.2022.164835">https://doi.org/10.1016/j.jallcom.2022.164835</a> .  |
| ZHOU Yongsen  | #MO Jiaying, #DAI Yuhang, #ZHANG Chao, #ZHOU Yongsen, #LI Wanbo, #SONG Yuxin, #WU Chenyang, #WANG Zuankai, "Design of ultra-stretchable, highly adhesive and self-healable hydrogels via tannic acid-enabled dynamic interactions", <i>Materials Horizons</i> , 8(12), 07 October 2021, pp 3409–3416, doi: <a href="https://doi.org/10.1039/d1mh01324f">https://doi.org/10.1039/d1mh01324f</a> .<br>#ZHANG Chao, #ZHENG Huanxi, #SUN Jing, #ZHOU Yongsen, #XU Wanghuai, #DAI Yuhang, #MO Jiaying, #WANG Zuankai, "3D Printed, Solid-State Conductive Ionoelastomer as a Generic Building Block for Tactile Applications", <i>Advanced Materials</i> , 34(2), 03 November 2021, doi: <a href="https://doi.org/10.1002/adma.202105996">https://doi.org/10.1002/adma.202105996</a> .<br>#LI Yuchao, #WANG Mingmei, #ZHANG Chao, #WANG Chun-Chuan, #XU Wanghuai, #GAO Shouwei, #ZHOU Yongsen, #WANG Chun-Ta, #WANG Zuankai, "A Fully Self-Powered Cholesteric Smart Window Actuated by Droplet-Based Electricity Generator", <i>Advanced Optical Materials</i> , 10(7), 11 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102274">https://doi.org/10.1002/adom.202102274</a> .<br>#ZHOU Yongsen, #ZHANG Chao, #GAO Shouwei, #LI Wanbo, #KAI Ji-jung, #WANG Zuankai, "Pressure-Sensitive Adhesive with Enhanced and Phototunable Underwater Adhesion", <i>ACS Applied Materials and Interfaces</i> , 13(42), 15 October 2021, pp 50451–50460, doi: <a href="https://doi.org/10.1021/acsami.1c16146">https://doi.org/10.1021/acsami.1c16146</a> . |

Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
|                          | <p><u>ZHANG Baoping</u>, #<u>WONG Pak Wai</u>, <u>GUO Jiaxin</u>, #<u>ZHOU Yongsen</u>, <u>WANG Yang</u>, #<u>SUN Jiawei</u>, <u>JIANG Mengnan</u>, <u>WANG Zuankai</u>, <u>AN Kyoung Jin Alicia</u>, "Transforming Ti<sub>3</sub>C<sub>2</sub>X MXene's intrinsic hydrophilicity into superhydrophobicity for efficient photothermal membrane desalination", <i>Nature Communications</i>, 13, 08 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31028-6">https://doi.org/10.1038/s41467-022-31028-6</a>.</p>  |
|                          | <p>#<u>ZHOU Yongsen</u>, <u>ZHANG Chao</u>, #<u>GAO Shouwei</u>, <u>ZHANG Baoping</u>, <u>SUN Jing</u>, <u>KAI Ji-jung</u>, <u>WANG Bing</u>, <u>WANG Zuankai</u>, "Instant and Strong Underwater Adhesion by Coupling Hygroscopicity and in Situ Photocuring", <i>Chemistry of Materials</i>, 33(22), 15 November 2021, pp 8822-8830, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c03007">https://doi.org/10.1021/acs.chemmater.1c03007</a>.</p>   |
|                          | <p>#<u>MAO Zhengyi</u>, #<u>HUO Mengke</u>, <u>LYU Fucong</u>, #<u>ZHOU Yongsen</u>, <u>BU Yu</u>, #<u>WAN Lei</u>, <u>PAN Lulu</u>, #<u>PAN Jie</u>, <u>LIU Hui</u>, <u>LU Jian</u>, "Nacre-like material with tough and post-tunable mechanical properties", <i>Journal of Materials Science and Technology</i>, 114, 15 January 2022, pp 172-179, doi: <a href="https://doi.org/10.1016/j.jmst.2021.11.018">https://doi.org/10.1016/j.jmst.2021.11.018</a>.</p>   |
| <b>ZHOU Ziqing</b>       | <p>#<u>ZHANG Jingyang</u>, #<u>ZHOU Ziqing</u>, #<u>ZHANG Zhibo</u>, #<u>PARK Minhyuk</u>, <u>YU Qing</u>, <u>LI Z</u>, <u>MA J</u>, <u>WANG Anding</u>, <u>HUANG H G</u>, <u>SONG M.</u>, <u>GUO Baisong</u>, <u>WANG Qing</u>, <u>YANG Yong</u>, "Recent development of chemically complex metallic glasses: from accelerated compositional design, additive manufacturing to novel applications", <i>Materials Futures</i>, 1(1), 14 February 2022, doi: <a href="https://doi.org/10.1088/2752-5724/ac4558">https://doi.org/10.1088/2752-5724/ac4558</a>.</p>                                 |
|                          | <p><u>LIU Xiaodi</u>, <u>HE Quanfeng</u>, <u>LU Wenfei</u>, #<u>ZHOU Ziqing</u>, <u>TIAN Jinsen</u>, <u>LIANG Dandan</u>, <u>MA Jiang</u>, <u>YANG Yong</u>, <u>SHEN Jun</u>, "Machine learning atomic dynamics to unfold the origin of plasticity in metallic glasses: From thermo- to acousto-plastic flow", <i>Science China Materials</i>, 65(7), 25 March 2022, pp 1952–1962, doi: <a href="https://doi.org/10.1007/s40843-021-1990-2">https://doi.org/10.1007/s40843-021-1990-2</a>.</p>   |
|                          | <p>#<u>ZHOU Ziqing</u>, <u>HE Quanfeng</u>, <u>LIU X. D.</u>, <u>WANG Q.</u>, <u>LUAN Junhua</u>, <u>LIU Chain Tsuan</u>, <u>YANG Yong</u>, "Rational design of chemically complex metallic glasses by hybrid modeling guided machine learning", <i>npj Computational Materials</i>, 7, 23 August 2021, doi: <a href="https://doi.org/10.1038/s41524-021-00607-4">https://doi.org/10.1038/s41524-021-00607-4</a>.</p>  |
|                          | <p><u>HE Quanfeng</u>, <u>WANG Jianguo</u>, <u>CHEN H. A.</u>, <u>DING Zhaoyi</u>, #<u>ZHOU Ziqing</u>, <u>XIONG L. H.</u>, <u>LUAN Junhua</u>, <u>PELLETIER J. M.</u>, <u>QIAO Jichao</u>, <u>WANG Q.</u>, <u>FAN L. L.</u>, <u>REN Yang</u>, <u>ZENG Q. S.</u>, <u>LIU Chain Tsuan</u>, <u>PAO C. W.</u>, <u>SROLOVITZ David Joseph</u>, <u>YANG Yong</u>, "A highly distorted ultraelastic chemically complex Elinvar alloy", <i>Nature</i>, 602, 09 February 2022, pp 251-257, doi: <a href="https://doi.org/10.1038/s41586-021-04309-1">https://doi.org/10.1038/s41586-021-04309-1</a>.</p> |
| <b>ZHU Meilu</b>         | <p>#<u>CHEN Zhen</u>, #<u>LIU Jie</u>, #<u>ZHU Meilu</u>, <u>WOO Peter Y.M.</u>, <u>YUAN Yixuan</u>, "Instance importance-Aware graph convolutional network for 3D medical diagnosis", <i>Medical Image Analysis</i>, 78, 18 March 2022, doi: <a href="https://doi.org/10.1016/j.media.2022.102421">https://doi.org/10.1016/j.media.2022.102421</a>.</p>   |
|                          | <p><u>JIANG Xi</u>, <u>YUAN Yixuan</u>, <u>WANG Yaping</u>, <u>XIAO Zhenxiang</u>, #<u>ZHU Meilu</u>, <u>CHEN Zehua</u>, <u>LIU Tianming</u>, <u>SHEN Dinggang</u>, "中国医学影像人工智能 20 年回顾和展望", <i>中国图象图形学报</i>, 27(3), 12 January 2022, pp 655-671, doi: <a href="https://doi.org/10.11834/jig.211162">https://doi.org/10.11834/jig.211162</a>.</p>   |
| <b>Conference papers</b> |  |
| <b>CAI Junjie</b>        | <p>#<u>CAI Junjie</u>, <u>ZHAO Jiyun</u>, <u>CHENG Haimei</u>, <u>ZI Shuangfei</u>, <u>XIAO Jinchao</u>, "Dispersion of radionuclides released by severe accidents and consequences analysis in Guangzhou city", <i>2021 International Congress on Advances in Nuclear Power Plants (ICAPP 2021)</i>, Khalifa University, Abu Dhabi, United Arab Emirates, 16-20 October 2021.</p>   |
| <b>LI Yuanjie</b>        | <p>#<u>LI Yuanjie</u>, #<u>SHAH Syed Waqar Ali</u>, <u>PAN Chin</u>, "Quantitative Measurements of Bubbles and Foam Flow Generated From Two-Phase Subcooled Flow Boiling of Seawater in a Vertical Annulus", <i>Nuclear Fuels, Research, and Fuel Cycle; Nuclear Codes and Standards; Thermal-Hydraulics</i>, Virtual, 04-06 August 2021, (ISBN: 978-0-7918-8525-3).</p>   |
| <b>LIU Rui</b>           | <p>#<u>WANG Min</u>, #<u>LEUNG Kwan Yi</u>, #<u>LIU Rui</u>, <u>SONG Shuang</u>, <u>YUAN Yixuan</u>, <u>YIN Jianqin</u>, <u>MENG Max Q.-H.</u>, <u>LIU Jun</u>, "Dynamic tracking for microrobot with active magnetic sensor array", <i>2021 IEEE International Conference on Robotics and Automation (ICRA 2021)</i>, Xi'an, China, 30 May - 05 June 2021, pp 7288-7294, (ISBN: 9781728190778,9781728190785).</p>   |
| <b>PAN Qiqi</b>          | <p>#<u>PAN Qiqi</u>, <u>ZHANG Lingling</u>, #<u>WANG Biao</u>, <u>YANG Zhengbao</u>, "A translation-to-rotation converter for scavenging energy from human walking", <i>Proceedings of ASME 2021</i></p>   |

Section A: Publications of PhD Students

|   |   |
|---|---|
|   | <i>Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS 2021)</i> , Virtual, Online, 14-15 September 2021, (ISBN: 978-0-7918-8549-9).   |
| <b>SHAH Syed Waqar Ali</b>                            | # <a href="#">LI Yuanjie</a> , # <a href="#">SHAH Syed Waqar Ali</a> , <a href="#">PAN Chin</a> , "Quantitative Measurements of Bubbles and Foam Flow Generated From Two-Phase Subcooled Flow Boiling of Seawater in a Vertical Annulus", <i>Nuclear Fuels, Research, and Fuel Cycle; Nuclear Codes and Standards; Thermal-Hydraulics</i> , Virtual, 04-06 August 2021, (ISBN: 978-0-7918-8525-3).  |
| <b>WANG Biao</b>                                      | # <a href="#">PAN Qiqi</a> , <a href="#">ZHANG Lingling</a> , # <a href="#">WANG Biao</a> , <a href="#">YANG Zhengbao</a> , "A translation-to-rotation converter for scavenging energy from human walking", <i>Proceedings of ASME 2021 Conference on Smart Materials, Adaptive Structures and Intelligent Systems (SMASIS 2021)</i> , Virtual, Online, 14-15 September 2021, (ISBN: 978-0-7918-8549-9).  |
| <b>WANG Min</b>                                       | # <a href="#">WANG Min</a> , # <a href="#">LEUNG Kwan Yi</a> , # <a href="#">LIU Rui</a> , <a href="#">SONG Shuang</a> , <a href="#">YUAN Yixuan</a> , <a href="#">YIN Jianqin</a> , <a href="#">MENG Max Q.-H.</a> , <a href="#">LIU Jun</a> , "Dynamic tracking for microrobot with active magnetic sensor array", <i>2021 IEEE International Conference on Robotics and Automation (ICRA 2021)</i> , Xi'an, China, 30 May - 05 June 2021, pp 7288-7294, (ISBN: 9781728190778,9781728190785).                                   |
| <b>ZHU Meilu</b>                                      | # <a href="#">CHEN Zhen</a> , # <a href="#">ZHU Meilu</a> , # <a href="#">YANG Chen</a> , <a href="#">YUAN Yixuan</a> , "Personalized Retrogress-Resilient Framework for Real-World Medical Federated Learning", <i>Medical Image Computing and Computer Assisted Intervention – MICCAI 2021 - 24th International Conference Strasbourg, France, September 27 – October 1, 2021 Proceedings, Part III</i> , Virtual, Strasbourg, France, 27 September - 01 October 2021, pp 347-356, (ISBN: 978-3-030-87198-7,978-3-030-87199-4). |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>LING Chen</b>                                      | # <a href="#">YAO Xiaoxue</a> , <a href="#">WONG Yat Hei</a> , # <a href="#">LING Chen</a> , <a href="#">WANG Zuankai</a> , <a href="#">WANG Steven</a> , "Fog-based Electrical Power Generator And Self-Powered System", Licensing Agreement with Deep Tech, Hong Kong, 14 June 2022.  |
| <b>SURJADI James Utama</b>                            | <a href="#">LU Yang</a> , # <a href="#">SURJADI James Utama</a> , Method for the Fabrication of Architected 3D High Entropy Alloy Structures, Patent No.: US11,053,567, United States, 06 July 2021.  |
| <b>WANG Tianyu</b>                                    | # <a href="#">WANG Tianyu</a> , <a href="#">YANG Yong</a> , <a href="#">DING Zhaoyi</a> , <a href="#">HE Quanfeng</a> , A Facile Method for The Large Area Synthesis of Geometrically Two Dimensional Metals And Ceramics, Patent No.: US11,168,390, United States, 09 November 2021.   |
| <b>XU Bo</b>  | <a href="#">NIU Xinrui</a> , # <a href="#">XU Bo</a> , Medium for Binding Components in An Assembly of An Electronic Device, A Method of Preparing The Same, A Display Assembly of An Electronic Device, And A System for Simulating Mechanical Behaviours of The Electronic Device And The Medium, Patent No.: US11,116,096, United States, 07 September 2021.   |
| <b>YAO Xiaoxue</b>                                    | # <a href="#">YAO Xiaoxue</a> , <a href="#">WONG Yat Hei</a> , # <a href="#">LING Chen</a> , <a href="#">WANG Zuankai</a> , <a href="#">WANG Steven</a> , "Fog-based Electrical Power Generator And Self-Powered System", Licensing Agreement with Deep Tech, Hong Kong, 14 June 2022.  |
| <b>ZENG Yijun</b>                                     | # <a href="#">DU Yuwei</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">CHEN Siru</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , # <a href="#">ZHU Yihao</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">ZENG Yijun</a> , A Multi-layer Particle-embedded Passive Radiative Cooling Paint, Patent No.: HK30045313, Hong Kong, 15 October 2021.  |
| <b>All other outputs</b>                              |   |
| <b>ALI Zulfiqar</b>                                   | # <a href="#">ALI Zulfiqar</a> , <i>Isogeometric Collocation Methods for Analysis-suitable Parameterization and Thermal Analysis</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 September 2021.   |
| <b>CAI Junjie</b>                                     | # <a href="#">CAI Junjie</a> , <i>Numerical Investigation for Dynamic Transport and Thermohydraulic Properties of High-Temperature Vapor and Radioactive Substances in Severe Nuclear Accident</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.  |
| <b>CHEN Meng</b>                                      | # <a href="#">CHEN Meng</a> , <i>Embedded uIMU for AI Based Animal/Human Motion Recognition and Performance Analysis</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 30 August 2021.  |
| <b>CHEN Yatu</b>                                      | # <a href="#">CHEN Yatu</a> , <i>Development of High Energy Density Zn-ion Hybrid Supercapacitors and Mn-based Zn-ion Batteries</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.   |

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|----------------------|---|
| <b>CHENG Lizi</b>    | # <u>CHENG Lizi</u> , <i>Mechanics of Hierarchical Architectures: Structural Design, Surface Modification and Failure Modes</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.  |
| <b>DENG Wei</b>      | # <u>DENG Wei</u> , Asian Conference on Emergency Medicine 2021 "Game Changer Competition" - Winner, 19 December 2021.<br># <u>DENG Wei</u> , The International Exhibition of Inventions of Geneva 2022 - Silver Medal, March 2022.   |
| <b>DENG Yongjian</b> | # <u>DENG Yongjian</u> , <i>Object Classification with Event-Based Cameras</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.  |
| <b>GONG Ying</b>     | # <u>GONG Ying</u> , <i>Direction-adaptive Flow Velocity Sensing and Energy Harvesting Design Under Vortex Induced Vibration</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 13 June 2022.<br># <u>GONG Ying</u> , <i>Direction-adaptive Flow Velocity Sensing and Energy Harvesting Design Under Vortex Induced Vibration</i> , PhD Thesis, Department of Mechanical Engineering, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, June 2022.   |
| <b>HAN Ying</b>      | # <u>HAN Ying</u> , <i>Elastic Straining of Free-Standing Two-Dimensional Materials</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 29 July 2021.   |
| <b>HONG Ying</b>     | # <u>HONG Ying</u> , <i>Template-assisted Multifunctional Piezoelectric Composites for Energy Harvesting and Sensing</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 04 January 2022.   |
| <b>HUANG Qingyun</b> | # <u>HUANG Qingyun</u> , <i>A Graphene-Based and 3D-Printed Sensing Device for Mapping Spatiotemporal Auricular Physiological Signals</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>JI Huanyun</b>    | # <u>JI Huanyun</u> , <i>A Fracture-Resistant and Durable Dental Restorative Composite with Bio-Inspired Graded Structure</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 May 2022.  |
| <b>JIANG Xingchi</b> | # <u>JIANG Xingchi</u> , <i>Development of a High Performance Heat Sink with Counter Flow Diverging Microchannels</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 05 November 2021.   |
| <b>KONG Ka Wai</b>   | # <u>KONG Ka Wai</u> , <i>Development of 3D-printed Flexible Pulse Wave Sensor Array for Potential Applications in AI-based Diagnostics</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 29 November 2021.<br># <u>CHAN Hiu Ling</u> , # <u>KONG Ka Wai</u> , Innovation Award of City I&T Grand Challenge, Innovation Award of City I&T Grand Challenge, City I&T Grand Challenge, Innovation and Technology Commission, Hong Kong, 16 October 2021.<br><u>LO Wing Cheong</u> , <u>LAI Wai Chiu King</u> , <u>CHOW Oi Wah Esther</u> , # <u>CHAN Hiu Ling</u> , # <u>KONG Ka Wai</u> , Silver Medal at 2022 Inventions Geneva Evaluation Days, The project "Smart Wear Enabling the Visually Impaired and the Elderly the Ultimate Freedom to Explore the World" received the Silver Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention.<br>The project is developed by AI Guided Limited, a start-up funded by TSSSU, CityU., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022.<br># <u>CHAN Hiu Ling</u> , # <u>KONG Ka Wai</u> , Merit Awards of Hardware Journey Eco-System Contest 2021, Merit Awards of Hardware Journey Eco-System Contest 2021, Federation of Hong Kong Industries, 18 December 2021. |
| <b>LI Haolin</b>     | # <u>LI Haolin</u> , <i>Surface/Interface Local Modification Design of Multimetal/Metaloxide Core-shell Nanocatalysts for Oxygen Reduction Reaction and Hydrogen Evolution Reaction: A Density Functional Theory Study</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 18 October 2021.   |
| <b>LI Wenpan</b>     | # <u>LI Wenpan</u> , <i>Research on Technology of Feature-Assisted Parallel Digital Image Correlation Method for Measuring Dynamic Deformation</i> , PhD Thesis, Department of  |

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|                            | Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 31 December 2021.  |
| <b>LI Xiaocui</b>          | # <u>LI Xiaocui</u> , <i>In situ Nanomechanical Characterization of 1-D Semiconductors</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 05 August 2021.   |
| <b>LI Xing</b>             | # <u>LI Xing</u> , <i>Enhanced Lubrication Behaviors of Gallium-matrix Liquid Metals</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 13 January 2022.  |
| <b>LI Yuanjie</b>          | # <u>LI Yuanjie</u> , <i>Experimental Investigations on Thermal Hydraulics and Bubble Dynamics of Subcooled Flow Boiling with Artificial Seawater</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 16 September 2021.   |
| <b>LIN Weitong</b>         | # <u>LIN Weitong</u> , <i>Pressurized Helium Precipitates-induced Property Changes in Advanced Crystalline Materials</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 27 October 2021.  |
| <b>LING Chen</b>           | <p><u>WANG Zuankai</u>, <u>WANG Steven</u>, #<u>LING Chen</u>, #<u>YAO Xiaoxue</u>, #<u>WANG Hongbo</u>, Gold Medal with Congratulations of the Jury at 2022 Inventions Geneva Evaluation Days, The project "Fog-to-electricity Generator with Ultra-high Power Density" received the Gold Medal with Congratulations of the Jury at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention.</p> <p>The research team of the winning project has founded a start-up, which is supported by CityU's flagship entrepreneurship programme HK Tech 300, to transfer the technology into actual application.</p> <p>The research team has introduced the first-ever fog-powered green generator for harvesting energy and freshwater from moisture. It combines a newly developed high-power density droplet-based energy generator (DEG) with a nature-inspired, superhydrophobic fog harvesting mesh. This new technology can produce a record-high power (300 V), with a water collection rate of approximately 250 litre per square meter per day. This dual electricity generator and fog harvester has the highest fogbased energy-conversion efficiency reported to date. It provides a sustainable, stable, low-cost, portable, and eco-friendly power supply solution, while simultaneously tackling the freshwater crisis in many major cities and areas., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022.</p> |
| <b>LIU Shaofei</b>         | # <u>LIU Shaofei</u> , <i>Helium Irradiation Defects and Mechanical Behavior of FCC-type Multicomponent Alloys</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 21 August 2021.   |
| <b>LIU Shiyuan</b>         | # <u>LIU Shiyuan</u> , <i>Modified Sol-gel Derived Multifunctional Piezoelectric Thin Films for Sensing and Energy Harvesting</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 29 April 2022.   |
| <b>MAO Zhengyi</b>         | # <u>MAO Zhengyi</u> , <i>3D Printing of Multifunctional Hydrogel-Based Materials</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.  |
| <b>SHI Yu</b>              | # <u>SHI Yu</u> , <i>Modeling of Battery Considering Temperature and Aging Uncertainties</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 18 October 2021.  |
| <b>SHUANG Shuo</b>         | # <u>SHUANG Shuo</u> , <i>Development of Corrosion-Resistant Multi-Principal Element Alloys</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.  |
| <b>SONG Yuxin</b>          | # <u>SONG Yuxin</u> , <i>High-performance Droplet Electricity Generator Based on a Lubricant-infused Surface</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 06 June 2022.   |
| <b>SURJADI James Utama</b> | # <u>SURJADI James Utama</u> , <i>Multiscale Mechanical Metamaterials and Their Engineering Applications</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 16 November 2021.   |

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| <b>WANG Biao</b>    | # <u>WANG Biao</u> , <i>Theoretical and Experimental Study of Arc-shaped Beams for Piezoelectric Energy Harvesting</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 04 January 2022.  |
| <b>WANG Hongbo</b>  | <p><u>WANG Zuankai</u>, <u>WANG Steven</u>, #<u>LING Chen</u>, #<u>YAO Xiaoxue</u>, #<u>WANG Hongbo</u>, Gold Medal with Congratulations of the Jury at 2022 Inventions Geneva Evaluation Days, The project "Fog-to-electricity Generator with Ultra-high Power Density" received the Gold Medal with Congratulations of the Jury at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention.</p> <p>The research team of the winning project has founded a start-up, which is supported by CityU's flagship entrepreneurship programme HK Tech 300, to transfer the technology into actual application.</p> <p>The research team has introduced the first-ever fog-powered green generator for harvesting energy and freshwater from moisture. It combines a newly developed high-power density droplet-based energy generator (DEG) with a nature-inspired, superhydrophobic fog harvesting mesh. This new technology can produce a record-high power (300 V), with a water collection rate of approximately 250 litre per square meter per day. This dual electricity generator and fog harvester has the highest fogbased energy-conversion efficiency reported to date. It provides a sustainable, stable, low-cost, portable, and eco-friendly power supply solution, while simultaneously tackling the freshwater crisis in many major cities and areas., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022.</p> |
| <b>WANG Tianyu</b>  | # <u>WANG Tianyu</u> , <i>Scalable Fabrication of Metallic Nanostructures Based on Polymer Surface Buckling Enabled Exfoliation: From 2D Nanosheets to Helical Tubes</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.   |
| <b>WANG Yilong</b>  | # <u>WANG Yilong</u> , <i>Compressive-mode Piezoelectric Energy Harvesting for Rotors of Aero-Engines</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 05 July 2021.  |
| <b>WANG Yuejiao</b> | # <u>WANG Yuejiao</u> , <i>Mechanical Design and 3D Printing of Micro-Mechanical Devices and Micro-Electronics</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>XIAO Ran</b>     | # <u>XIAO Ran</u> , <i>Application-oriented 3D Printing of Mechanical Metamaterials and Advanced Structures</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 28 July 2021.  |
| <b>YAN Xiantong</b> | # <u>YAN Xiantong</u> , <i>Nature-inspired Surfaces for Bubble-based Electricity Generation</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.   |
| <b>YAO Xiaoxue</b>  | <p><u>WANG Zuankai</u>, <u>WANG Steven</u>, #<u>LING Chen</u>, #<u>YAO Xiaoxue</u>, #<u>WANG Hongbo</u>, Gold Medal with Congratulations of the Jury at 2022 Inventions Geneva Evaluation Days, The project "Fog-to-electricity Generator with Ultra-high Power Density" received the Gold Medal with Congratulations of the Jury at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention.</p> <p>The research team of the winning project has founded a start-up, which is supported by CityU's flagship entrepreneurship programme HK Tech 300, to transfer the technology into actual application.</p> <p>The research team has introduced the first-ever fog-powered green generator for harvesting energy and freshwater from moisture. It combines a newly developed high-power density droplet-based energy generator (DEG) with a nature-inspired, superhydrophobic fog harvesting mesh. This new technology can produce a record-high power (300 V), with a water collection rate of approximately 250 litre per square meter per day. This dual electricity generator and fog harvester has the highest fogbased energy-conversion efficiency reported to date. It provides a sustainable, stable, low-cost,</p>  |

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|  | portable, and eco-friendly power supply solution, while simultaneously tackling the freshwater crisis in many major cities and areas., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022.  |
|  | # <u>YAO Xiaoxue</u> , The 7th Hong Kong University Student Innovation and Entrepreneurship Competition Merit Prize, Fog-Powered Green Generator, The 7th Hong Kong University Student Innovation and Entrepreneurship Competition, HKNGCA Innovation & Entrepreneurship Centre, 01 November 2021.  |
| <b>ZHANG Huanhuan</b>                                | # <u>ZHANG Huanhuan</u> , <i>Self-shooting of Freezing Droplets</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 30 August 2021.   |
| <b>ZHANG Jiazhi</b>                                  | # <u>ZHANG Jiazhi</u> , <i>Investigation on the Design and Strength-Ductility Enhancement of Plain Quenching-Partitioning-Tempering Steel</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 20 December 2021.   |
| <b>ZHANG Jingyang</b>                                | # <u>ZHANG Jingyang</u> , <i>Development of Strong yet Ductile Chemically Complex Metallic Films Based on Structural and Chemical Design at the Nanoscale</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 24 June 2022.   |
| <b>ZHANG Wenqiang</b>                                | # <u>ZHANG Wenqiang</u> , <i>Solid-Liquid Microlattice Metamaterials and Their Multifunctional Applications</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 17 November 2021.   |
| <b>ZHOU Jun</b>                                      | # <u>ZHOU Jun</u> , <i>Metal Organic Frameworks Derived Hierarchical Composite Materials for High Performance Lithium Sulfur Batteries</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 06 January 2022.   |
| <b>ZHOU Yongsen</b>                                  | # <u>ZHOU Yongsen</u> , <i>Study and Fabrication of Adhesives with Strong and Tunable Underwater Adhesion via Photochemistry and Catechol Chemistry</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 05 August 2021.   |
| <b>ZHOU Ziqing</b>                                   | # <u>ZHOU Ziqing</u> , <i>Machine Learning Guided Phase Design for Compositionally Complex Alloys: From High Entropy Alloys to Metallic Glasses</i> , PhD Thesis, Department of Mechanical Engineering, City University of Hong Kong, Hong Kong, PRC, 21 June 2022.   |
| <b>College of Liberal Arts and Social Sciences</b>   |   |
| <b>DEPARTMENT OF ASIAN AND INTERNATIONAL STUDIES</b> |   |
| <b>Scholarly books, monographs and chapters</b>      |   |
| <b>AGOJO Kevin Nielsen Magat</b>                     | <u>QUIÑANOLA Allan G.</u> , # <u>AGOJO Kevin Nielsen Magat</u> , "Cebu Province - Clients as Brokers", <i>Patronage Democracy in the Philippines - Clans, Clients, and Competition in Local Elections</i> , Calimbahin Cleo Anne A. and Teehankee Julio C. (eds), Ateneo de Manila University Press, ISBN: 9786214481644, 2022, pp 217-234.   |
| <b>GORSKI Jędrzej</b>                                | <u>CHAISSÉ Julien Laurent</u> , # <u>GORSKI Jędrzej</u> , SEJKO Dini, Editor, <i>Regulation of State-Controlled Enterprises - An Interdisciplinary and Comparative Examination</i> , 1st edition, Springer Singapore, ISBN: 978-981-19-1367-9, 978-981-19-1368-6, Singapore, 2022, 714 p.<br><u>WOOD Geoffrey</u> , <u>METE Gökçe</u> , # <u>GORSKI Jędrzej</u> , Editor, <i>The Palgrave Handbook of Social License to Operate and Energy Transitions</i> , Palgrave Macmillan, ISBN: 978-3-030-74725-1, Cham, May 2022. |
| <b>Journal publications</b>                          |   |
| <b>MCDERMOTT Gerard Brian</b>                        | # <u>MCDERMOTT Gerard Brian</u> , "The Beginnings of Conflict Transformation in South Thailand", <i>Peace Review</i> , 07 October 2021, doi: <a href="https://doi.org/10.1080/10402659.2021.1953811">https://doi.org/10.1080/10402659.2021.1953811</a> .  |
| <b>Conference papers</b>                             |   |



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| <b>LEGGERI Alexis Lucien Didier</b>             | #LEGGERI Alexis Lucien Didier, "The unbearable 'complexity' of being: Altered cognitive landscapes and change under complexity in EU-China relations", <i>63rd International Studies Association Annual Convention (ISA 2022)</i> , Hybrid, Nashville, United States, 28 March - 02 April 2022.  |
| <b>LIU Peng</b>                                 | #LIU Peng, STARRS Sean Kenji, "Chinese Firms in the Fortune 500 Are Not Internationally Competitive: Explaining What Constrains Chinese Economic Power", <i>POLIS Political Economy Research Group 'work-in-progress' workshop 'Political Economy after the Covid Crisis Shifting research agendas'</i> , University of Birmingham, Birmingham, United Kingdom, 15-16 June 2022. |
| <b>All other outputs</b>                        |  |
| <b>CARMINATI Daniele</b>                        | #CARMINATI Daniele, <i>Soft Power Battlegrounds: China and Japan's Strategies of Attraction and Influence in Southeast Asia</i> , PhD Thesis, Department of Asian and International Studies, City University of Hong Kong, Hong Kong, PRC, 07 March 2022.  |
| <b>GORSKI Jędrzej</b>                           | #GORSKI Jędrzej, Co-Editor, <i>Transnational Dispute Management</i> , October 2021 - October 2021.   |
|   | #GORSKI Jędrzej, ZHAO Yun, Co-Editor, Editor-in-Chief, <i>Maris BV (Publisher)</i> , November 2021 - November 2021.  |
| <b>DEPARTMENT OF CHINESE AND HISTORY</b>        |  |
| <b>Scholarly books, monographs and chapters</b> |  |
| <b>XU Yuji</b>                                  | #XU Yuji, "虹口的芥川龙之介", <i>虹口源</i> , 李天纲 and 王启元 (eds), 上海人民出版社, ISBN: 9787208170964, 上海, August 2021, pp 148-159.   |
| <b>Journal publications</b>                     |  |
| <b>FAN Chen</b>                                 | #FAN Chen, LONG Yanghuan, "The Secularization of Religious Figures: A Study of Mahoraga in the Song Dynasty (960–1279)", <i>Religions</i> , 13(2), 17 February 2022, doi: <a href="https://doi.org/10.3390/rel13020177">https://doi.org/10.3390/rel13020177</a> .  |
| <b>JIANG Ouyue</b>                              | #JIANG Ouyue, "周亮工与清初南京文化——以陈开虞本《江宁府志》的纂修为例", <i>图书馆杂志</i> , 40(9), September 2021, pp 130-136, doi: <a href="https://doi.org/10.13663/j.cnki.lj.2021.09.017">https://doi.org/10.13663/j.cnki.lj.2021.09.017</a> .   |
|   | #JIANG Ouyue, "康熙《江宁府志》(陈开虞本)对凤凰台的重塑与清初文化重建", <i>晨刊</i> , 2022(3), 2022, pp 40-45.   |
| <b>TAN Jing</b>                                 | #TAN Jing, "英国汉学界“中国戏剧”观念的发生及其历史语境——基于元杂剧《老生儿》德底时译本相关书评的考察", <i>舞台艺术 (戏曲·戏剧)</i> , (2), April 2022, pp 33-43.  |
|   | #TAN Jing, 程芸, "20 世纪初英国人类学家威廉·里奇韦的中国戏剧研究", <i>文化遗产</i> , 2021 年(6 (总第 75)), 20 November 2021, pp 66-74.   |
|   | CHENG Yun, #TAN Jing, "英国汉学界“中国戏剧”观念的发生及其历史语境: 基于元杂剧《老生儿》德底时译本相关书评的考察", <i>长江学术</i> , 2021 年(4 (总第 72)), 15 October 2021, pp 59-69, doi: <a href="https://doi.org/10.19866/j.cnki.cjxs.2021.04.006">https://doi.org/10.19866/j.cnki.cjxs.2021.04.006</a> .   |
| <b>TANG Yilin</b>                               | #TANG Yilin, "从徐志摩评介《尤利西斯》说起", <i>新文学史料</i> , (01), 2022, pp 111-117.  |
| <b>XU Yuji</b>                                  | #XU Yuji, "虹口三书", <i>澎湃号·湃客</i> , 08 May 2022.   |
|   | #XU Yuji, "西西稚感的诗歌", <i>书屋</i> , 2021 年(8 (总第 286 期)), August 2021, pp 57-59.  |
|   | #XU Yuji, "偶遇", <i>城市文藝</i> , ((總第 117 期)), 20 April 2022, pp 14-17.   |
| <b>Conference papers</b>                        |  |
| <b>GUSTAVSSON Rickard Sebastian</b>             | #GUSTAVSSON Rickard Sebastian, "The Chinese Script as the Root of Cultural Order: Xu Kai's Philosophy of Writing", <i>23rd Biennial Conference of the European Association for Chinese Studies, EACS 2021</i> , Leipzig, Germany, 24-27 August 2021.   |

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|   | #GUSTAVSSON Rickard Sebastian, "Building a Structure of Knowledge: The Lexicography of Wang Anshi (1201-1086) and Lu Dian (1042-1102)", <i>Durham History of the Book Conference 2021</i> , Online, 08-09 September 2021.   |
| TAN Jing  | #TAN Jing, "十九世紀初英國的中國戲劇批評與接受語境探析: 以元雜劇《老生兒》英譯本書評為中心", 第四屆“戲曲與俗文學研究”學術研討會, 中山大學, 廣州, China, 14-15 August 2021.  |
| XU Yuji   | #XU Yuji, "稚感的背叛與日常的重塑: 論西西詩歌的香港「抒/書」情", <i>Literature and the Sea</i> , Taipei, Taiwan, 20-22 June 2022.   |
|   | #XU Yuji, "Bring Nanyang to China: Anti-Colonialism, Pan-Asianism, and Su Manshu's Narrative of Extraterritorial Nationalism", <i>118th Annual Pacific Ancient and Modern Language Association Conference (PAMLA 2021)</i> , Sahara Las Vegas Hotel (Virtual), Las Vegas, United States, 11-14 November 2021.   |
| <b>All other outputs</b>                        |   |
| JIANG Ouyue                                     | #JIANG Ouyue, <i>圖繪城市：太平天國之後南京地圖中的城市形象重建</i> , PhD Thesis, Department of Chinese and History, City University of Hong Kong, Hong Kong, PRC, 12 January 2022.  |
| LAM Ho Yin                                      | #LAM Ho Yin, <i>黨項西夏國家形成和發展及其與戰爭的關係</i> , PhD Thesis, Department of Chinese and History, City University of Hong Kong, Hong Kong, PRC, 10 February 2022.  |
| QIN Xue   | #QIN Xue, (Book / Software Review) "以影言志——評吳國坤《昨天今天明天：內地與香港電影的政治、藝術與傳統》", 《二十一世紀》雙月刊, (191), June 2022, pp 150-158.   |
| SHI Yun   | #SHI Yun, <i>跨文化的際遇：芮譯《金瓶梅》研究</i> , PhD Thesis, Department of Chinese and History, City University of Hong Kong, Hong Kong, PRC, 21 July 2021.  |
| TAN Jing  | #TAN Jing, (Book / Software Review) "評 Guojun Wang (王國軍), Staging Personhood: Costuming in Early Qing Drama", <i>漢學研究</i> , 40(2), June 2022.   |
|   | #TAN Jing, (Book / Software Review) "Staging Personhood: Costuming In Early Qing Drama by Guojun Wang", <i>Theatre Journal</i> , 73(4), December 2021, pp 578-580, doi: <a href="https://doi.org/10.1353/tj.2021.0122">https://doi.org/10.1353/tj.2021.0122</a> .   |
| XU Yuji   | #XU Yuji, (Book / Software Review) "白話文的軟肋: 評陳建華《紫羅蘭的魅影：周瘦鵬與上海文學文化·1911-1949》", 《二十一世紀》雙月刊, (187), October 2021, pp 150-158.  |
| <b>DEPARTMENT OF ENGLISH</b>                    |   |
| <b>Scholarly books, monographs and chapters</b> |   |
| JIN Xina  | #JIN Xina, "Learning from Struggle - ESP Teachers' Reflections on Online Teaching", <i>The Use of Technology in English Medium Education</i> , Curle Samantha, Pun Jack K. H. and Yuksel Dogan (eds), Springer, ISBN: 978-3-030-99621-5, 978-3-030-99622-2, Cham, 07 June 2022, pp 39-51.   |
| YU Qianwen                                      | #YU Qianwen, HUANG Qing, "Online Teaching and Academic Resilience During the COVID-19 Pandemic - Lived Experience of College Students in Mainland China", <i>The Use of Technology in English Medium Education</i> , Curle Samantha, Pun Jack K. H. and Yuksel Dogan (eds), Springer, Cham, ISBN: 978-3-030-99621-5, 978-3-030-99622-2, 07 June 2022, pp 25-37.                                       |
| <b>Journal publications</b>                     |   |
| YU Qianwen                                      | PUN Jack, #YU Qianwen, SICUAN Tom Keannu, MACARAEG Michael Angelo G., CIA Joe Marc Pineda, "An Exploratory Study of Cantonese Learning Strategies Amongst Non-Chinese English-Speaking Ethnic Minority University Students in Hong Kong", <i>Frontiers in Psychology</i> , 13, 02 June 2022, doi: <a href="https://doi.org/10.3389/fpsyg.2022.910603">https://doi.org/10.3389/fpsyg.2022.910603</a> . |
|   | #YU Qianwen, "Exploratory findings on the illness narratives of a Chinese online support group for mental health", <i>LSPPC News</i> , (4), January 2022, pp 17-20.   |

## Section A: Publications of PhD Students

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| <b>ZHANG Ranran</b>                              | #ZHANG Ranran, "Cold War Femininities in China and America: National Ideals and Uncontainable Performances in Tennessee Williams's <i>A Streetcar Named Desire</i> and Yang Lufang's <i>Cuckoo Sings Again</i> ", <i>Comparative Drama</i> , 55(4), 17 February 2022, pp 464-489, doi: <a href="https://doi.org/10.1353/cdr.2021.0034">https://doi.org/10.1353/cdr.2021.0034</a> . |
| <b>Conference papers</b>                         |  |
| <b>DAVIES Ffion Mary Rose</b>                    | #DAVIES Ffion Mary Rose, "'I need my life to be real': Trauma Recovery and the Fractured Self in <i>Tell Me Who I Am</i> (2019)", <i>Annual Meeting of the American Comparative Literature Association, ACLA 2022</i> , Virtual, Taipei, Taiwan, 15-18 June 2022.  |
|  | #DAVIES Ffion Mary Rose, "'Murder is chips': Binge Culture and True Crime Narratives in the Digital Age", <i>Popular Culture Association in the South &amp; the American Culture Association in the South Conference (PCAS/ACAS 2021)</i> , Online, New Orleans, United States, 30 September - 02 October 2021.  |
|  | #DAVIES Ffion Mary Rose, "Pulp Frictions: Orientalising the homme fatal in early twentieth-century American crime fiction", <i>52nd National Conference of the Popular Culture Association 2022</i> , Virtual, United States, 13-16 April 2022.  |
|  | #DAVIES Ffion Mary Rose, "The Glass Detective: Marlowe, Memory and Fragile Masculinity", <i>6th Memory, Melancholy &amp; Nostalgia International Interdisciplinary Conference</i> , Online, 09-10 December 2021.   |
| <b>LIU Fenglin</b>                               | #LIU Fenglin, "非物质文化遗产与流行文化语境", pp 85-105.   |
| <b>All other outputs</b>                         |  |
| <b>CHAN Hon Tung</b>                             | #CHAN Hon Tung, <i>A Semantic Study of Citations in Literature Reviews of Information Systems Research Articles Through a Move- and Paradigm-Specific Approach</i> , PhD Thesis, Department of English, City University of Hong Kong, Hong Kong, PRC, 02 August 2021.  |
| <b>HUANG Qing</b>                                | #HUANG Qing, <i>Designing an ESP Course on Engagement in Nursing Communication: A Study of Nursing College Students in Mainland China</i> , PhD Thesis, Department of English, City University of Hong Kong, Hong Kong, PRC, 26 October 2021.  |
| <b>XIA Sichen</b>                                | #XIA Sichen, <i>Popularizing Science in the Digital Era: A Multimodal Genre Analysis of TED Talk Videos</i> , PhD Thesis, Department of English, City University of Hong Kong, Hong Kong, PRC, 21 July 2021.   |
| <b>ZHANG Ranran</b>                              | #ZHANG Ranran, (Book / Software Review) " <i>In Between Subjects: A Critical Genealogy of Queer Performance</i> . By Amelia Jones (Book Review)", <i>TDR/The Drama Review</i> , 66(1), 01 March 2022, pp 179-181, doi: <a href="https://doi.org/10.1017/S105420432100085X">https://doi.org/10.1017/S105420432100085X</a> .   |
| <b>DEPARTMENT OF LINGUISTICS AND TRANSLATION</b> |  |
| <b>Journal publications</b>                      |  |
| <b>FU Sijing</b>                                 | #FU Sijing, CHAN Yuet Hung Cecilia, "基于语料库的中国学生习得英语虚化动词搭配语的研究", <i>语言教育</i> , 10(1 (总第 36 期)), February 2022, pp 52-65.  |
| <b>GUO Zhongwei</b>                              | #GUO Zhongwei, "文墨相輝: 刻石文的語譯與域外之音", <i>或問</i> , (41), 30 June 2022, pp 63-74.  |
| <b>HE Juan</b>                                   | #HE Juan, "Sharing emotions or/and making allies: emoji's interpersonal function in Chinese social media news comments", <i>Social Semiotics</i> , 17 January 2022, doi: <a href="https://doi.org/10.1080/10350330.2021.2025355">https://doi.org/10.1080/10350330.2021.2025355</a> .   |
| <b>HE Mosi</b>                                   | #HE Mosi, HE Jianing, "Integration of Perceptual Similarity With Faithful Mapping of Phonological Contrast in Loanword Adaptation: Mandarin Chinese Adaptation of English Stops", <i>Journal of Language Teaching and Research</i> , 13(3), 02 May 2022, pp 541-549, doi: <a href="https://doi.org/10.17507/jltr.1303.10">https://doi.org/10.17507/jltr.1303.10</a> .              |
| <b>KALTENEGGER Sandra</b>                        | RENNER Julia, #KALTENEGGER Sandra, "Discursive constructions of language variation in a Chinese-German eTandem", <i>International Journal of Multilingualism</i> , 24 September 2021, doi: <a href="https://doi.org/10.1080/14790718.2021.1964513">https://doi.org/10.1080/14790718.2021.1964513</a> .   |
| <b>LI Bertie Bing</b>                            | #LI Bing, #LIN Qiduo, MAK Hoi Yan, TZENG Jyh-Lang, HUANG Chih-Mao, HUANG Hsu Wen, "Category Exemplar Production Norms for Hong Kong Cantonese: Instance Probabilities and Word Familiarity", <i>Frontiers in Psychology</i> , 12, 09 August 2021, doi:   |

## Section A: Publications of PhD Students

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|--------------------------|---|
|                          | <a href="https://doi.org/10.3389/fpsyg.2021.657706">https://doi.org/10.3389/fpsyg.2021.657706</a> , <a href="https://doi.org/10.3389/fpsyg.2021.657706">https://doi.org/10.3389/fpsyg.2021.657706</a>   |
| <b>LIANG Xiaoyan</b>     | # <a href="#">LIANG Xiaoyan</a> , # <a href="#">WANG Kailun</a> , GYLNN Dominic Stephen, "Translating and publishing French theatre in China", <i>Francosphères</i> , 10(2), 01 December 2021, pp 225-243, doi: <a href="https://doi.org/10.3828/franc.2021.16">https://doi.org/10.3828/franc.2021.16</a> .   |
| <b>LIN Qiduo</b>         | # <a href="#">LI Bing</a> , # <a href="#">LIN Qiduo</a> , <a href="#">MAK Hoi Yan</a> , <a href="#">TZENG Jyh-Lang</a> , HUANG Chih-Mao, <a href="#">HUANG Hsu Wen</a> , "Category Exemplar Production Norms for Hong Kong Cantonese: Instance Probabilities and Word Familiarity", <i>Frontiers in Psychology</i> , 12, 09 August 2021, doi: <a href="https://doi.org/10.3389/fpsyg.2021.657706">https://doi.org/10.3389/fpsyg.2021.657706</a> , <a href="https://doi.org/10.3389/fpsyg.2021.657706">https://doi.org/10.3389/fpsyg.2021.657706</a>   |
| <b>LIU Fengkai</b>       | SHI Zhan, # <a href="#">LIU Fengkai</a> , LAI Chun, JIN Tan, "Enhancing the use of evidence in argumentative writing through collaborative processing of content-based automated writing evaluation feedback", <i>Language Learning &amp; Technology</i> , 10 June 2022, pp 106–128, doi: <a href="https://doi.org/10.125/73481">https://doi.org/10.125/73481</a> .   |
| <b>LUO Kangte</b>        | <a href="#">YAN Xiu</a> , # <a href="#">LUO Kangte</a> , "Introducing Audio Describer Training in University Interpreting Classes", <i>Journal of Visual Impairment and Blindness</i> , 116(3), 01 May 2022, pp 425-432, doi: <a href="https://doi.org/10.1177/0145482X221108996">https://doi.org/10.1177/0145482X221108996</a> .<br><a href="#">YAN Xiu</a> , # <a href="#">LUO Kangte</a> , "Introducing Audio Describer Training in University Interpreting Classes", <i>Journal of Visual Impairment and Blindness</i> , 116(3), May 2022, pp 425-432, doi: <a href="https://doi.org/10.1177/0145482X221108996">https://doi.org/10.1177/0145482X221108996</a> .<br># <a href="#">LUO Kangte</a> , <a href="#">YAN Xiu</a> , "作者口述影像的理论与实践", <i>东方翻译</i> , 2021(4 (总第 72)), August 2021, pp 67-72. |
| <b>MENG Yingying</b>     | <a href="#">KIT Chun Yu</a> , # <a href="#">MENG Yingying</a> , "基于语料库比较的李白杜甫诗歌对比研究", <i>語文建設通訊</i> , (總第 125 期), November 2021, pp 20-33.  |
| <b>MUSUMECI Andrea</b>   | # <a href="#">MUSUMECI Andrea</a> , GYLNN Dominic Stephen, # <a href="#">QU Qifei</a> , "The constraints of translating martial arts fiction", <i>Francosphères</i> , 10(2), 01 December 2021, pp 245–264, doi: <a href="https://doi.org/10.3828/franc.2021.17">https://doi.org/10.3828/franc.2021.17</a> .   |
| <b>QU Qifei</b>          | # <a href="#">MUSUMECI Andrea</a> , GYLNN Dominic Stephen, # <a href="#">QU Qifei</a> , "The constraints of translating martial arts fiction", <i>Francosphères</i> , 10(2), 01 December 2021, pp 245–264, doi: <a href="https://doi.org/10.3828/franc.2021.17">https://doi.org/10.3828/franc.2021.17</a> .   |
| <b>WANG Kailun</b>       | # <a href="#">LIANG Xiaoyan</a> , # <a href="#">WANG Kailun</a> , GYLNN Dominic Stephen, "Translating and publishing French theatre in China", <i>Francosphères</i> , 10(2), 01 December 2021, pp 225-243, doi: <a href="https://doi.org/10.3828/franc.2021.16">https://doi.org/10.3828/franc.2021.16</a> .   |
| <b>XU Tingting</b>       | # <a href="#">XU Tingting</a> , <a href="#">LIU Meichun</a> , WANG Xiaolu, "How humor is experienced: An embodied metaphor account", <i>Current Psychology</i> , 28 February 2022, doi: <a href="https://doi.org/10.1007/s12144-022-02918-1">https://doi.org/10.1007/s12144-022-02918-1</a> .   |
| <b>ZHANG Hui</b>         | # <a href="#">ZHANG Hui</a> , WIENER Seth, HOLT Lori L., "Adjustment of cue weighting in speech by speakers and listeners: Evidence from amplitude and duration modifications of Mandarin Chinese tone", <i>Journal of the Acoustical Society of America</i> , 151(2), February 2022, pp 992-1005, doi: <a href="https://doi.org/10.1121/10.0009378">https://doi.org/10.1121/10.0009378</a> .<br># <a href="#">ZHANG Hui</a> , DING Hongwei, <a href="#">LEE Wai Sum</a> , "The influence of preceding speech and nonspeech contexts on Mandarin tone identification", <i>Journal of Phonetics</i> , 93, 26 May 2022, doi: <a href="https://doi.org/10.1016/j.wocn.2022.101154">https://doi.org/10.1016/j.wocn.2022.101154</a> .  |
| <b>ZHANG Zhuo</b>        | <a href="#">LIU Yao</a> , # <a href="#">ZHANG Zhuo</a> , BAO Yiran, "基于文献的中医经方靶点预测模型研究", <i>中华医学图书情报杂志</i> , 30(9), September 2021, pp 1-12, doi: <a href="https://doi.org/10.3969/j.issn.1671-3982.2021.09.001">https://doi.org/10.3969/j.issn.1671-3982.2021.09.001</a> .   |
| <b>ZHU Siyan</b>         | # <a href="#">ZHU Siyan</a> , GUAN Yihan, <a href="#">LI Bin</a> , "手机录音在语音研究中的可用性和实用性", <i>实验语言学</i> , 11(2), 01 June 2022, pp 76-80.  |
| <b>Conference papers</b> |   |
| <b>DOU Jinmeng</b>       | <a href="#">LIU Meichun</a> , # <a href="#">DOU Jinmeng</a> , "Metaphorical Polysemy of Chinese Color Term hēi 黑 "black": A cognitive semantic analysis based on behavioral profiles", <i>22th Chinese Lexical Semantic Workshop (2021)</i> , Nanjing, China, 16 May 2021.  |

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|-----------------------|--|
| <b>HE Juan</b>        | #HE Juan, "The news values construction across old and new media in Chinese journalism", 第九届“当代中国新话语”国际学术研讨会暨第二届话语研究前沿国际会议 (2021 International Conference on Frontiers in Discourse Studies), Shanghai Jiao Tong University, Shanghai, China, 05-07 November 2021.   |
|                       | #HE Juan, "The emoji-text relationship in Weibo news comments: An appraisal perspective", International Conference on Applicable Linguistics and Appraisal Studies, Shanghai Jiao Tong University (online), Shanghai, China, 17-19 December 2021.  |
| <b>HE Mosi</b>        | #HE Mosi, #ZHANG Ting, LI Bin, "Definiteness of nouns affects realization of word stresses in English by Mandarin speakers", 第十四届中国语音学学术会议 (PCC2021) - 论文集, Lanzhou, China, 18-20 July 2021, pp 445-449.   |
| <b>HE Tianqi</b>      | #HE Tianqi, LIU Meichun, "Cross-Categorial Behaviors of Mandarin Physical Contact Verbs: A Frame-Based Constructional Analysis of qiāodǎ 敲打", Chinese Lexical Semantics - 22nd Workshop, CLSW 2021 Nanjing, China, May 15-16, 2021 Revised Selected Papers, Part I, pp 84-95, (ISBN: 978-3-031-06702-0, 978-3-031-06703-7) |
| <b>LI Bertie Bing</b> | #LIN Qiduo, MAK Hoi Yan, #LI Bing, TZENG Ovid J.L., HUANG Chih-Mao, HUANG Hsu Wen, "Feeling Good but Chilled on Response: Effects of Mild Positive Mood on Cognitive Control", 29th Annual Meeting of Cognitive Neuroscience Society (CNS 2022), San Francisco, United States, 23-26 April 2022.                           |
|                       | MAK Hoi Yan, #LIN Qiduo, #LI Bing, TZENG Ovid J.L., HUANG Hsu Wen, "The N100 Predicts Learning Performance of Visual Statistical Learning", 29th Annual Meeting of Cognitive Neuroscience Society (CNS 2022), San Francisco, United States, 23-26 April 2022.  |
|                       | #LI Bing, #LIN Qiduo, MAK Hoi Yan, TZENG Ovid J.L., HUANG Chih-Mao, HUANG Hsu Wen, "Linking Openness to Real-time Processing of Categorical and Featural Semantic Associations", 29th Annual Meeting of Cognitive Neuroscience Society (CNS 2022), San Francisco, United States, 23-26 April 2022.                         |
| <b>LIANG Yuyan</b>    | LIU Meichun, #LIANG Yuyan, #WAN Yuwei, "Novel Lexical Semantic Change and Interactivization".  |
| <b>LIN Qiduo</b>      | #LIN Qiduo, MAK Hoi Yan, #LI Bing, TZENG Ovid J.L., HUANG Chih-Mao, HUANG Hsu Wen, "Feeling Good but Chilled on Response: Effects of Mild Positive Mood on Cognitive Control", 29th Annual Meeting of Cognitive Neuroscience Society (CNS 2022), San Francisco, United States, 23-26 April 2022.                           |
|                       | MAK Hoi Yan, #LIN Qiduo, #LI Bing, TZENG Ovid J.L., HUANG Hsu Wen, "The N100 Predicts Learning Performance of Visual Statistical Learning", 29th Annual Meeting of Cognitive Neuroscience Society (CNS 2022), San Francisco, United States, 23-26 April 2022.  |
|                       | #LI Bing, #LIN Qiduo, MAK Hoi Yan, TZENG Ovid J.L., HUANG Chih-Mao, HUANG Hsu Wen, "Linking Openness to Real-time Processing of Categorical and Featural Semantic Associations", 29th Annual Meeting of Cognitive Neuroscience Society (CNS 2022), San Francisco, United States, 23-26 April 2022.                         |
| <b>LIN Qiuhan</b>     | YUAN Jingting, #LIN Qiuhan, LEE John Sie Yuen, "Discourse Tree Structure and Dependency Distance in EFL Writing", Proceedings of the 20th International Workshop on Treebanks and Linguistic Theories (TLT, SyntaxFest 2021), Online, Sofia, Bulgaria, 21-25 March 2022, pp 105-115, (ISBN: 978-1-955917-16-2).            |
|                       | #LIN Qiuhan, "Investigating the Impact of Written Feedback: Mood and Modal Verbs on L2 Student Revision Outcome", Proceedings of REMLing 2022 - The Hongkong-Beijing-Lancaster Symposium on Research Methodologies for PhD Studies in Linguistics, Zoom, Hong Kong, 17-18 March 2022, pp 62-73.                            |
| <b>LUO Kangte</b>     | YAN Xiu, #LUO Kangte, "Evaluation of audio description learning: A user-centred approach", Language Service, Audio Description and Translation Studies, Hong Kong, 16-18 June 2022, pp 28-28.  |
|                       | YAN Xiu, #LUO Kangte, "Audio description and interpreting training: A comparison of assessment criteria from the perspective of learners", The 1st UK-China Symposium on   |

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|------------------------|---|
|                        | <p><i>Translation Studies</i>, University of Leeds, Leeds, United Kingdom, 16-17 August 2021, pp 30-31.</p> <p>#<a href="#">LUO Kangte</a>, <a href="#">YAN Xiu</a>, "Audio Description in Kung Fu Scenes: A Case Study of An Auteur Description Production in Hong Kong", <i>Unlimited! 3 Innovation for Access: New Interactions</i>, Online, Antwerp, Belgium, 11 February 2022.</p> <p><a href="#">YAN Xiu</a>, #<a href="#">LUO Kangte</a>, "Implementing Audio Description Training in Interpreting Programs: A Quality Assessment Perspective", <i>APTIS 2021 Conference: 'Evolving Profiles: The Future of Translation and Interpreting Training'</i>, Dublin City University, Dublin, Ireland, 18-19 November 2021, pp 16-17.</p> <p>#<a href="#">LUO Kangte</a>, <a href="#">YAN Xiu</a>, "Convergences and Divergences Between Audio Description and Interpreting: a Learner Perception Perspective", <i>新起点翻译传译认知国际研讨会暨中国翻译认知研究会第八届大会</i>, Online, Hunan, China, 17-19 September 2021, pp 58-59.</p> <p><a href="#">YAN Xiu</a>, #<a href="#">LUO Kangte</a>, "Audio Description Training in a Tertiary Interpreting Program in Hong Kong", <i>Language &amp; the Media 2021</i>, Online, Berlin, Germany, 20-24 September 2021, pp 95-95.</p> <p>#<a href="#">LUO Kangte</a>, <a href="#">YAN Xiu</a>, "Evaluating Audio Description Performance of Students in Interpreting Classes", <i>International Symposium on Translation and Interpreting as Social Interaction</i>, Online, 17-18 July 2021, pp 42.</p> |
| <b>MUSUMECI Andrea</b> | # <a href="#">MUSUMECI Andrea</a> , "Qualitative Methods in Translation Pedagogy: Implications from an Action Research Pilot Study", <i>Proceedings of REM Ling 2022 - The Hongkong-Beijing-Lancaster Symposium on Research Methodologies for PhD Studies in Linguistics</i> , Zoom, Hong Kong, 17-18 March 2022, pp 108-114.   |
| <b>WAN Yuwei</b>       | <a href="#">LIU Meichun</a> , # <a href="#">LIANG Yuyan</a> , # <a href="#">WAN Yuwei</a> , "Novel Lexical Semantic Change and Interactivization".  |
| <b>WANG Kailun</b>     | # <a href="#">WANG Kailun</a> , <a href="#">YAN Xiu</a> , "Creative Treason in Lyrics Translation: An Examination of the Cantonese Version of the Musical Fiddler on the Roof", <i>The 4th East Asian Translation Studies Conference</i> , Université Paris Cité, campus des Grands Moulins, Paris, France, 30 June - 02 July 2022.   |
| <b>WANG Shuting</b>    | # <a href="#">WANG Shuting</a> , <a href="#">YAN Xiu</a> , "Culture-specific items in translation: A study of the Cantonese Opera <i>The Flower Princess</i> ", <i>2022 CHINOPERL Conference</i> , Hilton Hawaiian Village - Tapa Conference Center, Honolulu, United States, 25 March - 02 April 2022.   |
| <b>XU Tingting</b>     | <a href="#">XUE Wenting</a> , <a href="#">LIU Meichun</a> , <a href="#">POLITZER-AHLES Stephen</a> , <a href="#">TZENG Jyh-Lang</a> , # <a href="#">XU Tingting</a> , "The potential source of the processing difficulty of complement coercion: A self-paced reading study in Mandarin Chinese", <i>28th Annual Conference of the International Association of Chinese Linguistics (IACL-28)</i> , The Chinese University of Hong Kong (Zoom), Hong Kong, China, 20-22 May 2022.   |
| <b>YU Mingyang</b>     | # <a href="#">YU Mingyang</a> , <a href="#">CHAN Yuet Hung Cecilia</a> , "A Survey of Chinese Character Learning Strategy in Learning Chinese as a Foreign Language", <i>3rd International Symposium of the European Association of Chinese Teaching (EACT)</i> , University of Minho, Braga, Portugal, 29-30 October 2021, pp 49-50.   |
| <b>ZHANG Ting</b>      | # <a href="#">HE Mosi</a> , # <a href="#">ZHANG Ting</a> , <a href="#">LI Bin</a> , "Definiteness of nouns affects realization of word stresses in English by Mandarin speakers", <i>第十四届中国语音学学术会议 (PCC2021) - 论文合集</i> , Lanzhou, China, 18-20 July 2021, pp 445-449.  |
| <b>ZHANG Xiaopei</b>   | # <a href="#">ZHANG Xiaopei</a> , <a href="#">LIU Meichun</a> , "A constructional account for DP-Incorporation in Mandarin", <i>28th Annual Conference of the International Association of Chinese Linguistics (IACL-28)</i> , The Chinese University of Hong Kong (Zoom), Hong Kong, China, 20-22 May 2022.  |
| <b>ZHANG Zhuo</b>      | <a href="#">LIU Meichun</a> , # <a href="#">ZHANG Zhuo</a> , "Exploring the role of verb frames in assessing semantic difficulty", <i>ExLing 2021 - Proceedings of 12th International Conference of Experimental Linguistics</i> , University of Athens, Athens, Greece, 11-13 October 2021, pp 153-156.  |
| <b>ZHAO Hang</b>       | # <a href="#">ZHAO Hang</a> , <a href="#">YAN Xiu</a> , "Linguistic Features of Interpretese: A Corpus-based Analysis of Chinese-English Interpreting Products", <i>1st UK-China Symposium on Translation Studies</i> , Online, 16-17 August 2021, pp 45-46.  |

Section A: Publications of PhD Students

| <b>Creative and literary works, consulting reports and case studies</b> |   |
|---|---|
| <b>MUSUMECI Andrea</b>  | # <u>MUSUMECI Andrea</u> , "The Legend of Ai Glatson", <i>Halfway Home XII</i> , City University of Hong Kong, 2022.  |
| <b>All other outputs</b>  |   |
| <b>GAO Qingyu</b>   | # <u>GAO Qingyu</u> , <i>A Psycholinguistic and Corpus-based Study of Chunk: Ontology and Pedagogical Application in TCSL</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 01 September 2021.   |
| <b>GUO Zhongwei</b>   | # <u>GUO Zhongwei</u> , "書の道", 香港城市文藝出版社, Hong Kong, 20 June 2022, 129 p.   |
| <b>HE Juan</b>  | # <u>HE Juan</u> , <i>Weibo News Package: A Systemic Functional Perspective on the Text-Reader Relationship</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 30 December 2021.<br># <u>HE Juan</u> , Dr. Jennifer Cheung Postgraduate Awards, November 2021.  |
| <b>LI Bertie Bing</b>   | # <u>LI Bing</u> , <i>The Cognitive Processing of Categorical and Featural Semantic Associations: An Event-Related Potential Study of Hong Kong Cantonese</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 15 June 2022.  |
| <b>TAO Guoxiao</b>  | # <u>TAO Guoxiao</u> , <i>A Developmental Study of Prepositional Phrases in English L1 Students' Academic Writing</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 17 March 2022.   |
| <b>WANG Xuan</b>  | # <u>WANG Xuan</u> , <i>Multimodal Discourse Analysis on Online Philanthropic Fundraising Discourse: A Systemic Functional Perspective</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 29 November 2021.   |
| <b>XUE Wenting</b>  | # <u>XUE Wenting</u> , <i>Complement Coercion with Enriched Composition: Evidence from Real-Time Sentence Processing in Mandarin Chinese</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 07 January 2022.  |
| <b>YANG Jiaming</b>   | # <u>YANG Jiaming</u> , <i>A Cognitive Linguistic Study of Conceptual Mappings and Integrations in Chinese Ceramic Texts</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 07 January 2022.  |
| <b>YE Yingying</b>  | # <u>YE Yingying</u> , <i>Form-Meaning Mapping Relations in Chinese Noun Phrases: A Construction-Based Functional Analysis</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 13 September 2021.  |
| <b>YUAN Zhen</b>  | # <u>YUAN Zhen</u> , <i>A Study on the Literary Translations in Hong Kong Periodicals in the Early Twentieth Century</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 01 September 2021.  |
| <b>ZHANG Hui</b>  | # <u>ZHANG Hui</u> , (Book / Software Review) "The Handbook of Language and Speech Disorders", <i>Journal of the Acoustical Society of America</i> , 151(4), April 2022, pp 2647.   |
| <b>ZHONG Qian</b>   | # <u>ZHONG Qian</u> , <i>A Linguistically Intelligent Approach to Detecting Implicit Discourse Relations in Natural Texts</i> , PhD Thesis, Department of Linguistics and Translation, City University of Hong Kong, Hong Kong, PRC, 06 July 2021.  |
| <b>DEPARTMENT OF MEDIA AND COMMUNICATION</b>                            |   |
| <b>Journal publications</b>   |   |
| <b>CAI Qinxian</b>  | # <u>LIU Ruoheng</u> , <u>HUANG Yi-hui</u> , # <u>SUN Jie</u> , # <u>LAU Jennifer</u> , # <u>CAI Qinxian</u> , "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>International Journal of Environmental Research and Public Health</i> , 19(6), 20 March 2022, doi: <a href="https://doi.org/10.3390/ijerph19063705">https://doi.org/10.3390/ijerph19063705</a> .<br># <u>HUANG Yi-hui</u> , # <u>CAI Qinxian</u> , "Negotiating Disciplines: A Model of Integrative Public Relations from a Conflict-Resolution Perspective", <i>Negotiation and Conflict Management Research</i> , 15(2), 14 April 2022, pp 78-99, doi: <a href="https://doi.org/10.34891/20220413-581">https://doi.org/10.34891/20220413-581</a> . |
| <b>CHEN Zhicong</b>   | HAMAMURA Takeshi, # <u>CHEN Zhicong</u> , CHAN Christian S., CHEN Sylvia Xiaohua, <u>KOBAYASHI Tetsuro</u> , "Individualism With Chinese Characteristics? Discerning Cultural Shifts in China Using 50 Years of Printed Texts", <i>American Psychologist</i> , 76(6), September 2021, pp 888-903, doi: <a href="https://doi.org/10.1037/amp0000840">https://doi.org/10.1037/amp0000840</a> .<br># <u>CHEN Zhicong</u> , JARDINE Eric, <u>LIU Xiaofan</u> , <u>ZHU Jian Hua Jonathan</u> , "Seeking anonymity on the Internet: The knowledge accumulation process and global usage of the Tor  |

Section A: Publications of PhD Students

|                              |   |
|------------------------------|---|
|                              | network", <i>New Media and Society</i> , 30 January 2022, doi: <a href="https://doi.org/10.1177/14614448211072201">https://doi.org/10.1177/14614448211072201</a> .  |
| <b>CHU Tsz Hang</b>          | <a href="#">JIANG Li Crystal</a> , <a href="#">#CHU Tsz Hang</a> , SUN Mengru, "Characterization of Vaccine Tweets During the Early Stage of the COVID-19 Outbreak in the United States: Topic Modeling Analysis", <i>JMIR Infodemiology</i> , 1(1), 14 September 2021, doi: <a href="https://doi.org/10.2196/25636">https://doi.org/10.2196/25636</a> .  |
|                              | <a href="#">#CHU Tsz Hang</a> , YEO Tien Ee Dominic, SU Youzhen, "Effects of Exposure to COVID-19 News and Information: A Meta-Analysis of Media Use and Uncertainty-Related Responses During the Pandemic", <i>Journalism &amp; Mass Communication Quarterly</i> , 99(1), 04 January 2022, pp 89–112, doi: <a href="https://doi.org/10.1177/10776990211068857">https://doi.org/10.1177/10776990211068857</a> .   |
| <b>DAVIDSON Brenna Marie</b> | <a href="#">#DAVIDSON Brenna Marie</a> , <a href="#">KOBAYASHI Tetsuro</a> , "The effect of message modality on memory for political disinformation: Lessons from the 2021 U.S capitol riots", <i>Computers in Human Behavior</i> , 132, 22 February 2022, doi: <a href="https://doi.org/10.1016/j.chb.2022.107241">https://doi.org/10.1016/j.chb.2022.107241</a> .   |
| <b>FU Lunrui</b>             | <a href="#">DAI Yue</a> , <a href="#">#JIA Wufan</a> , <a href="#">#FU Lunrui</a> , SUN Mengru, <a href="#">JIANG Li Crystal</a> , "The effects of self-generated and other-generated eWOM in inoculating against misinformation", <i>Telematics and Informatics</i> , 71, 11 May 2022, doi: <a href="https://doi.org/10.1016/j.tele.2022.101835">https://doi.org/10.1016/j.tele.2022.101835</a> .  |
|                              | CHEN Liang, LIU Yi, JIANG Xiaoyuan, <a href="#">#FU Lunrui</a> , ZHU Yiwei, "How does media attention affect parental response behaviors to telecommunication fraud?: Based on the influence of presumed media influence model", <i>Current Psychology</i> , 41(4), 11 February 2022, pp 1728–1739, doi: <a href="https://doi.org/10.1007/s12144-022-02882-w">https://doi.org/10.1007/s12144-022-02882-w</a> .  |
|                              | CHEN Liang, <a href="#">#FU Lunrui</a> , "Let's fight the infodemic: the third-person effect process of misinformation during public health emergencies", <i>Internet Research</i> , 32(4), 14 January 2022, pp 1357-1377, doi: <a href="https://doi.org/10.1108/INTR-03-2021-0194">https://doi.org/10.1108/INTR-03-2021-0194</a> .   |
| <b>HU Bo</b>                 | LI Wu, <a href="#">#HU Bo</a> , "为“陪伴”买单？准社会关系视角下音频知识付费决策研究", <i>现代出版</i> , 2021年(6), 10 December 2021, pp 10-18, doi: <a href="https://doi.org/10.3969/j.issn.2095-0330.2021.06.002">https://doi.org/10.3969/j.issn.2095-0330.2021.06.002</a> .  |
| <b>JIA Wufan</b>             | <a href="#">DAI Yue</a> , <a href="#">#JIA Wufan</a> , <a href="#">#FU Lunrui</a> , SUN Mengru, <a href="#">JIANG Li Crystal</a> , "The effects of self-generated and other-generated eWOM in inoculating against misinformation", <i>Telematics and Informatics</i> , 71, 11 May 2022, doi: <a href="https://doi.org/10.1016/j.tele.2022.101835">https://doi.org/10.1016/j.tele.2022.101835</a> .  |
|                              | <a href="#">DAI Yue</a> , <a href="#">KIM Ji Won</a> , <a href="#">#JIA Wufan</a> , "Health pandemic in the era of (mis)information: Examining the utility of using victim narrative and social endorsement of user-generated content to reduce panic buying in the U.S.", <i>Journal of Applied Communication Research</i> , 01 March 2022, doi: <a href="https://doi.org/10.1080/00909882.2022.2043557">https://doi.org/10.1080/00909882.2022.2043557</a> . |
| <b>LAU Jennifer</b>          | <a href="#">#LIU Ruoheng</a> , HUANG Yi-hui, <a href="#">#SUN Jie</a> , <a href="#">#LAU Jennifer</a> , <a href="#">#CAI Qinxian</a> , "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>International Journal of Environmental Research and Public Health</i> , 19(6), 20 March 2022, doi: <a href="https://doi.org/10.3390/ijerph19063705">https://doi.org/10.3390/ijerph19063705</a> .   |
| <b>LIU Ruoheng</b>           | SHI Yu, <a href="#">#LIU Ruoheng</a> , YU Hongfei, FU Zhihui, GUO Wei, "Sexual debut among college students in China: Effects of family context", <i>Journal of Biosocial Science</i> , 03 November 2021, doi: <a href="https://doi.org/10.1017/S0021932021000523">https://doi.org/10.1017/S0021932021000523</a> .  |
|                              | <a href="#">#LIU Ruoheng</a> , HUANG Yi-hui, <a href="#">#SUN Jie</a> , <a href="#">#LAU Jennifer</a> , <a href="#">#CAI Qinxian</a> , "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>International Journal of Environmental Research and Public Health</i> , 19(6), 20 March 2022, doi: <a href="https://doi.org/10.3390/ijerph19063705">https://doi.org/10.3390/ijerph19063705</a> .   |
| <b>LU Fangcao</b>            | SUN Yanqing, <a href="#">#LU Fangcao</a> , "How Misinformation and Rebuttals in Online Comments Affect People's Intention to Receive COVID-19 Vaccines: The Roles of Psychological Reactance and Misperceptions", <i>Journalism and Mass Communication Quarterly</i> , 31 March 2022, doi: <a href="https://doi.org/10.1177/10776990221084606">https://doi.org/10.1177/10776990221084606</a> .  |
|                              | <a href="#">#LU Fangcao</a> , SUN Yanqing, "COVID-19 vaccine hesitancy: The effects of combining direct and indirect online opinion cues on psychological reactance to health campaigns", <i>Computers in Human Behavior</i> , 127, 22 October 2021, doi: <a href="https://doi.org/10.1016/j.chb.2021.107057">https://doi.org/10.1016/j.chb.2021.107057</a> .   |



Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
|                          | # <a href="#">LU Fangcao</a> , <a href="#">CHIA Chih Yun Stella</a> , "When virtual makeovers become "real": How SNS interactions drive selfie editing and cosmetic surgery", <i>Chinese Journal of Communication</i> , 14 June 2022, doi: <a href="https://doi.org/10.1080/17544750.2022.2085127">https://doi.org/10.1080/17544750.2022.2085127</a> .   |
|                          | <a href="#">CHIA Chih Yun Stella</a> , <a href="#">#LU Fangcao</a> , <a href="#">SUN Yangqing</a> , "Tracking the Influence of Misinformation on Elderly People's Perceptions and Intention to Accept COVID-19 Vaccines", <i>Health Communication</i> , 23 September 2021, doi: <a href="https://doi.org/10.1080/10410236.2021.1980251">https://doi.org/10.1080/10410236.2021.1980251</a> .  |
| <b>MAO Yuanyi</b>        | <a href="#">LI Wu</a> , <a href="#">#MAO Yuanyi</a> , <a href="#">LIU Cong</a> , "Understanding the Intention to Donate Online in the Chinese Context: The Influence of Norms and Trust", <i>Cyberpsychology</i> , 16(1), 02 February 2022, doi: <a href="https://doi.org/10.5817/CP2022-1-7">https://doi.org/10.5817/CP2022-1-7</a> .   |
| <b>MASOOD Muhammad</b>   | <a href="#">AI Minwei</a> , <a href="#">#MASOOD Muhammad</a> , "De-Westernization in journalism research: a content and network analysis of the BRICS journals", <i>Scientometrics</i> , 126(12), 08 November 2021, pp 9477–9498, doi: <a href="https://doi.org/10.1007/s11192-021-04194-5">https://doi.org/10.1007/s11192-021-04194-5</a> .   |
|                          | <a href="#">#MASOOD Muhammad</a> , <a href="#">#MENG Xiang</a> , <a href="#">SKORIC Marko</a> , <a href="#">AHMED Saifuddin</a> , "Trust in Religious Others: A Three-Way Interaction Model of Religious Bias, Informational Use of Digital Media, and Education", <i>International Journal of Communication</i> , 22, 30 June 2022, pp 3402–3421.   |
| <b>MENG Xiang</b>        | <a href="#">#MASOOD Muhammad</a> , <a href="#">#MENG Xiang</a> , <a href="#">SKORIC Marko</a> , <a href="#">AHMED Saifuddin</a> , "Trust in Religious Others: A Three-Way Interaction Model of Religious Bias, Informational Use of Digital Media, and Education", <i>International Journal of Communication</i> , 22, 30 June 2022, pp 3402–3421.   |
| <b>MIN Chen</b>          | <a href="#">CHEN Qiang</a> , <a href="#">ZHANG Yangyi</a> , <a href="#">EVANS Richard</a> , <a href="#">#MIN Chen</a> , "Why Do Citizens Share COVID-19 Fact-Checks Posted by Chinese Government Social Media Accounts? The Elaboration Likelihood Model", <i>International Journal of Environmental Research and Public Health</i> , 18(19), 24 September 2021, doi: <a href="https://doi.org/10.3390/ijerph181910058">https://doi.org/10.3390/ijerph181910058</a> .        |
| <b>OKTAVIANUS Jeffry</b> | <a href="#">#OKTAVIANUS Jeffry</a> , <a href="#">LIN Wan-Ying</a> , "Soliciting Social Support from Migrant Domestic Workers' Connections to Storytelling Networks during a Public Health Crisis", <i>Health Communication</i> , 07 November 2021, doi: <a href="https://doi.org/10.1080/10410236.2021.1996675">https://doi.org/10.1080/10410236.2021.1996675</a> .  |
| <b>SUN Jie</b>           | <a href="#">#LIU Ruoheng</a> , <a href="#">HUANG Yi-hui</a> , <a href="#">#SUN Jie</a> , <a href="#">#LAU Jennifer</a> , <a href="#">#CAI Qinxian</a> , "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>International Journal of Environmental Research and Public Health</i> , 19(6), 20 March 2022, doi: <a href="https://doi.org/10.3390/ijerph19063705">https://doi.org/10.3390/ijerph19063705</a> . |
| <b>SUN Mengru</b>        | <a href="#">HUANG Guanxiong</a> , <a href="#">#SUN Mengru</a> , <a href="#">JIANG Li Crystal</a> , "Core social network size is associated with physical activity participation for fitness app users: The role of social comparison and social support", <i>Computers in Human Behavior</i> , 129, 27 December 2021, doi: <a href="https://doi.org/10.1016/j.chb.2021.107169">https://doi.org/10.1016/j.chb.2021.107169</a> .   |
|                          | <a href="#">#SUN Mengru</a> , <a href="#">JIANG Li Crystal</a> , <a href="#">HUANG Guanxiong</a> , "Improving Body Satisfaction Through Fitness App Use: Explicating the Role of Social Comparison, Social Network Size, and Gender", <i>Health Communication</i> , 29 March 2022, doi: <a href="https://doi.org/10.1080/10410236.2022.2054099">https://doi.org/10.1080/10410236.2022.2054099</a> .  |
|                          | <a href="#">#SUN Mengru</a> , <a href="#">HU Wencai</a> , <a href="#">WU Yun</a> , "Public Perceptions and Attitudes Towards the Application of Artificial Intelligence in Journalism: From a China-based Survey", <i>Journalism Practice</i> , 29 March 2022, doi: <a href="https://doi.org/10.1080/17512786.2022.2055621">https://doi.org/10.1080/17512786.2022.2055621</a> .  |
|                          | <a href="#">#SUN Mengru</a> , <a href="#">WU Yun</a> , "Changing Family Styles in China: The Influence of Traditional Media and Internet Use on the Acceptance of Premarital Cohabitation", <i>The American Journal of Family Therapy</i> , 01 May 2022, doi: <a href="https://doi.org/10.1080/01926187.2022.2068695">https://doi.org/10.1080/01926187.2022.2068695</a> .  |
| <b>TUZOV Viktor</b>      | <a href="#">#TUZOV Viktor</a> , "War or Peace Journalism? Study of Media Coverage by Russian Media Outlets of the Trade War between China and the USA", <i>Central European Journal of Communication</i> , 14(2), 28 December 2021, pp 217-236, doi: <a href="https://doi.org/10.51480/1899-5101.14.2(29).2">https://doi.org/10.51480/1899-5101.14.2(29).2</a> .   |
| <b>YAN Wenjia</b>        | <a href="#">LIU Yu-li</a> , <a href="#">HUANG Luyan</a> , <a href="#">#YAN Wenjia</a> , <a href="#">WANG Xinghan</a> , <a href="#">ZHANG Ruochen</a> , "Privacy in AI and the IoT: The Privacy Concerns of Smart Speaker Users and the Personal Information  |

Section A: Publications of PhD Students

|                          |   |
|--------------------------|---|
|                          | Protection Law in China", <i>Telecommunications Policy</i> , 46(7), 10 March 2022, doi: <a href="https://doi.org/10.1016/j.telpol.2022.102334">https://doi.org/10.1016/j.telpol.2022.102334</a> .   |
| <b>YANG Chun</b>         | # <u>YANG Chun</u> , <u>LIN Fen</u> , "流動的正義建構: 案件型媒體事件的演變 ( 2000–2016 ) ", <i>傳播與社會學刊</i> , (60), April 2022, pp 23-56.  |
| <b>YU Wenting</b>        | # <u>YU Wenting</u> , <u>SHEN Fei</u> , "The relationship between online political participation and privacy protection: evidence from 10 Asian societies of different levels of cybersecurity", <i>Behaviour and Information Technology</i> , 19 July 2021, doi: <a href="https://doi.org/10.1080/0144929X.2021.1953597">https://doi.org/10.1080/0144929X.2021.1953597</a> .   |
|                          | # <u>YU Wenting</u> , <u>SHEN Fei</u> , <u>MIN Chen</u> , "Correcting science misinformation in an authoritarian country: An experiment from China", <i>Telematics and Informatics</i> , 66, 28 November 2021, doi: <a href="https://doi.org/10.1016/j.tele.2021.101749">https://doi.org/10.1016/j.tele.2021.101749</a> .   |
|                          | <u>WANG Tianjiao</u> , # <u>YU Wenting</u> , "Alternative sources use and misinformation exposure and susceptibility: The curvilinear moderation effects of socioeconomic status", <i>Telematics and Informatics</i> , 70, 21 April 2022, doi: <a href="https://doi.org/10.1016/j.tele.2022.101819">https://doi.org/10.1016/j.tele.2022.101819</a> .  |
|                          | <u>SHEN Fei</u> , # <u>YU Wenting</u> , "Reducing political polarization in Hong Kong: A pilot experiment of deliberation", <i>Japanese Journal of Political Science</i> , 22(4), 29 November 2021, pp 233-247, doi: <a href="https://doi.org/10.1017/S1468109921000335">https://doi.org/10.1017/S1468109921000335</a> .  |
| <b>ZHANG Yafei</b>       | <u>GUAN Lu</u> , # <u>ZHANG Yafei</u> , <u>ZHU Jian Hua Jonathan</u> , "Predicting information exposure and continuous consumption: self-level interest similarity, peer-level interest similarity and global popularity", <i>Online Information Review</i> , 46(2), 12 July 2021, pp 337-355, doi: <a href="https://doi.org/10.1108/OIR-10-2020-0475">https://doi.org/10.1108/OIR-10-2020-0475</a> .   |
|                          | # <u>ZHANG Yafei</u> , <u>WANG Lin</u> , <u>ZHU Jian Hua Jonathan</u> , <u>WANG Xiaofan</u> , "The spatial dissemination of COVID-19 and associated socio-economic consequences", <i>Journal of the Royal Society Interface</i> , 19(187), 16 February 2022, doi: <a href="https://doi.org/10.1098/rsif.2021.0662">https://doi.org/10.1098/rsif.2021.0662</a> .   |
| <b>ZHANG Yansong</b>     | <u>HOU Liqi</u> , # <u>ZHANG Yansong</u> , <u>TANG Suqin</u> , <u>TANG Xinfeng</u> , "The loss and return of self: An interpretative phenomenological analysis of coping and recovery from chronic hepatitis B in China", <i>Nursing and Health Sciences</i> , 24(3), 07 June 2022, pp 625-633, doi: <a href="https://doi.org/10.1111/nhs.12963">https://doi.org/10.1111/nhs.12963</a> .  |
|                          | # <u>ZHANG Yansong</u> , <u>SUN Shaojing</u> , "人—算法共生主体: 计算新闻生产网络中的主体创新", <i>编辑之友</i> , (3), March 2022, pp 55-61, doi: <a href="https://doi.org/10.13786/j.cnki.cn14-1066/g2.2022.3.008">https://doi.org/10.13786/j.cnki.cn14-1066/g2.2022.3.008</a> .  |
| <b>Conference papers</b> |   |
| <b>CAI Qinxian</b>       | # <u>LIU Ruoheng</u> , <u>HUANG Yi-hui</u> , # <u>SUN Jie</u> , # <u>LAU Jennifer</u> , # <u>CAI Qinxian</u> , "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>the 72nd Annual Conference of International Communication Association (ICA)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022. |
|                          | <u>HUANG Yi-hui</u> , # <u>SUN Jie</u> , # <u>CAI Qinxian</u> , "To Vax or Not to Vax: The Impact of Issue Interpretation and Trust on Vaccination", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.  |
|                          | <u>HUANG Yi-hui</u> , # <u>CAI Qinxian</u> , # <u>SUN Jie</u> , <u>ZHANG Yue</u> , # <u>LAU Jennifer</u> , <u>LI Yufei</u> , "Value vs. Risk Perception: Which Contributes More to COVID-19 Vaccine Hesitancy?", <i>15th European Sociological Association Conference</i> , Barcelona, Spain, 31 August - 03 September 2021.  |
|                          | # <u>SUN Jie</u> , <u>HUANG Yi-hui</u> , # <u>LIU Ruoheng</u> , # <u>LAU Jennifer</u> , # <u>CAI Qinxian</u> , "Keeping up with the herd: Social comparison, risk, and resilience in COVID-19 era.", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.                       |
|                          | <u>HUANG Yi-hui</u> , <u>LIN Fen</u> , <u>LIN Lauren Yu-Hsin</u> , <u>LEE Jyh-An</u> , <u>SONG Céline Yunya</u> , <u>HE Sylvia Ying</u> , <u>LI Jun</u> , # <u>XIANG Yu</u> , <u>WANG Jianing</u> , # <u>CAI Qinxian</u> , "Towards a Multi-Perspective   |

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|                              | <p>Model of Responsible Innovation Ecosystem (RIE): Trust-Based Autonomous Vehicles (TAVs)", <i>Quality &amp; Productivity Research Conference 2022</i>, San Francisco, United States, 13-16 June 2022.</p> <p>#LIU Ruoheng, HUANG Yi-hui, #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i>, Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.</p> <p>WANG Yuan, HUANG Yi-hui, #CAI Qinxian, "Exploring the Mediating Effect of Government–Public Relationships during the COVID-19 Pandemic: A Model Comparison Approach", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> <p>KIM Ji Won, HUANG Yi-hui, #CAI Qinxian, "How Attribution of Crisis Responsibility Affects Covid-19 Vaccination Intent: The Mediating Mechanism by Institutional Trust and Emotions", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> |
| <b>CHEN Zhicong</b>          | #CHEN Zhicong, #MENG Xiang, #YU Wenting, "Depolarization in the Rise of Far-Right Platforms? A Moderated Mediation Model on Political Identity, Misinformation Belief and Voting Behavior in the 2020 US Presidential Election", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021, pp 24-25.   |
| <b>CHU Tsz Hang</b>          | WANG Sai, #CHU Tsz Hang, HUANG Guanxiong, ZHANG Yidi, "A meta-analysis of credibility perceptions of bandwagon cues", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.   |
| <b>DAVIDSON Brenna Marie</b> | #OKTAVIANUS Jeffry, #DAVIDSON Brenna Marie, GUAN Lu, "Debunking Fake News Together: Analyzing the Practice of Collective Correction to Combat Misinformation", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.  |
| <b>FU Lunrui</b>             | DAI Yue, #JIA Wufan, #FU Lunrui, #SUN Mengru, JIANG Li Crystal, "The Effects of Self-generated and Other-generated eWOM in Inoculating against Misinformation", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.  |
| <b>HU Bo</b>                 | #YAN Wenjia, #HU Bo, LIU Yu-li, "Privacy Fatigue of Smart Speaker Users in China: Exploring the Affecting Factors and Privacy Coping Behaviors", <i>31st European Regional Conference of the International Telecommunications Society (ITS) 2022</i> , Chalmers University of Technology, Gothenburg, Sweden, 20-21 June 2022.  |
|                              | LIU Yu-li, #YAN Wenjia, #HU Bo, #LI Zhuoyang, #LAI Yik Ling, "Exploring How Personalization and Source Expertise of Information from Healthcare Chatbot Affect Users' Health Beliefs and Usage Intention", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021.   |
|                              | LIU Yu-li, #HU Bo, #YAN Wenjia, LIN Zhi, "Chatbots or Humans? Cognition, Affect and Privacy Concerns regarding Usage Intention toward Chatbots: A Comparative Study between Mainland China and Hong Kong", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.  |
| <b>JIA Wufan</b>             | #YU Wenting, #PAYTON Brett, SUN Mengru, #JIA Wufan, HUANG Guanxiong, ZHANG R., "Towards an integrated framework for misinformation and correction sharing: A systematic review across domains", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.  |
|                              | DAI Yue, #JIA Wufan, #FU Lunrui, #SUN Mengru, JIANG Li Crystal, "The Effects of Self-generated and Other-generated eWOM in Inoculating against Misinformation", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt   |

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|                     | Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.   |
| <b>JIANG Mulin</b>  | #JIANG Mulin, <u>KIM Ji Won</u> , "Self-Disclosure as a Coping: How Self-Disclosure Influences Mental Health in Chinese Online Depression Groups", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.   |
| <b>LAU Jennifer</b> | #LIU Ruoheng, <u>HUANG Yi-hui</u> , #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>the 72nd Annual Conference of International Communication Association (ICA)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.      |
|                     | <u>HUANG Yi-hui</u> , #CAI Qinxian, #SUN Jie, ZHANG Yue, #LAU Jennifer, LI Yufei, "Value vs. Risk Perception: Which Contributes More to COVID-19 Vaccine Hesitancy?", <i>15th European Sociological Association Conference</i> , Barcelona, Spain, 31 August - 03 September 2021.  |
|                     | #SUN Jie, <u>HUANG Yi-hui</u> , #LIU Ruoheng, #LAU Jennifer, #CAI Qinxian, "Keeping up with the herd: Social comparison, risk, and resilience in COVID-19 era.", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.                            |
|                     | #LIU Ruoheng, <u>HUANG Yi-hui</u> , #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022. |
| <b>LIU Ruoheng</b>  | #LIU Ruoheng, <u>HUANG Yi-hui</u> , #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>the 72nd Annual Conference of International Communication Association (ICA)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.      |
|                     | #SUN Jie, <u>HUANG Yi-hui</u> , #LIU Ruoheng, #LAU Jennifer, #CAI Qinxian, "Keeping up with the herd: Social comparison, risk, and resilience in COVID-19 era.", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.                            |
|                     | #LIU Ruoheng, <u>HUANG Yi-hui</u> , #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022. |
| <b>LU Fangcao</b>   | <u>SUN Yanqing</u> , #LU Fangcao, "How Misinformation and Its Rebuttals in Online Comments Affect People's Intention to Receive COVID-19 Vaccines: The Role of Psychological Reactance and Misperceptions", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.                          |
|                     | #OKTAVIANUS Jeffry, <u>SUN Yanqing</u> , #LU Fangcao, "The Episodes of Health Crisis Information Response Process Among Migrant Domestic Workers During the COVID-19 Pandemic", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.  |
|                     | #LU Fangcao, <u>SUN Yanqing</u> , "COVID-19 Vaccine Hesitancy: The effects of direct and indirect online opinion cues on psychological reactance toward health campaigns", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.   |
|                     | <u>CHIA Chih Yun Stella</u> , #LU Fangcao, GUNTHER Albert C., "Who Conducts Fact Checking and Does It Matter?: Examining the Antecedents and Consequences of Fact-checking   |

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|                        | Behavior in Hong Kong", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.   |
| <b>MA Cong</b>         | #MA Cong, #PU Jingyi, TANG Jingxin, LIU Xiaofan, HU Daning, "Adaptive Innovation Diffusion: Two-way Spillover Effect of Cryptocurrency and Blockchain Diffusion", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.   |
| <b>MASOOD Muhammad</b> | #MOSKOVLJEVIC Milos, #MASOOD Muhammad, "Alternative Media as Tools of Social Change? Use of Graffiti and Human Bodies during 2019-20 Hong Kong Protests", <i>International Communication Association Annual Conference</i> , Paris, France, 26-30 May 2022.   |
|                        | #TUZOV Viktor, #MASOOD Muhammad, "Is Religious Extremism a Threat to Democracy or Question of Freedom of On-Offline Expression? Exploring Individual and County-Level Predictors From 15 EU States", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022. |
|                        | #MOSKOVLJEVIC Milos, #MASOOD Muhammad, "Battle for The Public Sphere via Alternative Media: Use of Graffiti and Human Bodies during 2019-20 Hong Kong Protests", <i>National Communication Association (NCA) 107th Annual Convention</i> , Washington State Convention Center, Seattle, United States, 18-21 November 2021.   |
|                        | #MASOOD Muhammad, "Expressive social media uses and protest participation: The survey of a politically marginalized group", <i>International Conference on e-Democracy and Open Government (CeDEM) Asia 2021</i> , Singapore, 25-29 October 2021.   |
|                        | #MOSKOVLJEVIC Milos, #MASOOD Muhammad, SKORIC Marko, "Differential Outcomes of Political Meme Exposure and Engagement: A Path Towards Political Trust and Participation", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.   |
|                        | #MOSKOVLJEVIC Milos, #MASOOD Muhammad, "Local (Self)-Governance and Media as Pillars of Democracy: The Case of Southern African Nations", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021, pp 19-20.  |
|                        | #MASOOD Muhammad, #MOSKOVLJEVIC Milos, "Effect of Social Media Political Participation, and Political Disagreement on Political Incivility: A Self-Reported Study from Pakistan", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021.  |
|                        | #TUZOV Viktor, #MASOOD Muhammad, "Do you think Covid-19 is a hoax? Analyzing belief in misinformation about Covid-19 and its predictors across three East Asian societies", <i>Society for Hong Kong Studies - Annual Conference 2022</i> , Hong Kong, Hong Kong, 24-25 June 2022.  |
|                        | #MASOOD Muhammad, #MENG Xiang, #OKTAVIANUS Jeffry, #MOSKOVLJEVIC Milos, ZHANG Nan, SKORIC Marko, "Political Expression, Disagreement, and Incivility on Social Media: The Conditional Role of Social Identity in the Context of Hong Kong".   |
| <b>MENG Xiang</b>      | #MENG Xiang, WANG Yuan, "Exploring the Different Impacts of Facebook and WhatsApp on Generalized Trust: A Quasi-Experimental Study in Hong Kong", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.   |
|                        | #MENG Xiang, WANG Yuan, CHENG Yang, "Exploring the Effects of Dialogic Communication and Employee–Organization Relationships during Crises: Empirical Evidence from the United States and China", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.   |
|                        | #CHEN Zhicong, #MENG Xiang, #YU Wenting, "Depolarization in the Rise of Far-Right Platforms? A Moderated Mediation Model on Political Identity, Misinformation Belief and Voting Behavior in the 2020 US Presidential Election", <i>2021 International</i>  |

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|                           | <p><i>Association for Media and Communication Research Conference (IAMCR 2021)</i>, Online Conference, Nairobi, Kenya, 11-15 July 2021, pp 24-25.</p> <p>#MASOOD Muhammad, #MENG Xiang, #OKTAVIANUS Jeffry, #MOSKOVLJEVIC Milos, ZHANG Nan, SKORIC Marko, "Political Expression, Disagreement, and Incivility on Social Media: The Conditional Role of Social Identity in the Context of Hong Kong".</p> <p>WANG Yuan, #MENG Xiang, CHUI Wing Hong, "Racial Discrimination in Online Media: How Online News and Reader Comments Portray Ethnic Minorities in Hong Kong", <i>72nd Annual International Communication Association Conference (ICA 2022)</i>, Hybrid, Paris, France, 26-30 May 2022.</p>   |
| <b>MIN Chen</b>           | <p>#MIN Chen, WU Yi, SHEN Fei, "Does Online Swearing Mobilize or Demobilize Political Participation?: An Investigation Combining Media Content and Survey Data in Hong Kong", <i>72nd Annual International Communication Association Conference (ICA 2022)</i>, Hybrid, Paris, France, 26-30 May 2022.</p>  |
| <b>MOSKOVLJEVIC Milos</b> | <p>#MOSKOVLJEVIC Milos, "War on the Walls: (Re-)imagining Past and Future Collective Memories through Graffiti and Murals in post-Yugoslavia.", <i>Art and the City: Urban Space, Art and Social Change 2022 conference</i>, Aarhus University, Aarhus, Denmark, 23 June - 27 September 2022.</p> <p>#MOSKOVLJEVIC Milos, KOVAC Veljko, "Paint me as one of your memes - the strategic (mis)use of memes by Serbian politicians?", <i>13th International Media Readings in Moscow . 2021</i>, Lomonosov University, Moscow, Russian Federation, 18-19 November 2021.</p> <p>#MOSKOVLJEVIC Milos, #MASOOD Muhammad, "Alternative Media as Tools of Social Change? Use of Graffiti and Human Bodies during 2019-20 Hong Kong Protests", <i>International Communication Association Annual Conference</i>, Paris, France, 26-30 May 2022.</p> <p>#MOSKOVLJEVIC Milos, #MASOOD Muhammad, SKORIC Marko, "Differential Outcomes of Political Meme Exposure and Engagement: A Path Towards Political Trust and Participation", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> <p>#MOSKOVLJEVIC Milos, #MASOOD Muhammad, "Local (Self)-Governance and Media as Pillars of Democracy: The Case of Southern African Nations", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i>, Online Conference, Nairobi, Kenya, 11-15 July 2021, pp 19-20.</p> <p>#MASOOD Muhammad, #MOSKOVLJEVIC Milos, "Effect of Social Media Political Participation, and Political Disagreement on Political Incivility: A Self-Reported Study from Pakistan", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i>, Online Conference, Nairobi, Kenya, 11-15 July 2021.</p> <p>#MOSKOVLJEVIC Milos, #MASOOD Muhammad, "Battle for The Public Sphere via Alternative Media: Use of Graffiti and Human Bodies during 2019-20 Hong Kong Protests", <i>National Communication Association (NCA) 107th Annual Convention</i>, Washington State Convention Center, Seattle, United States, 18-21 November 2021.</p> <p>#MASOOD Muhammad, #MENG Xiang, #OKTAVIANUS Jeffry, #MOSKOVLJEVIC Milos, ZHANG Nan, SKORIC Marko, "Political Expression, Disagreement, and Incivility on Social Media: The Conditional Role of Social Identity in the Context of Hong Kong".</p> |
| <b>OKTAVIANUS Jeffry</b>  | <p>#OKTAVIANUS Jeffry, "The role of integrated connectedness of community storytelling networks in empowering migrant domestic workers", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> <p>#OKTAVIANUS Jeffry, "Empowering migrant domestic workers during public health crises through integrated connectedness to storytelling networks", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> <p>#OKTAVIANUS Jeffry, SUN Yanqing, #LU Fangcao, "The Episodes of Health Crisis Information Response Process Among Migrant Domestic Workers During the COVID-19 Pandemic", <i>104th Annual Conference of the Association for Education in Journalism and</i></p>   |

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|                     | <p><i>Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> <p>#OKTAVIANUS Jeffry, DEWI Helga Liliani Cakra, "When religion prevails: Examining the religious and mainstream news coverage of Measles-Rubella vaccination in a Muslim nation", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i>, Online Conference, Nairobi, Kenya, 11-15 July 2021.</p> <p>#OKTAVIANUS Jeffry, #DAVIDSON Brenna Marie, GUAN Lu, "Debunking Fake News Together: Analyzing the Practice of Collective Correction to Combat Misinformation", <i>72nd Annual International Communication Association Conference (ICA 2022)</i>, Hybrid, Paris, France, 26-30 May 2022.</p> <p>#MASOOD Muhammad, #MENG Xiang, #OKTAVIANUS Jeffry, #MOSKOVLJEVIC Milos, ZHANG Nan, #SKORIC Marko, "Political Expression, Disagreement, and Incivility on Social Media: The Conditional Role of Social Identity in the Context of Hong Kong".</p>  |
| <b>PAYTON Brett</b> | <p>#YU Wenting, #PAYTON Brett, SUN Mengru, #JIA Wufan, HUANG Guanxiong, ZHANG R., "Towards an integrated framework for misinformation and correction sharing: A systematic review across domains", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i>, Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.</p>  |
| <b>PU Jingyi</b>    | <p>#PU Jingyi, LIU Xiaofan, "To Defend Rights Online: The Roles of Internet Self-efficacy and Privacy Concern in Online Rights-defending Participation", <i>72nd Annual International Communication Association Conference (ICA 2022)</i>, Hybrid, Paris, France, 26-30 May 2022.</p> <p>#MA Cong, #PU Jingyi, TANG Jingxin, LIU Xiaofan, HU Daning, "Adaptive Innovation Diffusion: Two-way Spillover Effect of Cryptocurrency and Blockchain Diffusion", <i>72nd Annual International Communication Association Conference (ICA 2022)</i>, Hybrid, Paris, France, 26-30 May 2022.</p>   |
| <b>SONG Chuling</b> | <p>LIU Yu-li, #SONG Chuling, HUANG Luyan, MA Xiaofen, "Investigation of Factors Influencing People's Adoption of Chatbots for Emotional Support: A Qualitative Study in Hong Kong", <i>72nd Annual International Communication Association Conference (ICA 2022)</i>, Hybrid, Paris, France, 26-30 May 2022.</p>  |
| <b>SUN Jie</b>      | <p>#LIU Ruoheng, HUANG Yi-hui, #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>the 72nd Annual Conference of International Communication Association (ICA)</i>, Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.</p> <p>HUANG Yi-hui, #SUN Jie, #CAI Qinxian, "To Vax or Not to Vax: The Impact of Issue Interpretation and Trust on Vaccination", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i>, Virtual, New Orleans, United States, 04-07 August 2021.</p> <p>HUANG Yi-hui, #CAI Qinxian, #SUN Jie, ZHANG Yue, #LAU Jennifer, LI Yufei, "Value vs. Risk Perception: Which Contributes More to COVID-19 Vaccine Hesitancy?", <i>15th European Sociological Association Conference</i>, Barcelona, Spain, 31 August - 03 September 2021.</p> <p>#SUN Jie, HUANG Yi-hui, #LIU Ruoheng, #LAU Jennifer, #CAI Qinxian, "Keeping up with the herd: Social comparison, risk, and resilience in COVID-19 era.", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i>, Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.</p> <p>#LIU Ruoheng, HUANG Yi-hui, #SUN Jie, #LAU Jennifer, #CAI Qinxian, "A Shot in the Arm for Vaccination Intention: The Media and the Health Belief Model in Three Chinese Societies", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i>, Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.</p> |
| <b>SUN Mengru</b>   | <p>DAI Yue, #JIA Wufan, #FU Lunrui, #SUN Mengru, JIANG Li Crystal, "The Effects of Self-generated and Other-generated eWOM in Inoculating against Misinformation", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i>, Hyatt</p>   |

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| <b>TUZOV Viktor</b> | #TUZOV Viktor, #MASOOD Muhammad, "Is Religious Extremism a Threat to Democracy or Question of Freedom of On-Offline Expression? Exploring Individual and County-Level Predictors From 15 EU States", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022. |
|                     | #TUZOV Viktor, LIN Fen, "A Point of Global Cooperation or Technological Disintegration? Overview of National AI Strategies in China, Germany and Russia", <i>72nd Annual Conference of the International Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.  |
|                     | #TUZOV Viktor, LIN Fen, "Framing AI and Digital Sovereignty – A Survey on National AI Strategies in Russia, Germany and China", <i>116th American Sociological Association Annual Meeting, ASA 2021</i> , Virtual, 06-10 August 2021.   |
|                     | #TUZOV Viktor, "Media coverage of trade war between China and United States by Russian media outlets", <i>104th Annual Conference of the Association for Education in Journalism and Mass Communication (AEJMC 2021)</i> , Virtual, New Orleans, United States, 04-07 August 2021.  |
|                     | #TUZOV Viktor, #MASOOD Muhammad, "Do you think Covid-19 is a hoax? Analyzing belief in misinformation about Covid-19 and its predictors across three East Asian societies", <i>Society for Hong Kong Studies - Annual Conference 2022</i> , Hong Kong, Hong Kong, 24-25 June 2022.  |
| <b>WU Yuheng</b>    | #WU Yuheng, MOU Yi, KIM Ki Joon, "Minority influence in human-machine communication: The effects of source identity and expertise on moral decision-making", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.  |
|                     | DONG Yujie, #WU Yuheng, "Algorithm Transparency in Online Illness Research: A Serial Mediation Model", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.  |
|                     | DONG Yujie, #WU Yuheng, "From Homeland-Mother to Azhong-Brother: A Qualitative Study of Nation Anthropomorphism among Chinese Youths", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.  |
| <b>YAN Wenjia</b>   | #YAN Wenjia, #HU Bo, LIU Yu-li, "Privacy Fatigue of Smart Speaker Users in China: Exploring the Affecting Factors and Privacy Coping Behaviors", <i>31st European Regional Conference of the International Telecommunications Society (ITS) 2022</i> , Chalmers University of Technology, Gothenburg, Sweden, 20-21 June 2022.  |
|                     | LIU Yu-li, #YAN Wenjia, #HU Bo, #LI Zhuoyang, #LAI Yik Ling, "Exploring How Personalization and Source Expertise of Information from Healthcare Chatbot Affect Users' Health Beliefs and Usage Intention", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021.   |
|                     | LIU Yu-li, #HU Bo, #YAN Wenjia, LIN Zhi, "Chatbots or Humans? Cognition, Affect and Privacy Concerns regarding Usage Intention toward Chatbots: A Comparative Study between Mainland China and Hong Kong", <i>72nd Annual International Communication Association Conference (ICA 2022)</i> , Hybrid, Paris, France, 26-30 May 2022.  |
| <b>YU Wenting</b>   | #CHEN Zhicong, #MENG Xiang, #YU Wenting, "Depolarization in the Rise of Far-Right Platforms? A Moderated Mediation Model on Political Identity, Misinformation Belief and Voting Behavior in the 2020 US Presidential Election", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021, pp 24-25.                       |
|                     | #YU Wenting, #PAYTON Brett, SUN Mengru, #JIA Wufan, HUANG Guanxiong, ZHANG R., "Towards an integrated framework for misinformation and correction sharing: A systematic review across domains", <i>72nd Annual Conference of the International</i>  |



Section A: Publications of PhD Students

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|   | <i>Communication Association (ICA 2022)</i> , Hyatt Regency Paris Étoile, Le Palais des Congrès de Paris, Le Méridien Etoile and VIRTUAL, Paris, France, 26-30 May 2022.   |
| <b>ZHI Pei</b>                                  | # <u>ZHI Pei</u> , <u>LIN Fen</u> , <u>SKORIC Marko</u> , ZHANG Nan, "Conventional vs. Contentious: Exploring the relationship between participation in the social movement and voting intention in Hong Kong", <i>7th International Journal of Press/Politics Conference</i> , Online, 13-16 September 2021.  |
| <b>All other outputs</b>                        |  |
| <b>LAN Ji</b>                                   | # <u>LAN Ji</u> , <i>Identifying and Evaluating Causal Relations in Social Science Research Publications on Social Media: A Hypothesis-based Knowledge Graph Approach</i> , PhD Thesis, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 06 July 2021.   |
| <b>LU Fangcao</b>                               | # <u>LU Fangcao</u> , <i>The Influence of Social Media Selfie-Related Activities on Young Women's Beauty Image Concerns</i> , PhD Thesis, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 10 May 2022.  |
|   | # <u>OKTAVIANUS Jeffry</u> , <u>SUN Yanqing</u> , # <u>LU Fangcao</u> , Top Extended Abstract, Graduate Student Interest Group, Association for Education in Journalism and Mass Communication(AEJMC), August 2021.  |
| <b>MENG Xiang</b>                               | # <u>MENG Xiang</u> , <i>Social Media, Civic Attitudes, and Citizen Engagements: A Comparison of Facebook and WhatsApp</i> , PhD Thesis, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 13 September 2021.   |
| <b>OKTAVIANUS Jeffry</b>                        | # <u>OKTAVIANUS Jeffry</u> , <i>Empowering Migrant Domestic Workers through Storytelling Networks in Times of Crises: A Communication Infrastructure Approach</i> , PhD Thesis, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 01 September 2021.  |
|   | # <u>OKTAVIANUS Jeffry</u> , <u>SUN Yanqing</u> , # <u>LU Fangcao</u> , Top Extended Abstract, Graduate Student Interest Group, Association for Education in Journalism and Mass Communication(AEJMC), August 2021.  |
| <b>PAN Feihong</b>                              | <u>WANG Yuan</u> , # <u>PAN Feihong</u> , Top Research Case Award on Chinese Good Stories , Institute for Creative Communication of the Chinese Story, 09 May 2022.  |
| <b>WARUWU Barui Kurniawan</b>                   | # <u>WARUWU Barui Kurniawan</u> , <i>Mediated Family Display: An Ethnography of Migrant Mothers and Transnational Family Practices in a Polymedia Environment</i> , PhD Thesis, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 06 May 2022.  |
| <b>YU Wenting</b>                               | # <u>YU Wenting</u> , NA, PhD Thesis, Department of Media and Communication, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, May 2022.  |
|   | # <u>YU Wenting</u> , <i>News Verification: Conceptualization and Measurement</i> , PhD Thesis, Department of Media and Communication, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 05 May 2022.   |
| <b>ZHANG Yafei</b>                              | # <u>ZHANG Yafei</u> , <i>A Structural and Empirical Analysis of Network-based Diffusion of Information and Virus</i> , PhD Thesis, Department of Media and Communication, City University of Hong Kong, Hong Kong, PRC, 31 March 2022.  |
| <b>DEPARTMENT OF PUBLIC POLICY</b>              |  |
| <b>Scholarly books, monographs and chapters</b> |  |
| <b>CHAN Kwun Hong</b>                           | HO Lawrence Ka-ki, # <u>CHAN Kwun Hong</u> , DEN HEYER Garth, HSU Jen-Shuo, HIRAI Arata, <i>Policing the Police in Asia - Police Oversight in Japan, Hong Kong, and Taiwan</i> , Springer, ISBN: 978-3-030-82980-3,978-3-030-82981-0, Cham, Switzerland, 2021.   |
| <b>Journal publications</b>                     |  |
| <b>CHAN Kwun Hong</b>                           | HO Lawrence Ka-ki, # <u>CHAN Kwun Hong</u> , CHAN Ying-tung, DEN HEYER Garth, HSU Jen-Shuo, HIRAI Arata, "Professionalism versus democracy? Historical and institutional analysis of police oversight mechanisms in three Asian jurisdictions", <i>Crime, Law and Social Change</i> , 77(1), 04 August 2021, pp 1-25, doi: <a href="https://doi.org/10.1007/s10611-021-09981-y">https://doi.org/10.1007/s10611-021-09981-y</a> . |
| <b>CHAPAGAIN Arjun</b>                          | # <u>CHAPAGAIN Arjun</u> , BHOTE Pala, "Swertia chirayita in Nepal Himalayas: Cultivation and Cross Border Trade to China", <i>Himalaya</i> , 40(2), 15 November 2021, pp 134-143, doi: <a href="https://doi.org/10.2218/HIMALAYA.2021.6583">https://doi.org/10.2218/HIMALAYA.2021.6583</a> .  |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
| <b>CHEN Ling</b>     | HE Donghang, #CHEN Ling, "城市土地开发体制中的增长机器与转向", <i>江海学刊</i> , 2022(2 (总第 338 期)), 2022, pp 134-141, 256.   |
| <b>CHEN Wenna</b>    | #CHEN Wenna, #DONG Binzizi, HSIEH Chih Wei, LIU Ning, WALKER Richard M, #WANG Yao, WEN Bo, #WU Peiyi, ZHANG Jiasheng, "Experimental research in the Asia-Pacific region: review and assessment of regional capacity", <i>Asia Pacific Journal of Public Administration</i> , 44(1), 11 August 2021, pp 4-25, doi: <a href="https://doi.org/10.1080/23276665.2021.1945470">https://doi.org/10.1080/23276665.2021.1945470</a> .  |
| <b>CHUI Chun Kit</b> | MO Lai Lan Phyllis, LI Che Lan Linda, CHUNG Siu Wai William, CHAN Ho Mun, #CHUI Chun Kit, LI Kin On, "ESG reporting in Hong Kong", <i>The Journal of the Hong Kong Chartered Governance Institute</i> , 2022, 19 January 2022, pp 12-16.   |
| <b>DONG Binzizi</b>  | #CHEN Wenna, #DONG Binzizi, HSIEH Chih Wei, LIU Ning, WALKER Richard M, #WANG Yao, WEN Bo, #WU Peiyi, ZHANG Jiasheng, "Experimental research in the Asia-Pacific region: review and assessment of regional capacity", <i>Asia Pacific Journal of Public Administration</i> , 44(1), 11 August 2021, pp 4-25, doi: <a href="https://doi.org/10.1080/23276665.2021.1945470">https://doi.org/10.1080/23276665.2021.1945470</a> .  |
|                      | CHEN Wenna, #DONG Binzizi, HSIEH Chih Wei, LEE M Jin, LIU Ning, WALKER Richard M, #WANG Yao, WEN Bo, WEN Wen, WU Peiyi, #WU Xia, ZHANG Jiasheng, "A replication of "an experimental test of the expectancy-disconfirmation theory of citizen satisfaction"", <i>Public Administration</i> , 11 May 2022, doi: <a href="https://doi.org/10.1111/padm.12860">https://doi.org/10.1111/padm.12860</a> .  |
|                      | CHEN Ziyu, #DONG Binzizi, PEI Qing, ZHANG Zhonghao, "The impacts of urban vitality and urban density on innovation: Evidence from China's Greater Bay Area", <i>Habitat International</i> , 119, 28 November 2021, doi: <a href="https://doi.org/10.1016/j.habitatint.2021.102490">https://doi.org/10.1016/j.habitatint.2021.102490</a> .  |
| <b>DU Mengbing</b>   | LYU Chen, LIU Hao, XU Shaodong, YANG Nan, #DU Mengbing, CAI Bofeng, "基于飞行阶段的精细化航空二氧化碳排放因子研究", <i>气候变化研究进展</i> , 18(2), March 2022, pp 196-204.   |
|                      | #DU Mengbing, #HE Li, #ZHAO Mengxue, #WANG Jie, CAO Yu, LI Heng, "Examining the relations of income inequality and carbon productivity: A panel data analysis", <i>Sustainable Production and Consumption</i> , 31, 31 January 2022, pp 249-262, doi: <a href="https://doi.org/10.1016/j.spc.2022.01.027">https://doi.org/10.1016/j.spc.2022.01.027</a> .  |
|                      | ZHANG Li, WU Pengcheng, NIU Muchuan, ZHENG Yixuan, WANG Junxia, DONG Guangxia, ZHANG Zhe, XIE Zixuan, #DU Mengbing, JIANG Hanying, LIU Hui, CAO Libin, PANG Lingyun, LV Chen, LEI Yu, CAI Bofeng, ZHU Yifang, "A systematic assessment of city-level climate change mitigation and air quality improvement in China", <i>Science of the Total Environment</i> , 839, 27 May 2022, doi: <a href="https://doi.org/10.1016/j.scitotenv.2022.156274">https://doi.org/10.1016/j.scitotenv.2022.156274</a> . |
|                      | #DU Mengbing, ZHANG Xiaoling, XIA Lang, CAO Libin, ZHANG Zhe, ZHANG Li, ZHENG Heran, CAI Bofeng, "The China Carbon Watch (CCW) system: A rapid accounting of household carbon emissions in China at the provincial level", <i>Renewable &amp; Sustainable Energy Reviews</i> , 155, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.rser.2021.111825">https://doi.org/10.1016/j.rser.2021.111825</a> .   |
|                      | #YUAN Zhihang, #ZHAO Mengxue, #DU Mengbing, "Price discount of green residential building in China's second-hand housing market: Evidence from Shenzhen", <i>Sustainable Energy Technologies and Assessments</i> , 52(Part B), 01 April 2022, doi: <a href="https://doi.org/10.1016/j.seta.2022.102171">https://doi.org/10.1016/j.seta.2022.102171</a> .   |
| <b>HAN Wenjing</b>   | #HAN Wenjing, ZHANG Zhengfeng, ZHANG Xiaoling, #HE Li, "Farmland rental participation, agricultural productivity, and household income: Evidence from rural China", <i>Land</i> , 10(9), 26 August 2021, doi: <a href="https://doi.org/10.3390/land10090899">https://doi.org/10.3390/land10090899</a> .  |
| <b>HAO Xinyu</b>     | #HAO Xinyu, LIU Guangfu, ZHANG Xiaoling, DONG Liang, "The coevolution mechanism of stakeholder strategies in the recycled resources industry innovation ecosystem: the view of evolutionary game theory", <i>Technological Forecasting and Social Change</i> , 179, 31 March 2022, doi: <a href="https://doi.org/10.1016/j.techfore.2022.121627">https://doi.org/10.1016/j.techfore.2022.121627</a> .  |
|                      | LIU Yanran, TIAN Tingting, #HAO Xinyu, ZHANG Qin, YAO Chengyan, LIU Guangfu, "Promotion of household waste utilization in China: Lessons learnt from three case  |

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|                     | studies", <i>Sustainability (Switzerland)</i> , 13(21), 20 October 2021, doi: <a href="https://doi.org/10.3390/su132111598">https://doi.org/10.3390/su132111598</a> .   |
| <b>HE Li</b>        | # <a href="#">HAN Wenjing</a> , <a href="#">ZHANG Zhengfeng</a> , <a href="#">ZHANG Xiaoling</a> , # <a href="#">HE Li</a> , "Farmland rental participation, agricultural productivity, and household income: Evidence from rural China", <i>Land</i> , 10(9), 26 August 2021, doi: <a href="https://doi.org/10.3390/land10090899">https://doi.org/10.3390/land10090899</a> .   |
|                     | # <a href="#">DU Mengbing</a> , # <a href="#">HE Li</a> , # <a href="#">ZHAO Mengxue</a> , # <a href="#">WANG Jie</a> , <a href="#">CAO Yu</a> , <a href="#">LI Heng</a> , "Examining the relations of income inequality and carbon productivity: A panel data analysis", <i>Sustainable Production and Consumption</i> , 31, 31 January 2022, pp 249-262, doi: <a href="https://doi.org/10.1016/j.spc.2022.01.027">https://doi.org/10.1016/j.spc.2022.01.027</a> . |
|                     | # <a href="#">HE Li</a> , <a href="#">ZHANG Xiaoling</a> , <a href="#">YAN Yaxue</a> , "Heterogeneity of the Environmental Kuznets Curve across Chinese cities: How to dance with 'shackles'?", <i>Ecological Indicators</i> , 130, 27 August 2021, doi: <a href="https://doi.org/10.1016/j.ecolind.2021.108128">https://doi.org/10.1016/j.ecolind.2021.108128</a> .  |
|                     | # <a href="#">HE Li</a> , <a href="#">ZHANG Xiaoling</a> , "The distribution effect of urbanization: Theoretical deduction and evidence from China", <i>Habitat International</i> , 123, 01 April 2022, doi: <a href="https://doi.org/10.1016/j.habitatint.2022.102544">https://doi.org/10.1016/j.habitatint.2022.102544</a> .  |
| <b>LI Kaiqin</b>    | <a href="#">WEN Yingying</a> , <a href="#">ZHANG Xiaoling</a> , # <a href="#">LI Kaiqin</a> , # <a href="#">SUN Wen</a> , <a href="#">ZHENG Haosheng</a> , "Generalized morality and the provision of public goods: The role of social trust and public participation", <i>Habitat International</i> , 125, 01 June 2022, doi: <a href="https://doi.org/10.1016/j.habitatint.2022.102584">https://doi.org/10.1016/j.habitatint.2022.102584</a> .                    |
| <b>LI Mengyan</b>   | # <a href="#">LI Mengyan</a> , <a href="#">ZHAN Shaolei</a> , "区块链赋能新时代腐败治理的作用机理与实践路径", <i>江西社会科学</i> , 41(7 (总第 416)), 25 July 2021, pp 211-218, 256.  |
| <b>LIU Yongshen</b> | <a href="#">YUAN Dinghuan</a> , <a href="#">YAU Yung</a> , <a href="#">HOU Huiying</a> , # <a href="#">LIU Yongshen</a> , "Factors influencing the project duration of urban village redevelopment in contemporary China", <i>Land</i> , 10(7), 05 July 2021, doi: <a href="https://doi.org/10.3390/land10070707">https://doi.org/10.3390/land10070707</a> .  |
| <b>LUO Man</b>      | <a href="#">LI Che Lan Linda</a> , # <a href="#">LUO Man</a> , "超越「聯繫人」角色: 大灣區時代香港的發展機遇", <i>《二十一世紀》雙月刊</i> , (191), June 2022, pp 54-67.   |
| <b>MO Haitong</b>   | # <a href="#">MO Haitong</a> , <a href="#">WEI Zong-cai</a> , "居住环境品质优化下的中国社区规划演变研究——以广州市保障房社区为例", <i>南方建筑</i> , (5), October 2021, pp 38-43, doi: <a href="https://doi.org/10.3969/j.issn.1000-0232.2021.05.005">https://doi.org/10.3969/j.issn.1000-0232.2021.05.005</a> .  |
| <b>SUN Wen</b>      | <a href="#">WEN Yingying</a> , <a href="#">ZHANG Xiaoling</a> , # <a href="#">LI Kaiqin</a> , # <a href="#">SUN Wen</a> , <a href="#">ZHENG Haosheng</a> , "Generalized morality and the provision of public goods: The role of social trust and public participation", <i>Habitat International</i> , 125, 01 June 2022, doi: <a href="https://doi.org/10.1016/j.habitatint.2022.102584">https://doi.org/10.1016/j.habitatint.2022.102584</a> .                    |
|                     | <a href="#">FU Yang</a> , <a href="#">WANG Hongdi</a> , # <a href="#">SUN Wen</a> , <a href="#">ZHANG Xiaoling</a> , "New dimension to green buildings: Turning green into occupant well-being", <i>Buildings</i> , 11(11), 11 November 2021, doi: <a href="https://doi.org/10.3390/buildings11110534">https://doi.org/10.3390/buildings11110534</a> .  |
|                     | # <a href="#">SUN Wen</a> , <a href="#">ZHANG Xiaoling</a> , <a href="#">HAZARIKA Natasha</a> , "Dilemmas of R&D investment risks and sustainability in the clean-tech economy: Evidence from Nasdaq clean edge index components", <i>International Journal of Green Energy</i> , 24 January 2022, doi: <a href="https://doi.org/10.1080/15435075.2021.2023883">https://doi.org/10.1080/15435075.2021.2023883</a> .   |
| <b>TAO Lei</b>      | <a href="#">LIANG Hai-lun</a> , # <a href="#">TAO Lei</a> , <a href="#">WANG Hu-feng</a> , "时空行为大数据何以驱动流动人群的健康治理提升——基于两个实践案例的比较", <i>中国卫生政策研究</i> , 15(5), May 2022, pp 15-23.  |
|                     | <a href="#">WEN Bo</a> , # <a href="#">TAO Lei</a> , "中国情境下公共服务动机的理论构建与绩效转换机制", <i>心理学进展</i> , 30(2), 15 February 2022, pp 239-254, doi: <a href="https://doi.org/10.3724/SP.J.1042.2022.00239">https://doi.org/10.3724/SP.J.1042.2022.00239</a> .  |
|                     | <a href="#">梁海伦</a> , # <a href="#">TAO Lei</a> , "健康乡村建设: 逻辑、任务与路径", <i>卫生经济研究</i> , 39(3), 05 March 2022, doi: <a href="https://doi.org/10.14055/j.cnki.33-1056/f.2022.03.001">https://doi.org/10.14055/j.cnki.33-1056/f.2022.03.001</a> .  |
|                     | # <a href="#">TAO Lei</a> , <a href="#">WEN Bo</a> , "The bedrock of public service motivation among Chinese adolescents: family and school institutions", <i>Journal of Asian Public Policy</i> , 14 December 2021, doi: <a href="https://doi.org/10.1080/17516234.2021.2014641">https://doi.org/10.1080/17516234.2021.2014641</a> .   |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
| <b>TAO Xiafei</b>    | # <b>TAO Xiafei</b> , "流动家庭的育儿、养老功能——基于家庭变迁的现代化和市场化双重视角", <i>深圳社会科学</i> , 5(1), January 2022, pp 72-83.   |
|                      | # <b>TAO Xiafei</b> , "农业转移人口定居意愿的影响因素及机制", <i>北京社会科学</i> , (8), August 2021, pp 98-108, doi: <a href="https://doi.org/10.13262/j.bjsshkxy.bjshkx.210811">https://doi.org/10.13262/j.bjsshkxy.bjshkx.210811</a> .   |
| <b>WAN Jinhan</b>    | GUO Shenghao, <b>WEN Bo</b> , HU Qianqian, KWONG Ying Ho, # <b>WAN Jinhan</b> , "Unraveling the intricate relationship between empowerment role identity and adaptive performance: Evidence from China", <i>CHINESE PUBLIC ADMINISTRATION REVIEW</i> , 13(1-2), 2022, pp 108-119.   |
| <b>WANG Chengwei</b> | WEI Wenchi, # <b>WANG Chengwei</b> , ZHAI Wenkang, LI Wenzhao, "'Honor List' and 'Shame Roll': Quasi-Experimental Evidence of the Effect of Performance Feedback under Political Control", <i>Journal of Public Administration Research and Theory</i> , 18 February 2022, doi: <a href="https://doi.org/10.1093/jopart/muac011">https://doi.org/10.1093/jopart/muac011</a> .   |
| <b>WANG Jie</b>      | YUZHEN Zhang, # <b>WANG Jie</b> , YANG Chen, JIANPING Ye, "An assessment of urban parks distribution from multiple dimensions at the community level: A case study of Beijing", <i>Environmental Impact Assessment Review</i> , 91, 02 September 2021, doi: <a href="https://doi.org/10.1016/j.eiar.2021.106663">https://doi.org/10.1016/j.eiar.2021.106663</a> .   |
|                      | # <b>DU Mengbing</b> , # <b>HE Li</b> , # <b>ZHAO Mengxue</b> , # <b>WANG Jie</b> , CAO Yu, LI Heng, "Examining the relations of income inequality and carbon productivity: A panel data analysis", <i>Sustainable Production and Consumption</i> , 31, 31 January 2022, pp 249-262, doi: <a href="https://doi.org/10.1016/j.spc.2022.01.027">https://doi.org/10.1016/j.spc.2022.01.027</a> .   |
|                      | # <b>WANG Jie</b> , <b>ZHANG Xiaoling</b> , "Land-based urbanization in China: Mismatched land development in the post-financial crisis era", <i>Habitat International</i> , 125, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.habitatint.2022.102598">https://doi.org/10.1016/j.habitatint.2022.102598</a> .  |
| <b>WANG Yao</b>      | # <b>CHEN Wenna</b> , # <b>DONG Binzizi</b> , <b>HSIEH Chih Wei</b> , <b>LIU Ning</b> , <b>WALKER Richard M</b> , # <b>WANG Yao</b> , <b>WEN Bo</b> , # <b>WU Peiyi</b> , <b>ZHANG Jiasheng</b> , "Experimental research in the Asia-Pacific region: review and assessment of regional capacity", <i>Asia Pacific Journal of Public Administration</i> , 44(1), 11 August 2021, pp 4-25, doi: <a href="https://doi.org/10.1080/23276665.2021.1945470">https://doi.org/10.1080/23276665.2021.1945470</a> . |
|                      | <b>CHEN Wenna</b> , # <b>DONG Binzizi</b> , <b>HSIEH Chih Wei</b> , <b>LEE M Jin</b> , <b>LIU Ning</b> , <b>WALKER Richard M</b> , # <b>WANG Yao</b> , <b>WEN Bo</b> , <b>WEN Wen</b> , <b>WU Peiyi</b> , # <b>WU Xia</b> , <b>ZHANG Jiasheng</b> , "A replication of "an experimental test of the expectancy-disconfirmation theory of citizen satisfaction"", <i>Public Administration</i> , 11 May 2022, doi: <a href="https://doi.org/10.1111/padm.12860">https://doi.org/10.1111/padm.12860</a> .    |
| <b>WU Peiyi</b>      | # <b>CHEN Wenna</b> , # <b>DONG Binzizi</b> , <b>HSIEH Chih Wei</b> , <b>LIU Ning</b> , <b>WALKER Richard M</b> , # <b>WANG Yao</b> , <b>WEN Bo</b> , # <b>WU Peiyi</b> , <b>ZHANG Jiasheng</b> , "Experimental research in the Asia-Pacific region: review and assessment of regional capacity", <i>Asia Pacific Journal of Public Administration</i> , 44(1), 11 August 2021, pp 4-25, doi: <a href="https://doi.org/10.1080/23276665.2021.1945470">https://doi.org/10.1080/23276665.2021.1945470</a> . |
| <b>WU Xia</b>        | <b>CHEN Wenna</b> , # <b>DONG Binzizi</b> , <b>HSIEH Chih Wei</b> , <b>LEE M Jin</b> , <b>LIU Ning</b> , <b>WALKER Richard M</b> , # <b>WANG Yao</b> , <b>WEN Bo</b> , <b>WEN Wen</b> , <b>WU Peiyi</b> , # <b>WU Xia</b> , <b>ZHANG Jiasheng</b> , "A replication of "an experimental test of the expectancy-disconfirmation theory of citizen satisfaction"", <i>Public Administration</i> , 11 May 2022, doi: <a href="https://doi.org/10.1111/padm.12860">https://doi.org/10.1111/padm.12860</a> .    |
| <b>XIAO Yujia</b>    | <b>TAN Xiujie</b> , <b>LIU Yishuang</b> , # <b>DONG Hanmin</b> , # <b>XIAO Yujia</b> , <b>ZHAO Zhihui</b> , "The health consequences of greenhouse gas emissions: a potential pathway", <i>Environmental Geochemistry and Health</i> , 07 January 2022, doi: <a href="https://doi.org/10.1007/s10653-021-01142-3">https://doi.org/10.1007/s10653-021-01142-3</a> .  |
| <b>YUAN Zhihang</b>  | # <b>YUAN Zhihang</b> , # <b>ZHAO Mengxue</b> , # <b>DU Mengbing</b> , "Price discount of green residential building in China's second-hand housing market: Evidence from Shenzhen", <i>Sustainable Energy Technologies and Assessments</i> , 52(Part B), 01 April 2022, doi: <a href="https://doi.org/10.1016/j.seta.2022.102171">https://doi.org/10.1016/j.seta.2022.102171</a> .   |
| <b>ZHANG Liyang</b>  | # <b>ZHANG Liyang</b> , <b>XIAO Yajie</b> , <b>WU Qichun</b> , <b>LI Junlin</b> , "Will the use of solid fuels reduce the life satisfaction of rural residents—Evidence from China", <i>Energy for Sustainable Development</i> , 68, 28 March 2022, pp 94-102, doi: <a href="https://doi.org/10.1016/j.esd.2022.03.006">https://doi.org/10.1016/j.esd.2022.03.006</a> .   |

Section A: Publications of PhD Students

|                          |   |
|--------------------------|---|
| <b>ZHANG Yu</b>          | WANG Chenyang, #ZHANG Yu, CHEN Denghang, "理性与道德的双重驱动: "双碳" 目标下公众低碳减排行为影响因素研究", <i>大连海事大学学报 (社会科学版)</i> , 21(3 (总第113)), June 2022, pp 66-73.  |
|                          | BAI Yang, DAI Jie, HUANG Weilun, TAN Tingting, #ZHANG Yu, "Water conservation policy and agricultural economic growth: Evidence of grain to green project in China", <i>Urban Climate</i> , 40, 12 October 2021, doi: <a href="https://doi.org/10.1016/j.uclim.2021.100994">https://doi.org/10.1016/j.uclim.2021.100994</a> .                                       |
| <b>ZHAO Mengxue</b>      | ZHAI Weixin, JIANG Zhidian, MENG Xiangfeng, ZHANG Xiaoling, #ZHAO Mengxue, LONG Ying, "Satellite monitoring of shrinking cities on the globe and containment solutions", <i>iScience</i> , 25(6), 16 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104411">https://doi.org/10.1016/j.isci.2022.104411</a> .   |
|                          | #DU Mengbing, #HE Li, #ZHAO Mengxue, #WANG Jie, CAO Yu, LI Heng, "Examining the relations of income inequality and carbon productivity: A panel data analysis", <i>Sustainable Production and Consumption</i> , 31, 31 January 2022, pp 249-262, doi: <a href="https://doi.org/10.1016/j.spc.2022.01.027">https://doi.org/10.1016/j.spc.2022.01.027</a> .           |
|                          | WAN Guanghua, JIANG Weirui, #ZHAO Mengxue, "城镇化的共同富裕效应", <i>中国农村经济</i> , 2022(4), 10 May 2022, pp 2-22.   |
|                          | #YUAN Zhihang, #ZHAO Mengxue, #DU Mengbing, "Price discount of green residential building in China's second-hand housing market: Evidence from Shenzhen", <i>Sustainable Energy Technologies and Assessments</i> , 52(Part B), 01 April 2022, doi: <a href="https://doi.org/10.1016/j.seta.2022.102171">https://doi.org/10.1016/j.seta.2022.102171</a> .            |
| <b>ZHENG Yang</b>        | XUE Zelin, #ZHENG Yang, HU Jieren, "Cross-departmental Collaboration within the Government in China: The Case of Shanghai", <i>China: An International Journal</i> , 20(1), 25 February 2022, pp 73-92.   |
| <b>ZHOU Ziqi</b>         | #ZHOU Ziqi, YAU Yung, "The small property rights housing institution in Mainland china: The perspective of substitutability of institutional functions", <i>Land</i> , 10(9), 30 August 2021, doi: <a href="https://doi.org/10.3390/land10090915">https://doi.org/10.3390/land10090915</a> .  |
| <b>Conference papers</b> |   |
| <b>TAO Lei</b>           | TANG Ningjing, #TAO Lei, WEN Bo, LU Zhicong, "Dare to Dream, Dare to Livestream: How E-Commerce Livestreaming Empowers Chinese Rural Women", <i>CHI'22 - Proceedings of the 2022 CHI Conference on Human Factors in Computing Systems</i> , Hybrid-Onsite, New Orleans, United States, 30 April - 05 May 2022, (ISBN: 9781450391573).                               |
| <b>TSANG Cheuk Ming</b>  | #TSANG Cheuk Ming, "Autistic Adults in the Workplace: Should Neoliberalism Take the Blame?", <i>LERA 74th Annual Meeting</i> , Virtual, 02-05 June 2022.  |
|                          | #TSANG Cheuk Ming, "Is the Definition of Disability for Social Assistance Inclusive?", <i>6th Annual Graduate Student Symposium</i> , York University, Online, 14-16 October 2021.  |
|                          | #TSANG Cheuk Ming, "Ableism and Autistic Adults Organizing", <i>Annual Canadian Sociological Association Conference 2022 (CSA@Congress 2022)</i> , Virtual, 16-20 May 2022.   |
| <b>WANG Shuhong</b>      | #WANG Shuhong, LI Shengxiao(Alex), HU Wanyang, "Grandparenting and Well-being in China: The Moderating Effect of Gender, Age, Income and Residential Location", <i>The 16th IACP Annual Conference</i> , 23-27 June 2022.   |
| <b>YAO Chao</b>          | #YAO Chao, WANG Jun, "Archipelagos: the interwoven of power logics in the infrastructure driven special economic zones development in Cambodia", <i>2022 American Association of Geographers Annual Meeting</i> , Virtual, New York, United States, 25 February - 01 March 2022.  |
|                          | #YAO Chao, WANG Jun, "Situating the Special Economic Zones in the transnational infrastructural power network: the case of Cambodia, 1991-2021", <i>RGS-IBG Annual International Conference</i> , Virtual, London, United Kingdom, 31 August - 03 September 2021.   |
| <b>YE Qianying</b>       | QIU Sha, AN Zimeng, #YE Qianying, JIN Xin, "Political Identity as an Obstacle: The Effect of Local Identity and Perceived Benefit on Use Intention of Health Code in Hong Kong during COVID-19", <i>2021 International Association for Media and Communication Research Conference (IAMCR 2021)</i> , Online Conference, Nairobi, Kenya, 11-15 July 2021, pp 40-41. |

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| <b>YUAN Maoling</b>   | # <u>YUAN Maoling</u> , <u>LIU Ning</u> , "When Professionals Lead: Policy-salient Imprints, Professional Experiences, and Public-Private Collaboration", <i>the 79th Annual Midwest Political Science Conference</i> , Chicago, United States, 07-10 April 2022.  |
| <b>ZHANG Yixiao</b>   | # <u>ZHANG Yixiao</u> , "Insights of good governance in Covid-19 pandemic: A case of Chinese government", <i>An Interdisciplinary, Cross-Cultural Rethinking of "Good Governance" : Theory, Practice, and Measurement Program</i> , Guangzhou, China, 19-20 August 2021.   |
| <b>ZHOU Ziqi</b>  | # <u>ZHOU Ziqi</u> , <u>YAU Yung</u> , "Revisiting Institutional Credibility of Small Property Rights Housing in Shenzhen: for Dwelling Function or Exclusion Function?", <i>28TH ANNUAL PACIFIC RIM REAL ESTATE SOCIETY CONFERENCE</i> , Virtual, 19-19 January 2022.   |
| <b>Creative and literary works, consulting reports and case studies</b> |  |
| <b>CHAPAGAIN Arjun</b>  | <u>CHAN Fung Cheung Wilson</u> , # <u>CHAPAGAIN Arjun</u> , <u>CHUNG Shek Yan</u> , <u>LI Che Lan Linda</u> , <i>Training Pack - Malaysia</i> , CityU CSHK PASS Workshop Series - Workshop 4 - Innovation and Cultural Diversity: Hong Kong Professional Services, Overseas Investment and Industrial Park Development in Malaysia<br><br>This comprehensive training pack is provided to registered participants prior to workshop to equip them with sufficient institutional background knowledge so as to enhance the quality of their interaction with speakers and other participants at the workshop. The pack includes background materials (such as political systems, religious inclinations, legal institutions, foreign investment laws, accounting regulations and tax systems) and information of Special Economic Zones (SEZs) based on consolidation of relevant research findings from secondary resources., August 2021, 91 p. |
| <b>LUO Man</b>  | # <u>LUO Man</u> , <u>CHUNG Shek Yan</u> , <u>LI Che Lan Linda</u> , <u>MO Lai Lan Phyllis</u> , <i>Training Pack: Myanmar</i> , December 2021, 90 p.  |
| <b>YAO Chao</b>   | # <u>YAO Chao</u> , <u>CHUNG Shek Yan</u> , <u>TJIA Yin Nor</u> , <u>LI Che Lan Linda</u> , <i>TRAINING PACK - BELARUS AND DJIBOUTI</i> , October 2021, 105 p.   |
| <b>All other outputs</b>  |  |
| <b>CHAN Kwun Hong</b>   | # <u>CHAN Kwun Hong</u> , <i>Colonial Private Policing: District Watch Force in Colonizer-indigenous Elite Relationship</i> , PhD Thesis, Department of Public Policy, City University of Hong Kong, Hong Kong, PRC, 31 December 2021.   |
| <b>CHEN Wenna</b>   | # <u>CHEN Wenna</u> , <i>The Influence of Environmental Complexity, Fiscal Slack, and Leadership Turnover on Management Innovation</i> , PhD Thesis, Department of Public Policy, City University of Hong Kong, Hong Kong, PRC, 01 September 2021.   |
| <b>LEE Subin</b>  | # <u>LEE Subin</u> , <i>Bracketing Women's Human Rights: A Feminist Critique of Contemporary Confucian Theories</i> , PhD Thesis, Department of Public Policy, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.   |
| <b>LIU Yongshen</b>   | # <u>LIU Yongshen</u> , <i>China's Neoliberal Urbanism Revisited: Towards an Institutional Interpretation</i> , PhD Thesis, Department of Public Policy, City University of Hong Kong, Hong Kong, PRC, 20 September 2021.  |
| <b>TAO Xiafei</b>   | # <u>TAO Xiafei</u> , <i>A Study on the Relationship Between Housing and Migration of Chinese Rural Migrants</i> , PhD Thesis, Department of Public Policy, City University of Hong Kong, Hong Kong, PRC, 29 June 2022.  |
| <b>WANG Shadong</b>   | # <u>WANG Shadong</u> , <i>Multiple Dimensions of Proximity in Explaining Firm Financial Performance in the Context of Industrial Agglomeration</i> , PhD Thesis, Department of Public Policy, City University of Hong Kong, Hong Kong, PRC, 21 July 2021.   |
| <b>DEPARTMENT OF SOCIAL AND BEHAVIOURAL SCIENCES</b>                    |  |
| <b>Scholarly books, monographs and chapters</b>                         |  |
| <b>CUDJOE Ebenezer</b>  | # <u>CUDJOE Ebenezer</u> , <u>CHIU Yu Lung Marcus</u> , "Kinship Care Support for Children Whose Parents Have Mental Illness in Ghana - Identifying a Culturally Informed Solution", <i>The Palgrave Handbook of Global Social Problems</i> , Baikady Rajendra, Gao Jianguo, Nadesan Varoshini, Przeperski Jaroslaw, Rezaul Islam and Sajid S.M (eds), Palgrave Macmillan, ISBN: 9783030681272, Cham, 16 November 2021.  |
| <b>XU Chi</b>   | <u>YEUNG Wai Keung Jerf</u> , <u>CHEN Hui Fang</u> , <u>LOW Yiu Tsang Andrew</u> , # <u>XU Chi</u> , # <u>XU Leilei</u> , "Multilevel Mediation Analysis with Categorical Outcomes - Conducting Causal Inference by the MSEM Framework", <i>Advances in Mathematics Research</i> , Vol 31, Baswell Albert R.   |

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|                                |  |
|--------------------------------|--|
|                                | (ed), Nova Science Publishers, Inc., ISBN: 978-1-68507-892-8,9781685079031, 20 May 2022.   |
| <b>XU Leilei</b>               | <u>YEUNG Wai Keung Jerf</u> , <u>CHEN Hui Fang</u> , <u>LOW Yiu Tsang Andrew</u> , #XU Chi, #XU Leilei, "Multilevel Mediation Analysis with Categorical Outcomes - Conducting Causal Inference by the MSEM Framework", <i>Advances in Mathematics Research</i> , Vol 31, Baswell Albert R. (ed), Nova Science Publishers, Inc., ISBN: 978-1-68507-892-8,9781685079031, 20 May 2022.  |
| <b>XU Mingdie</b>              | #XU Mingdie, "Employment of People with Disabilities in Corporate Social Responsibility Efforts - Large Corporates' Role", <i>The Palgrave Handbook of Global Social Problems</i> , Edition Living, Baikady Rajendra, Nadesan Varoshini, Przeperski Jaroslaw, Rezaul Islam, Rezaul Islam and Sajid S.M (eds), Palgrave Macmillan, ISBN: 978-3-030-68127-2, Cham, 18 December 2021.   |
| <b>Journal publications</b>    |  |
| <b>ANDERSON Karoline Anita</b> | #ANDERSON Karoline Anita, "Moral distress in The Last of Us: Moral agency, character realism, and navigating fixed gaming narratives", <i>Computers in Human Behavior Reports</i> , 5, 16 December 2021, doi: <a href="https://doi.org/10.1016/j.chbr.2021.100163">https://doi.org/10.1016/j.chbr.2021.100163</a> .  |
| <b>BU He</b>                   | DUAN Wenjie, KONG Yansi, #BU He, GUAN Qiujie, CHEN Zheng, LUO Qiansheng, ZHANG Jing, "The Online Strength-Informed Acceptance and Commitment Therapy Among COVID-19-Affected Adolescents", <i>Research on Social Work Practice</i> , 11 February 2022, doi: <a href="https://doi.org/10.1177/10497315211067270">https://doi.org/10.1177/10497315211067270</a> .  |
|                                | HE Longtao, MU Liping, JEAN Jason A., ZHANG Lei, WU Han, ZHOU Tian, #BU He, "Contributions and Challenges of Public Health Social Work Practice during the Initial 2020 COVID-19 Outbreak in China", <i>British Journal of Social Work</i> , 23 April 2022, doi: <a href="https://doi.org/10.1093/bjsw/bcac077">https://doi.org/10.1093/bjsw/bcac077</a> .   |
|                                | #BU He, CHI Xinli, #QU Diyang, "Prevalence and predictors of the persistence and incidence of adolescent internet addiction in Mainland China: A two-year longitudinal study", <i>Addictive Behaviors</i> , 122, 01 July 2021, doi: <a href="https://doi.org/10.1016/j.addbeh.2021.107039">https://doi.org/10.1016/j.addbeh.2021.107039</a> .  |
|                                | #BU He, HE Ai, GONG Na, HUANG Liuyue, LIANG Kaixin, KASTELIC Kaja, MA Jiani, LIU Yang, CHEN Si-Tong, CHI Xinli, "Optimal movement behaviors: correlates and associations with anxiety symptoms among Chinese university students", <i>BMC Public Health</i> , 21, 09 November 2021, doi: <a href="https://doi.org/10.1186/s12889-021-12116-6">https://doi.org/10.1186/s12889-021-12116-6</a> .   |
|                                | MENG Linlin, QU Diyang, #BU He, HUO Lijuan, QI Ling, YANG Jiezhong, ZHENG Tiansheng, DU Xiangdong, HE Kongliang, WANG Yanni, ZHOU Yongjie, "The Psychosocial Correlates of Non-suicidal Self-Injury Within a Sample of Adolescents With Mood Disorder", <i>Frontiers in Public Health</i> , 10, 22 February 2022, doi: <a href="https://doi.org/10.3389/fpubh.2022.768400">https://doi.org/10.3389/fpubh.2022.768400</a> .                                     |
|                                | QU Diyang, WANG Yanni, ZHANG Zhiguo, MENG Linlin, ZHU Feng, ZHENG Tiansheng, HE Kongliang, ZHOU Yue, LI Chuanxiao, #BU He, ZHOU Yongjie, "Psychometric Properties of the Chinese Version of the Functional Assessment of Self-Mutilation (FASM) in Chinese Clinical Adolescents", <i>Frontiers in Psychiatry</i> , 12, 26 January 2022, doi: <a href="https://doi.org/10.3389/fpsy.2021.755857">https://doi.org/10.3389/fpsy.2021.755857</a> .                 |
|                                | LIANG Kaixin, DE LUCENA MARTINS Clarice Maria, CHEN Si-Tong, CLARK Cain Craig Truman, DUNCAN Michael Joseph, #BU He, HUANG Liuyue, CHI Xinli, "Sleep as a Priority: 24-Hour Movement Guidelines and Mental Health of Chinese College Students during the COVID-19 Pandemic", <i>Healthcare (Switzerland)</i> , 9(9), 06 September 2021, doi: <a href="https://doi.org/10.3390/healthcare9091166">https://doi.org/10.3390/healthcare9091166</a> .               |
| <b>CHEN Bowen</b>              | #CHEN Bowen, GONG Weijie, LAI Agnes Yuen-Kwan, SIT Shirley Man-Man, HO Sai-Yin, WANG Man-Ping, <u>YU Xiaonan Nancy</u> , LAM Tai-Hing, "Patterns of Perceived Harms and Benefits of the COVID-19 Outbreak in Hong Kong Adults: A Latent Profile Analysis", <i>International Journal of Environmental Research and Public Health</i> , 19(7), 05 April 2022, doi: <a href="https://doi.org/10.3390/ijerph19074352">https://doi.org/10.3390/ijerph19074352</a> . |
| <b>CHEN Chen</b>               | LI Fugui, MU Weiqi, LI Siying, LI Xue, ZHANG Jianxin, #CHEN Chen, ZHOU Mingjie, "Income and Subjective Well-being: Test of a Multilevel Moderated Mediation Model", <i>Applied Research in Quality of Life</i> , 13 January 2022, doi: <a href="https://doi.org/10.1007/s11482-021-10017-9">https://doi.org/10.1007/s11482-021-10017-9</a> .   |

Section A: Publications of PhD Students

|                                 |  |
|---------------------------------|--|
|                                 | <p>#<a href="#">CHEN Chen</a>, HUANG Fei, WANG Kexin, JING Xiaojuan, ZHOU Mingjie, ZHANG Jianxin, "Income and life satisfaction of dual-earner couples: A dyadic study", <i>Asian Journal of Social Psychology</i>, 24(4), December 2021, pp 553-564, doi: <a href="https://doi.org/10.1111/ajsp.12460">https://doi.org/10.1111/ajsp.12460</a>.</p> <p>TAN Xing, AN Yuanyuan, #<a href="#">CHEN Chen</a>, "Avoidant coping as mediator of the relationship between rumination and mental health among family caregivers of Chinese breast cancer patients", <i>European Journal of Cancer Care</i>, 31(1), 17 October 2021, doi: <a href="https://doi.org/10.1111/ecc.13523">https://doi.org/10.1111/ecc.13523</a>.</p>  |
| <b>CHEN Xueli</b>               | <p>ZHAO Qian, ZHANG Yongjun, WANG Min, REN Jiecheng, CHEN Yijun, #<a href="#">CHEN Xueli</a>, WEI Zhengde, SUN Jingwu, ZHANG Xiaochu, "Effects of retrieval-extinction training on internet gaming disorder", <i>Journal of Behavioral Addictions</i>, 11(1), 22 March 2022, pp 49–62, doi: <a href="https://doi.org/10.1556/2006.2022.00006">https://doi.org/10.1556/2006.2022.00006</a>.</p>   |
| <b>CHUNG Ka Hung Edwin</b>      | <p>#<a href="#">CHUNG Ka Hung Edwin</a>, <a href="#">YEUNG Dannii</a>, "Development of a comprehensive Chinese Successful Aging Scale: Incorporating the viewpoints of older adults", <i>Innovation in Aging</i>, 5(Supplement 1), 17 December 2021, pp 215-216, doi: <a href="https://doi.org/10.1093/geroni/igab046.827">https://doi.org/10.1093/geroni/igab046.827</a>.</p> <p><a href="#">LAM Alfred</a>, <a href="#">YEUNG Dannii</a>, #<a href="#">CHUNG Ka Hung Edwin</a>, "Benefits of volunteerism for middle-aged and older adults: Comparisons between types of volunteering activities", <i>Ageing and Society</i>, 15 November 2021, doi: <a href="https://doi.org/10.1017/S0144686X21001665">https://doi.org/10.1017/S0144686X21001665</a>.</p>  |
| <b>CUDJOE Ebenezer</b>          | <p>ABDULLAH Alhassan, #<a href="#">CUDJOE Ebenezer</a>, RYU Wonjung, EMERY Clifton Robert, "During and beyond the frequent lockdowns: Addressing the pandemic (COVID-19)–related family violence through informal social control", <i>Developmental Child Welfare</i>, 3(3), 20 September 2021, pp 225–234, doi: <a href="https://doi.org/10.1177%2F25161032211046409">https://doi.org/10.1177%2F25161032211046409</a>.</p> <p>#<a href="#">CUDJOE Ebenezer</a>, TAM Hau Lin Cherry, EFFAH Deborah, AMEGASHIE Elorm Faith, TWENEBOAH Adjoa Owusu , "Living with parental mental illness is like a roller coaster: Reflections on children's lifeworld in the family setting", <i>Journal of Clinical Nursing</i>, 22 June 2022, doi: <a href="https://doi.org/10.1111/jocn.16417">https://doi.org/10.1111/jocn.16417</a>.</p> <p>ABDULLAH Alhassan, #<a href="#">CUDJOE Ebenezer</a>, FREDERICO Margarita, CHIU Yu Lung Marcus, ASAMOAH Edward, JORDAN Lucy P., EMERY Clifton R., "Filicide as a cultural practice in Ghana: The qualitative understanding of a family tragedy and its implications for child protection practice", <i>Child Abuse &amp; Neglect</i>, 127, 04 March 2022, doi: <a href="https://doi.org/10.1016/j.chiabu.2022.105580">https://doi.org/10.1016/j.chiabu.2022.105580</a>.</p> <p>#<a href="#">CUDJOE Ebenezer</a>, "Using Diaries With Interpretative Phenomenological Analysis: Guidelines From a Study of Children Whose Parents Have Mental Illness", <i>The International Journal of Qualitative Methods</i>, 21, 29 March 2022, doi: <a href="https://doi.org/10.1177/16094069221084435">https://doi.org/10.1177/16094069221084435</a>.</p> <p>AYIM Mary, ABDULLAH Alhassan, BENTUM Hajara, AMPONSAH Enoch Boafo, #<a href="#">CUDJOE Ebenezer</a>, MANFUL Esmeranda, "Contributing to indigenous social work practice in Africa: A look at the cultural conceptualisations of social problems in Ghana", <i>Qualitative Social Work</i>, 28 December 2021, doi: <a href="https://doi.org/10.1177/14733250211055487">https://doi.org/10.1177/14733250211055487</a>.</p> |
| <b>DONG Yang</b>                | <p>#<a href="#">DONG Yang</a>, ZHENG Hao-Yuan, WU Sammy Xiao-Ying, HUANG Fang-Ya, PENG Shu-Na, SUN Skylar Yuan-Ke, ZENG Hong, "The effect of Chinese pop background music on Chinese poetry reading comprehension", <i>Psychology of Music</i>, 14 February 2022, doi: <a href="https://doi.org/10.1177/03057356211062940">https://doi.org/10.1177/03057356211062940</a>.</p> <p>SUN Yuanke, WANG Jindao, #<a href="#">DONG Yang</a>, ZHENG Haoyuan, YANG Jie, ZHAO Yaman, DONG Weiyang, "The Relationship Between Reading Strategy and Reading Comprehension: A Meta-Analysis", <i>Frontiers in Psychology</i>, 12, 04 August 2021, doi: <a href="https://doi.org/10.3389/fpsyg.2021.635289">https://doi.org/10.3389/fpsyg.2021.635289</a>.</p> <p>#<a href="#">DONG Yang</a>, CHOW Wing Yin, "Home Literacy Environment and English as A Second Language Acquisition: A Meta-analysis", <i>Language Learning and Development</i>, 25 January 2022, doi: <a href="https://doi.org/10.1080/15475441.2021.2003197">https://doi.org/10.1080/15475441.2021.2003197</a>.</p>   |
| <b>EZULIKE Chigozie Donatus</b> | <p>#<a href="#">EZULIKE Chigozie Donatus</a>, OKOYE Uzoma Odera, EKOH Prince Chiagozie, "Social work undergraduates students and COVID-19 experiences in Nigeria", <i>Qualitative Social Work</i>, 02 July 2021, doi: <a href="https://doi.org/10.1177/14733250211029705">https://doi.org/10.1177/14733250211029705</a>.</p>   |



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|                      | <p>OJEMBE Blessing Ugochi, KALU Michael Ebe, #EZULIKE Chigozie Donatus, EKOH Prince Chiagozie, OSIFESO Temitope, OYINLOLA Oluwagbemiga, IWUAGWU Anthony, MAKANJUOLA John, KAPIRIRI Lydia , "Exploration of Loneliness Among Black Older Adults: A Scoping Review Protocol", <i>Social Science Protocols</i>, 4, 21 November 2021, doi: <a href="https://doi.org/10.7565/ssp.v4.5748">https://doi.org/10.7565/ssp.v4.5748</a>.</p>   |
|                      | <p>EKOH Prince Chiagozie, CHUKWEMEKA Ejimakaraonye, #EZULIKE Chigozie Donatus, GEORGE Elizabeth Onyedikachi, EGBO Ikechukwu Emmanuel, AGBAWODIKEIZU Patricia Uju, ANTHONY Iwuagwu Obinna, NNEBE Ikechukwu, "Ageing and Health in Africa: Assessing how low- and Middle-class Older Adults with Chronic Illnesses Navigate the Problem of Counterfeit Drugs in Nigeria", <i>Journal of Population Ageing</i>, 16 March 2022, doi: <a href="https://doi.org/10.1007/s12062-022-09363-9">https://doi.org/10.1007/s12062-022-09363-9</a>.</p>   |
|                      | <p>KALU Michael E, OYINLOLA Oluwagbemiga, IBEKAKU Michael C, ADANDOM Israel I, IWUAGWU Anthony Obinna, #EZULIKE Chigozie Donatus, NWACHUKWU Ernest C, UDUONU Ekezie M, "A Mapping Review on the Uptake of the COVID-19 Vaccine among Adults in Africa Using the 5A's Vaccine Taxonomy", <i>American Journal of Tropical Medicine and Hygiene</i>, 106(6), 09 May 2022, pp 1688–1697, doi: <a href="https://doi.org/10.4269/ajtmh.21-0515">https://doi.org/10.4269/ajtmh.21-0515</a>.</p>  |
|                      | <p>KALU Michael E, OKEKE Chukwuebuka O, NWACHUKWU Ernest C, OKOH Augustine C, AKINROLIE Olayinka, #EZULIKE Chigozie Donatus, ADANDOM Henrietha, ONYESO Ogochukwu K, EGBUMIKE Joseph, OLATUNJI Funmibi , UGWUODO Ebere , OJEMBE Blessing U, ADANDOM Israel I, ANAGBASO Akaolisa , AKINROLIE Omobolade , ANIETO Ebuka M, EKOH Prince Chiagozie, MAKANJUOLA John , IBEKAKU Michael C, IWUAGWU Anthony, ONYEKERE Chukwuebuka , MUOMAIKE Kelechi , NKOROH Chinonyerem , ODEGA Adaobi , OGBUECHE Chukwudi, OMEJE Chidimma, ONYEKWULUJE Chisom , OYINLOLA Oluwagbemiga, RAYNER Daniel , UGWUJA Immaculata , "Methodology and reporting quality of 544 studies related to ageing: a continued discussion in setting priorities for ageing research in Africa", <i>Journal of Global Health Economics and Policy</i>, 2, 10 June 2022, doi: <a href="https://doi.org/10.52872/001c.36188">https://doi.org/10.52872/001c.36188</a>.</p> |
|                      | <p>EKOH Prince Chiagozie, GEORGE Elizabeth Onyedikachi, AGBAWODIKEIZU Patricia Uju, #EZULIKE Chigozie Donatus, OKOYE Uzoma Odera, NNEBE Ikechukwu, "'Further Distance and Silence among Kin': Social Impact of COVID-19 on Older People in Rural Southeastern Nigeria", <i>Journal of Intergenerational Relationships</i>, 01 May 2022, doi: <a href="https://doi.org/10.1080/15350770.2022.2070572">https://doi.org/10.1080/15350770.2022.2070572</a>.</p>   |
|                      | <p>EKOH Prince Chiagozie, AGBAWODIKEIZU Patricia Uju, GEORGE Elizabeth Onyedikachi, #EZULIKE Chigozie Donatus, OKOYE Uzoma Odera, "More invisible and vulnerable: the impact of COVID-19 on older persons in displacement in Durumi IDP camp Abuja, Nigeria", <i>Quality in Ageing and Older Adults</i>, 22(3/4), 16 August 2021, pp 135-146, doi: <a href="https://doi.org/10.1108/QAOA-10-2020-0049">https://doi.org/10.1108/QAOA-10-2020-0049</a>.</p>   |
| <b>FOK Yuen Hung</b> | <p>CHOW Oi Wah Esther, WONG Yuk Yi, #FOK Yuen Hung, #LIAO Xu, LI Chaoyu, "Positive life stories of Stroke-Survivor's spousal caregiving in Hong Kong: Lessons for policy and practice", <i>Social Science &amp; Medicine</i>, 291, 11 October 2021, doi: <a href="https://doi.org/10.1016/j.socscimed.2021.114476">https://doi.org/10.1016/j.socscimed.2021.114476</a>.</p>   |
| <b>FU Rong</b>       | <p>#FU Rong, #HOU Jianhua, GU Yuzhou, YU Xiaonan Nancy, "Do Couple-Based Interventions Show Larger Effects in Promoting HIV Preventive Behaviors than Individualized Interventions in Couples? A Systematic Review and Meta-analysis of 11 Randomized Controlled Trials", <i>AIDS and Behavior</i>, 2022, doi: <a href="https://doi.org/10.1007/s10461-022-03768-5">https://doi.org/10.1007/s10461-022-03768-5</a>.</p>   |
| <b>GU Peiwei</b>     | <p>LI Jun, XU Meili, ZHANG Zhuoni, #GU Peiwei, "年轻人对移民更友好吗？对香港和上海的“世代—双城”比较", <i>社会</i>, 41(5), 20 September 2021, pp 31-55, doi: <a href="https://doi.org/10.15992/j.cnki.31-1123/c.2021.05.002">https://doi.org/10.15992/j.cnki.31-1123/c.2021.05.002</a>.</p> <p>ZHANG Zhuoni, #GU Peiwei, "Returned but separated: political stance, identity, and the yellow–blue divide in Hong Kong SAR China", <i>Chinese Sociological Review</i>, 54(2), 16 February 2022, pp 131-154, doi: <a href="https://doi.org/10.1080/21620555.2022.2033969">https://doi.org/10.1080/21620555.2022.2033969</a>.</p>   |

Section A: Publications of PhD Students

|                              |  |
|------------------------------|--|
| <b>GUAN Xin</b>              | <u>LO Tit Wing</u> , <u>HUI Yuk Ting Cora</u> , # <u>GUAN Xin</u> , KWOK Sharon Ingrid, "Prisoners' Perceived Violence and Hair Regulation in Hong Kong Prisons: Gender-Based Differences", <i>Frontiers in Psychology</i> , 13, 27 April 2022, doi: <a href="https://doi.org/10.3389/fpsyg.2022.869898">https://doi.org/10.3389/fpsyg.2022.869898</a> .   |
|                              | <u>LEE Kwun Wa</u> , <u>CHAN Hong Yee Gloria</u> , <u>LO Tit Wing</u> , <u>YEUNG Wai Keung Jerf</u> , <u>TAM Hau Lin Cherry</u> , # <u>GUAN Xin</u> , "An inquiry into the relationship between drug users' psychological situations and their drug-taking behaviour", <i>International Journal of Environmental Research and Public Health</i> , 18(23), 02 December 2021, doi: <a href="https://doi.org/10.3390/ijerph182312730">https://doi.org/10.3390/ijerph182312730</a> . |
|                              | # <u>GUAN Xin</u> , <u>LO Tit Wing</u> , "Restrictive Deterrence in Drug Offenses: A Systematic Review and Meta-Synthesis of Mixed Studies", <i>Frontiers in Psychology</i> , 12, 25 August 2021, doi: <a href="https://doi.org/10.3389/fpsyg.2021.727142">https://doi.org/10.3389/fpsyg.2021.727142</a> .   |
| <b>HOU Jianhua</b>           | CHANG Biru, # <u>HOU Jianhua</u> , "The Association Between Perceived Risk of COVID-19, Psychological Distress, and Internet Addiction in College Students: An Application of Stress Process Model", <i>Frontiers in Psychology</i> , 13, 20 June 2022, doi: <a href="https://doi.org/10.3389/fpsyg.2022.898203">https://doi.org/10.3389/fpsyg.2022.898203</a> .   |
|                              | # <u>FU Rong</u> , # <u>HOU Jianhua</u> , GU Yuzhou, <u>YU Xiaonan Nancy</u> , "Do Couple-Based Interventions Show Larger Effects in Promoting HIV Preventive Behaviors than Individualized Interventions in Couples? A Systematic Review and Meta-analysis of 11 Randomized Controlled Trials", <i>AIDS and Behavior</i> , 2022, doi: <a href="https://doi.org/10.1007/s10461-022-03768-5">https://doi.org/10.1007/s10461-022-03768-5</a> .                                     |
|                              | WEI Jiaqi, # <u>HOU Jianhua</u> , MU Tingting, SUN Jun, LI Shuang, WU Hao, SU Bin, ZHANG Tong, "Evaluation of Computerized Cognitive Training and Cognitive and Daily Function in Patients Living With HIV: A Meta-analysis", <i>JAMA network open</i> , 5(3), 03 March 2022, doi: <a href="https://doi.org/10.1001/jamanetworkopen.2022.0970">https://doi.org/10.1001/jamanetworkopen.2022.0970</a> .   |
| <b>HU Jinghan</b>            | # <u>HU Jinghan</u> , LIU Iris Kam-fung, STEWART Sunita M., LAM Tai Hing, <u>YU Xiaonan Nancy</u> , "The More the Better, Only in the Longer Term: A Cluster Randomized Controlled Trial to Evaluate a Compound Intervention Among Mainland Chinese Immigrants in Hong Kong", <i>Behavior Therapy</i> , 19 April 2022, doi: <a href="https://doi.org/10.1016/j.beth.2022.04.003">https://doi.org/10.1016/j.beth.2022.04.003</a> .  |
| <b>ISANGHA Stanley Oloji</b> | AKINTUNDE Tosin Yinka , TASSANG Angwi Enow , OKEKE Marvellous , # <u>ISANGHA Stanley Oloji</u> , MUSA Taha Hussein , "Perceived Vaccine Efficacy, Willingness to Pay for COVID-19 Vaccine and Associated Determinants among Foreign Migrants in China", <i>Electronic Journal of General Medicine</i> , 19(3), 25 March 2022, doi: <a href="https://doi.org/10.29333/ejgm/11920">https://doi.org/10.29333/ejgm/11920</a> .   |
| <b>LEUNG Lap Kwan Cyrus</b>  | # <u>LEUNG Lap Kwan Cyrus</u> , <u>LI Kin Kit</u> , <u>WEI Wan In</u> , <u>TANG Arthur</u> , <u>WONG Samuel Yeung-Shan</u> , <u>LEE Shui-Shan</u> , <u>KWOK Kin On</u> , "Profiling vaccine believers and skeptics in nurses: A latent profile analysis", <i>International Journal of Nursing Studies</i> , 126, 27 November 2021, doi: <a href="https://doi.org/10.1016/j.ijnurstu.2021.104142">https://doi.org/10.1016/j.ijnurstu.2021.104142</a> .                            |
|                              | <u>CHIU Yu Lung Marcus</u> , # <u>LEUNG Lap Kwan Cyrus</u> , <u>LI Kin Kit</u> , <u>YEUNG Dannij</u> , <u>LO Tit Wing</u> , "Family caregiving during the COVID-19 pandemic: factors associated with anxiety and depression of carers for community-dwelling older adults in Hong Kong", <i>BMC Geriatrics</i> , 22, 14 February 2022, doi: <a href="https://doi.org/10.1186/s12877-021-02741-6">https://doi.org/10.1186/s12877-021-02741-6</a> .                                |
| <b>LI Yumei</b>              | XIE Peng, MU Wenlong, # <u>LI Yumei</u> , LI Xue, WANG Yu, "The Chinese version of the Digital Stress Scale: Evaluation of psychometric properties", <i>Current Psychology</i> , 09 May 2022, doi: <a href="https://doi.org/10.1007/s12144-022-03156-1">https://doi.org/10.1007/s12144-022-03156-1</a> .   |
|                              | # <u>LI Yumei</u> , "Validation and Short-Form Development of the Generic Scale of Being Phubbed and Phubbing and Relationship Between Being Phubbed and Phubbing in Chinese Adolescents", <i>Current Psychology</i> , 28 May 2022, doi: <a href="https://doi.org/10.1007/s12144-022-03222-8">https://doi.org/10.1007/s12144-022-03222-8</a> .   |
|                              | DUAN Wenjie, # <u>LI Yumei</u> , 张小静, 孙希希, "国民获得感: 当代共建共享战略成效和发展格局的测度探析", <i>武汉科技大学学报(社会科学版)</i> , 24(3), June 2022, pp 244-256, doi: <a href="https://doi.org/10.3969/j.issn.1009-3699.2022.03.002">https://doi.org/10.3969/j.issn.1009-3699.2022.03.002</a> .  |
| <b>LIAO Xu</b>               | <u>CHOW Oi Wah Esther</u> , <u>WONG Yuk Yi</u> , # <u>FOK Yuen Hung</u> , # <u>LIAO Xu</u> , <u>LI Chaoyu</u> , "Positive life stories of Stroke-Survivor's spousal caregiving in Hong Kong: Lessons for policy and practice", <i>Social Science &amp; Medicine</i> , 291, 11 October 2021, doi: <a href="https://doi.org/10.1016/j.socscimed.2021.114476">https://doi.org/10.1016/j.socscimed.2021.114476</a> .   |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
| <b>QIN Tianli</b>    | YANG Jun, #QIN Tianli, "Public life as identity construction: A case study based on an SL square-dancing group in Shanghai", <i>British Journal of Sociology</i> , 72(5), 27 October 2021, pp 1260-1283, doi: <a href="https://doi.org/10.1111/1468-4446.12904">https://doi.org/10.1111/1468-4446.12904</a> .   |
|                      | YANG Jun, #QIN Tianli, "Chinese Square-Dancing: A Description of Group Cultural Life", <i>Sociological Research Online</i> , 09 June 2022, doi: <a href="https://doi.org/10.1177/13607804221096687">https://doi.org/10.1177/13607804221096687</a> .   |
|                      | 李秀霞, #QIN Tianli, 王友信, "高校医患关系研究反思", <i>潍坊学院学报</i> , 21(6), December 2021, pp 111-113.  |
| <b>QU Diyang</b>     | #BU He, CHI Xinli, #QU Diyang, "Prevalence and predictors of the persistence and incidence of adolescent internet addiction in Mainland China: A two-year longitudinal study", <i>Addictive Behaviors</i> , 122, 01 July 2021, doi: <a href="https://doi.org/10.1016/j.addbeh.2021.107039">https://doi.org/10.1016/j.addbeh.2021.107039</a> .   |
|                      | GUO Sijia, #QU Diyang, "Flourishing of rural adolescents in China: A moderated mediation model of social capital and intrinsic motivation", <i>International Journal of Environmental Research and Public Health</i> , 18(15), 01 August 2021, doi: <a href="https://doi.org/10.3390/ijerph18158158">https://doi.org/10.3390/ijerph18158158</a> .   |
| <b>WONG Kang Li</b>  | CHIU Yu Lung Marcus, GHOSH Corinne, WONG Christine, #WONG Kang Li, "Dying in a foreign land: A study of completed suicides among foreign workers in Singapore", <i>Transcultural Psychiatry</i> , 59(1), 21 July 2021, pp 63-77, doi: <a href="https://doi.org/10.1177/13634615211023672">https://doi.org/10.1177/13634615211023672</a> .   |
|                      | WONG Peace Yuh Ju, #WONG Kang Li, GHOSH Corinne, CHIU Yu Lung Marcus, "Supervision of supervisory practice: From idea to practice", <i>International Social Work</i> , 21 February 2022, doi: <a href="https://doi.org/10.1177/00208728211073648">https://doi.org/10.1177/00208728211073648</a> .   |
| <b>WU Yihan</b>      | #WU Yihan, "Critical Discourse Analysis of President Xi's Speech on Teaching and Education", <i>Journal of Language Teaching and Research</i> , 13(4), 2022, pp 749-754, doi: <a href="https://doi.org/10.17507/jltr.1304.07">https://doi.org/10.17507/jltr.1304.07</a> .   |
|                      | LUO Yirui, #WU Yihan, "The Relationship Between Self/Value Discrepancies and Anxiety: The Mediation Effect of Depressogenic Attributional Style", <i>Journal of Rational - Emotive and Cognitive - Behavior Therapy</i> , 21 April 2022, doi: <a href="https://doi.org/10.1007/s10942-022-00449-z">https://doi.org/10.1007/s10942-022-00449-z</a> .   |
| <b>XU Chi</b>        | WANG Xiao-tao, #XU Chi, "已婚独生子女家庭对孩子的教育投入: 基于全国 12 城市的调查研究", <i>教育学报</i> , 18(3), June 2022, pp 117-129, doi: <a href="https://doi.org/10.14082/j.cnki.1673-1298.2022.03.011">https://doi.org/10.14082/j.cnki.1673-1298.2022.03.011</a> .   |
| <b>XU Leilei</b>     | LIU Zhi-jun, #XU Leilei, "留守经历与外来工社会融合: 生命历程视角的检视及其启示", <i>西北人口</i> , 42(6 (总第 202)), 01 November 2021, pp 85-98, doi: <a href="https://doi.org/10.15884/j.cnki.issn.1007-0672.2021.06.008">https://doi.org/10.15884/j.cnki.issn.1007-0672.2021.06.008</a> .  |
| <b>XU Mingdie</b>    | LING Henry Wai-Hang, SHUM Michelle, KWAN Chi Kin, #XU Mingdie, "Social workers' adaptation in times of pandemic crisis: A Hong Kong case", <i>International Social Work</i> , 29 December 2021, doi: <a href="https://doi.org/10.1177/00208728211064581">https://doi.org/10.1177/00208728211064581</a> .  |
| <b>ZHANG Qiaochu</b> | #ZHANG Qiaochu, #ZHOU Yanlin, HO Samuel M.Y., "Active and avoidant coping profiles in children and their relationship with anxiety and depression during the COVID-19 pandemic", <i>Scientific Reports</i> , 12, 2022, doi: <a href="https://doi.org/10.1038/s41598-022-15793-4">https://doi.org/10.1038/s41598-022-15793-4</a> .   |
| <b>ZHANG Yuxuan</b>  | LI Shunyu, WANG Xiaotong, WU Zhili, #ZHANG Yuxuan, "The More Internet Access, the More Mental Symptoms Students Got, the More Problematic Internet Use They Suffered: a Meta-analysis of Mainland Chinese Adolescents and Young Adults", <i>International Journal of Mental Health and Addiction</i> , 27 June 2022, doi: <a href="https://doi.org/10.1007/s11469-022-00850-w">https://doi.org/10.1007/s11469-022-00850-w</a> . |
|                      | #CHEN Yikang, #LIU Yifan, #ZHANG Yuxuan, #LI Zheng, #ZHOU Tianshu, "The Effect of Fear of the COVID-19 on Depression Among Chinese Outbound Students Studying Online in China Amid the COVID-19 Pandemic Period: The Role of Resilience and Social Support", <i>Frontiers in Psychology</i> , 12, 15 October 2021, doi: <a href="https://doi.org/10.3389/fpsyg.2021.750011">https://doi.org/10.3389/fpsyg.2021.750011</a> .     |

## Section A: Publications of PhD Students

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|-----------------------------|--|
| <b>ZHOU Yanlin</b>          | #ZHANG Qiaochu, #ZHOU Yanlin, HO Samuel M.Y., "Active and avoidant coping profiles in children and their relationship with anxiety and depression during the COVID-19 pandemic", <i>Scientific Reports</i> , 12, 2022, doi: <a href="https://doi.org/10.1038/s41598-022-15793-4">https://doi.org/10.1038/s41598-022-15793-4</a> .  |
|                             | #ZHOU Yanlin, YU Xiaonan Nancy, DONG Peiqi, ZHANG Qiong, "Stressful life events and children's socioemotional difficulties: Conditional indirect effects of resilience and executive function", <i>Journal of Experimental Child Psychology</i> , 216, 27 December 2021, doi: <a href="https://doi.org/10.1016/j.jecp.2021.105345">https://doi.org/10.1016/j.jecp.2021.105345</a> .  |
| <b>Conference papers</b>    |  |
| <b>BU He</b>                | LIANG Kaixin, HUANG Liuyue, #QU Diyang, #BU He, CHI Xinli, "COVID-19 疫情期間大學生抑鬱症狀的發展軌跡: 自我關懷和心理韌性的保護作用", 第二十三屆全國心理學學術會議摘要集, Virtual, China, 29-31 October 2021, pp 676-677.   |
| <b>LEUNG Lap Kwan Cyrus</b> | #LEUNG Lap Kwan Cyrus, LI Kin Kit, "The Role of Emotions, Perceived Avoidability and Attributes of Threat on conspiracies' endorsement", <i>32nd International Congress of Psychology (ICP 2020+)</i> , Virtual, Prague, Czech Republic, 18-23 July 2021.  |
| <b>LI Xuhong</b>            | #LI Xuhong, RUAN Yongxin, FENG Juxiong, HE Langjie, "Systematic Review of Intervention to Reduce Depression in Older Adults during COVID-19", 2022 「疫情下家庭福利服務之挑戰與因應」國際研討會, Providence University, Taichung, Taiwan, 27-27 May 2022.  |
|                             | GUAN Xin, #LI Xuhong, ZHANG Xingzhou, CAI Pengpeng, "新冠疫情下大學生的家庭抗逆力及其相關因素: 家庭調整與適應反應模型的應用", 2022 「疫情下家庭福利服務之挑戰與因應」國際研討會, Providence University, Taichung, Taiwan, 27-27 May 2022.  |
| <b>QU Diyang</b>            | LIANG Kaixin, HUANG Liuyue, #QU Diyang, #BU He, CHI Xinli, "COVID-19 疫情期間大學生抑鬱症狀的發展軌跡: 自我關懷和心理韌性的保護作用", 第二十三屆全國心理學學術會議摘要集, Virtual, China, 29-31 October 2021, pp 676-677.   |
| <b>All other outputs</b>    |  |
| <b>DONG Yang</b>            | #DONG Yang, <i>Contributions of Cognitive and Linguistic Factors to Reading Comprehension in Chinese Primary Students</i> , PhD Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 21 July 2021.   |
| <b>FOK Yuen Hung</b>        | #FOK Yuen Hung, <i>The Identity Construction of Teenage Mothers in the Hong Kong Chinese Context: Individual as a Site for Competing Forms of Subjectivity</i> , PhD Thesis, Department of Social and Behavioural Sciences, Department of Social and Behavioural Sciences, Department of Social and Behavioural Sciences, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 31 December 2021. |
|                             | #FOK Yuen Hung, <i>The Identity Construction of Teenage Mothers in the Hong Kong Chinese Context: Individual as a Site for Competing Forms of Subjectivity</i> , PhD Thesis, Department of Social and Behavioural Sciences, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 30 December 2021.   |
| <b>IP Priscilla Sei Yah</b> | #IP Priscilla Sei Yah, <i>A Holistic Analysis of Career Development of Tertiary Educated Young Persons with Disabilities in Hong Kong: A Mixed Methods Design</i> , PhD Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.   |
| <b>LEUNG Lap Kwan Cyrus</b> | #LEUNG Lap Kwan Cyrus, <i>How Emotions Shape Our Compensatory Control in the Face of Threat, Uncertainty, and Information Void?</i> , PhD Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 02 December 2021.   |
| <b>WANG Wenjing</b>         | #WANG Wenjing, <i>Effect of Behavioral Immune System on Misogyny</i> , PhD Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 28 December 2021.  |

## Section A: Publications of PhD Students

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| <b>WU Yihan</b>                | # <u>WU Yihan</u> , <i>A Grounded Theory Study into the Identity Development of Adolescents with Severe Mental Illness</i> , PhD Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 29 November 2021.   |
| <b>ZHENG Xiaobing</b>          | # <u>ZHENG Xiaobing</u> , <i>Relating Meaning in Life to Subjective Time Experience among Chinese Adolescents</i> , PhD Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 28 December 2021.  |
| <b>College of Science</b>      |   |
| <b>DEPARTMENT OF CHEMISTRY</b> |   |
| <b>Journal publications</b>    |   |
| <b>ARAKELYAN Jemma</b>         | KAMALYAN Alisa, MARGARYAN Yeva, # <u>ARAKELYAN Jemma</u> , SAFARYAN Liana, TAMAMYAN Gevorg, ARAKELYAN Stella, "Cancer and Armed Conflict: Crossing Realities", <i>Journal of Clinical Oncology</i> , 14 June 2022, pp JCO2200663, doi: <a href="https://doi.org/10.1200/JCO.22.00663">https://doi.org/10.1200/JCO.22.00663</a> .  |
|                                | # <u>ARAKELYAN Jemma</u> , MOVSISYAN Alisa, SARGSYAN Lilit, CHOPIKYAN Armine, ANDREASYAN Diana, TOROSYAN Arevik, POPYAN Ruzanna, VARDEVANYAN Hovhannes, BARDAKHCHYAN Samvel, TADEVOSYAN Artashes, TAMAMYAN Gevorg, TANANYAN Armen, DANIELYAN Samvel, KAZANDJIAN Dickran, "Incidence patterns and review of Hodgkin lymphoma in the Republic of Armenia", <i>ecancermedicalscience</i> , 15, 18 November 2021, doi: <a href="https://doi.org/10.3332/ecancer.2021.1319">https://doi.org/10.3332/ecancer.2021.1319</a> .                            |
| <b>CAO Chen</b>                | XIE Ziyang, # <u>CAO Chen</u> , ZOU Yang, CAO Xiaosong, ZHOU Changjiang, HE Jiawei, <u>LEE Chun Sing</u> , YANG Chuluo, "Molecular Engineering Enables TADF Emitters Well Suitable for Non-Doped OLEDs with External Quantum Efficiency of Nearly 30%", <i>Advanced Functional Materials</i> , 32(19), 04 February 2022, doi: <a href="https://doi.org/10.1002/adfm.202112881">https://doi.org/10.1002/adfm.202112881</a> .   |
|                                | YANG Sirui, # <u>CAO Chen</u> , LI Jiayu, DENG Ziqi, NI Shaofei, JIAN Jing-Xin, TONG Qingxiao, DANG Li, LI Ming-De, "Unveiling the $\pi$ -Chain Effect on Charge Transfer and Charge Recombination among Donor- $\pi$ -Acceptor Material Systems", <i>Journal of Physical Chemistry C</i> , 126(2), 10 January 2022, pp 1076-1084, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c09884">https://doi.org/10.1021/acs.jpcc.1c09884</a> .   |
|                                | JIN Jibiao, <u>ZHU Zelin</u> , # <u>YAN Jie</u> , ZHOU Xiwen, # <u>CAO Chen</u> , CHOU Pi-Tai, ZHANG Ye-Xin, # <u>ZHENG Zhong</u> , <u>LEE Chun Sing</u> , <u>CHI Yun</u> , "Iridium(III) Phosphors-Bearing Functional 9-Phenyl-7,9-dihydro-8H-purin-8-ylidene Chelates and Blue Hyperphosphorescent OLED Devices", <i>Advanced Photonics Research</i> , 3(7), 08 March 2022, doi: <a href="https://doi.org/10.1002/adpr.202100381">https://doi.org/10.1002/adpr.202100381</a> .  |
|                                | <u>YUAN Yi</u> , FENG Zhe, LI Shengliang, HUANG Zhongming, WAN Yingpeng, # <u>CAO Chen</u> , LIN Sien, WU Lan, ZHOU Jing, LIAO Liang-Sheng, QIAN Jun, <u>LEE Chun Sing</u> , "Molecular Programming of NIR-IIb-Emissive Semiconducting Small Molecules for In Vivo High-Contrast Bioimaging Beyond 1500 nm", <i>Advanced Materials</i> , 34(19), 08 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201263">https://doi.org/10.1002/adma.202201263</a> .  |
|                                | TAN Hong-Ji, YANG Guo-Xi, DENG Ying-Lan, # <u>CAO Chen</u> , # <u>TAN Jihua</u> , <u>ZHU Zelin</u> , CHEN Wencheng, <u>XIONG Yuan</u> , JIAN Jing-Xin, <u>LEE Chun Sing</u> , TONG Qingxiao, "Deep-Blue OLEDs with Rec.2020 Blue Gamut Compliance and EQE Over 22% Achieved by Conformation Engineering", <i>Advanced Materials</i> , 34(18), 02 March 2022, doi: <a href="https://doi.org/10.1002/adma.202200537">https://doi.org/10.1002/adma.202200537</a> .   |
|                                | <u>ZHU Zelin</u> , WANG Sheng Fu, FU Li-Wen, # <u>TAN Jihua</u> , # <u>CAO Chen</u> , <u>YUAN Yi</u> , <u>YIU Shek Man Ken</u> , ZHANG Ye-Xin, <u>CHI Yun</u> , <u>LEE Chun Sing</u> , "Efficient Pyrazolo[5,4-f]quinoxaline Functionalized Os(II) Based Emitter with an Electroluminescence Peak Maximum at 811 nm", <i>Chemistry - A European Journal</i> , 28(4), 23 November 2021, doi: <a href="https://doi.org/10.1002/chem.202103202">https://doi.org/10.1002/chem.202103202</a> .   |
|                                | WANG Ruifang, LI Zhiyi, HU Taiping, TIAN Lei, HU Xiaoxiao, <u>LIU Shihao</u> , # <u>CAO Chen</u> , <u>ZHU Zelin</u> , # <u>TAN Jihua</u> , YI Yuanping, WANG Pengfei, <u>LEE Chun Sing</u> , WANG Ying, "Two-Channel Space Charge Transfer-Induced Thermally Activated Delayed Fluorescent Materials for Efficient OLEDs with Low Efficiency Roll-Off", <i>ACS Applied Materials and Interfaces</i> , 13(41), 06 October 2021, pp 49066-49075, doi: <a href="https://doi.org/10.1021/acsami.1c12627">https://doi.org/10.1021/acsami.1c12627</a> . |

## Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
| <b>CAO Xiaohu</b>     | #SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, YE Ruquan, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i> , 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a> .   |
|                       | #GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, ZHU He, ZHENG Tingting, WANG Zhaoyu, LI Hao, FAN Zhanxi, LIU Qi, ZENG Zhiyuan, DONG Juncai, XIA Chuan, TANG Ben Zhong, YE Ruquan, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO <sub>2</sub> to Formate", <i>Small</i> , 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a> . |
|                       | #LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO <sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i> , 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a> .  |
| <b>CAO Yaru</b>       | #CAO Yaru, #XU Shaopeng, ZHANG Kai, #LIN Huiju, WU Rongben, #LAO Jiayong, #TAO Danyang, LIU Mengyang, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Spatiotemporal occurrence of phthalate esters in stormwater drains of Hong Kong, China: Mass loading and source identification", <i>Environmental Pollution</i> , 308, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.119683">https://doi.org/10.1016/j.envpol.2022.119683</a> .   |
|                       | #CAO Yaru, LI Jing, WU Rongben, #LIN Huiju, #LAO Jiayong, RUAN Yuefei Phoebe, ZHANG Kai, WU Jiaxue, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Phthalate esters in seawater and sediment of the northern South China Sea: Occurrence, distribution, and ecological risks", <i>Science of the Total Environment</i> , 811, 04 November 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.151412">https://doi.org/10.1016/j.scitotenv.2021.151412</a> .   |
|                       | #CAO Yaru, #LIN Huiju, ZHANG Kai, #XU Shaopeng, YAN Meng, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Microplastics: A major source of phthalate esters in aquatic environments", <i>Journal of Hazardous Materials</i> , 432, 17 March 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128731">https://doi.org/10.1016/j.jhazmat.2022.128731</a> .  |
|                       | #XU Shaopeng, CHEN Luoluo, ZHANG Kai, #CAO Yaru, MA Yue, CHAU Hoi Shan, #TAO Danyang, WU Chenxi, LI Chengtao, LAM Kwan Sing Paul, "Microplastic occurrence in the northern South China Sea, A case for Pre and Post cyclone analysis", <i>Chemosphere</i> , 296, 14 February 2022, doi: <a href="https://doi.org/10.1016/j.chemosphere.2022.133980">https://doi.org/10.1016/j.chemosphere.2022.133980</a> .   |
| <b>CHAN Shing Lun</b> | #HAN Jingqi, #CHUN Yuen Kiu, #CHAN Shing Lun, CHENG Shun Cheung, YIU Shek Man Ken, KO Chi Chiu Vincent, "Development of Dual Phosphorescent Materials Based on Multiple Stimuli-Responsive Ir(III) Acyclic Carbene Complexes", <i>CCS Chemistry</i> , 4(7), 16 August 2021, pp 2354-2368, doi: <a href="https://doi.org/10.31635/ccschem.021.202101016">https://doi.org/10.31635/ccschem.021.202101016</a> .  |
|                       | CHENG Shun Cheung, #CHAN Shing Lun, PHILLIPS David Lee, KO Chi Chiu Vincent, "Excited-State Dynamics of Phosphorescent Trinuclear Re(I) Complexes", <i>European Journal of Inorganic Chemistry</i> , 06 June 2022, doi: <a href="https://doi.org/10.1002/ejic.202200318">https://doi.org/10.1002/ejic.202200318</a> .   |
| <b>CHEN Huan</b>      | #CHEN Huan, #WAN Yingpeng, CUI Xiao, LI Shengliang, LEE Chun Sing, "Recent Advances in Hypoxia-Overcoming Strategy of Aggregation-Induced Emission Photosensitizers for Efficient Photodynamic Therapy", <i>Advanced Healthcare Materials</i> , 10(24), 21 October 2021, doi: <a href="https://doi.org/10.1002/adhm.202101607">https://doi.org/10.1002/adhm.202101607</a> .   |
|                       | #XIAO Yafang, CHEN Wencheng, CHEN Jiexiong, LU Guihong, #TIAN Shuang, CUI Xiao, ZHANG Zhen, #CHEN Huan, #WAN Yingpeng, LI Shengliang, LEE Chun Sing, "Amplifying Free Radical Generation of AIE Photosensitizer with Small Singlet-Triplet Splitting for Hypoxia-Overcoming Photodynamic Therapy", <i>ACS Applied Materials and Interfaces</i> , 14(4), 20 January 2022, pp 5112-5121, doi: <a href="https://doi.org/10.1021/acsami.1c23797">https://doi.org/10.1021/acsami.1c23797</a> .                               |
| <b>CHEN Lin</b>       | #CHEN Lin, TANG Jian-wei, LIU Yan Yee, MATSUDA Yudai, "Aspcandine: A Pyrrolobenzazepine Alkaloid Synthesized by a Fungal Nonribosomal Peptide Synthetase-Polyketide Synthase Hybrid", <i>Organic Letters</i> , 24(26), 24 June 2022, pp 4816-4819, doi: <a href="https://doi.org/10.1021/acs.orglett.2c01918">https://doi.org/10.1021/acs.orglett.2c01918</a> .   |
| <b>CHEN Qingxin</b>   | #LI Huangxu, GUAN Chaohong, ZHANG Jie, #CHENG Ke, #CHEN Qingxin, HE Liang, GE Xiaochen, LAI Yanqing, SUN Hongyan, ZHANG Zhian, "Robust Artificial Interphases Constructed by a Versatile Protein-Based Binder for High-Voltage Na-Ion Battery   |

## Section A: Publications of PhD Students

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|---------------------|---|
|                     | <p>Cathodes", <i>Advanced Materials</i>, 13 May 2022, doi: <a href="https://doi.org/10.1002/adma.202202624">https://doi.org/10.1002/adma.202202624</a>.</p> <p><u>YANG Liu</u>, CHEN Suyuan, YI Dong, #<u>CHEN Qingxin</u>, #<u>ZHANG Jie</u>, XIE Yusheng, <u>SUN Hongyan</u>, "Synthesis and fluorescence properties of red-to-near-infrared-emitting push-pull dyes based on benzodioxazole scaffolds", <i>Journal of Materials Chemistry B</i>, 9(40), 01 September 2021, pp 8512-8517, doi: <a href="https://doi.org/10.1039/d1tb01189h">https://doi.org/10.1039/d1tb01189h</a>.</p> <p><u>YANG Liu</u>, #<u>LIU Guopan</u>, #<u>CHEN Qingxin</u>, #<u>WAN Yingpeng</u>, #<u>LIU Zhiyang</u>, #<u>ZHANG Jie</u>, #<u>HUANG Chen</u>, XU Zhiqiang, <u>LI Shengliang</u>, <u>LEE Chun Sing</u>, <u>ZHANG Liang</u>, <u>SUN Hongyan</u>, "An Activatable NIR Probe for the Detection and Elimination of Senescent Cells", <i>Analytical Chemistry</i>, 94(13), 23 March 2022, pp 5425-5431, doi: <a href="https://doi.org/10.1021/acs.analchem.2c00239">https://doi.org/10.1021/acs.analchem.2c00239</a>.</p> <p><u>YANG Liu</u>, XIE Yusheng, #<u>CHEN Qingxin</u>, #<u>ZHANG Jie</u>, LI Lin, <u>SUN Hongyan</u>, "Colorimetric and fluorescent dual-signal chemosensor for lysine and arginine and its application to detect amines in solid-phase peptide synthesis", <i>ACS Applied Bio Materials</i>, 4(8), 03 August 2021, pp 6558-6564, doi: <a href="https://doi.org/10.1021/acsabm.1c00715">https://doi.org/10.1021/acsabm.1c00715</a>.</p> |
| <b>CHEN Shu</b>     | <p>#<u>YAO Houzong</u>, WANG Zhigang, <u>WANG Na</u>, #<u>DENG Zhiqin</u>, #<u>LIU Gongyuan</u>, ZHOU Jianghong, #<u>CHEN Shu</u>, <u>SHI Jiahai</u>, <u>ZHU Guangyu</u>, "Enhancing Circulation and Tumor Accumulation of Carboplatin via an Erythrocyte-Anchored Prodrug Strategy", <i>Angewandte Chemie - International Edition</i>, 61(25), 30 March 2022, doi: <a href="https://doi.org/10.1002/anie.202203838">https://doi.org/10.1002/anie.202203838</a>.</p> <p>#<u>CHEN Shu</u>, NG Ka Yan, #<u>ZHOU Qiyuan</u>, #<u>YAO Houzong</u>, #<u>DENG Zhiqin</u>, <u>TSE Man Kit</u>, <u>ZHU Guangyu</u>, "The influence of different carbonate ligands on the hydrolytic stability and reduction of platinum(IV) prodrugs", <i>Dalton Transactions</i>, 51(3), 13 December 2021, doi: <a href="https://doi.org/10.1039/d1dt03959h">https://doi.org/10.1039/d1dt03959h</a>.</p>   |
| <b>CHEN Weilong</b> | <p><u>CAO Chunyan</u>, #<u>HUANG Xin</u>, #<u>LYU Dong</u>, #<u>AI Liqing</u>, #<u>CHEN Weilong</u>, #<u>HOU Changshun</u>, #<u>YI Bo</u>, <u>LUO Jingdong</u>, <u>YAO Xi</u>, "Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization", <i>Materials Horizons</i>, 8(12), 08 October 2021, pp 3399-3408, doi: <a href="https://doi.org/10.1039/d1mh00924a">https://doi.org/10.1039/d1mh00924a</a>.</p> <p>#<u>ZHANG Di</u>, #<u>ZOU Jie</u>, #<u>CHEN Weilong</u>, <u>YIU Shek Man Ken</u>, <u>TSE Man Kit</u>, <u>LUO Jingdong</u>, <u>JEN Alex</u>, "Efficient, Stable, and Scalable Push-Pull Heptamethines for Electro-Optics", <i>Chemistry of Materials</i>, 34(8), 08 April 2022, pp 3683-3693, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c04339">https://doi.org/10.1021/acs.chemmater.1c04339</a>.</p>   |
| <b>CHEN Xin</b>     | <p>ZHENG Fangyuan, GUO Deping, #<u>HUANG Lingli</u>, WONG Lok Wing, #<u>CHEN Xin</u>, WANG Cong, CAI Yuan, WANG Ning, <u>LEE Chun Sing</u>, LAU Shu-Ping, <u>LY Thuc Hue</u>, JI Wei, ZHAO Jiong, "Sub-Nanometer Electron Beam Phase Patterning in 2D Materials", <i>Advanced Science</i>, 16 June 2022, doi: <a href="https://doi.org/10.1002/advs.202200702">https://doi.org/10.1002/advs.202200702</a>.</p> <p>#<u>CHEN Xin</u>, WONG Lok Wing, #<u>HUANG Lingli</u>, ZHENG Fangyuan, HUANG Ran, LAU Shu-Ping, <u>LEE Chun Sing</u>, ZHAO Jiong, DENG Qingming, <u>LY Thuc Hue</u>, "Unveiling the Critical Intermediate Stages During Chemical Vapor Deposition of Two-Dimensional Rhenium Diselenide", <i>Chemistry of Materials</i>, 33(17), 02 September 2021, pp 7039-7046, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c02144">https://doi.org/10.1021/acs.chemmater.1c02144</a>.</p>   |
| <b>CHENG Ke</b>     | <p>#<u>MENG Lingkuan</u>, CHAN Wai-Sum, #<u>HUANG Lei</u>, #<u>LIU Linjing</u>, #<u>CHEN Xingjian</u>, #<u>ZHANG Weitong</u>, #<u>WANG Fuzhou</u>, #<u>CHENG Ke</u>, <u>SUN Hongyan</u>, <u>WONG Ka Chun</u>, "Mini-review: Recent advances in post-translational modification site prediction based on deep learning", <i>Computational and Structural Biotechnology Journal</i>, 20, 01 January 2022, pp 3522-3532, doi: <a href="https://doi.org/10.1016/j.csbj.2022.06.045">https://doi.org/10.1016/j.csbj.2022.06.045</a>.</p> <p>#<u>LI Huangxu</u>, GUAN Chaohong, <u>ZHANG Jie</u>, #<u>CHENG Ke</u>, #<u>CHEN Qingxin</u>, HE Liang, GE Xiaochen, LAI Yanqing, <u>SUN Hongyan</u>, ZHANG Zhian, "Robust Artificial Interphases Constructed by a Versatile Protein-Based Binder for High-Voltage Na-Ion Battery Cathodes", <i>Advanced Materials</i>, 13 May 2022, doi: <a href="https://doi.org/10.1002/adma.202202624">https://doi.org/10.1002/adma.202202624</a>.</p>  |
| <b>CHENG Le</b>     | <p>#<u>ZHANG Binghao</u>, #<u>CHENG Le</u>, #<u>HUANG Libei</u>, #<u>TANG Yu</u>, <u>FANG Yongjin</u>, LI Tao, <u>YE Ruquan</u>, <u>LIU Qi</u>, "Anomalous Self-Optimizing Microporous Graphene-Based Lithium-ion Battery Anode from Laser Activation of Small Organic Molecules", <i>Small Methods</i>, 6(8), 26 June 2022, doi: <a href="https://doi.org/10.1002/smt.202200280">https://doi.org/10.1002/smt.202200280</a>.</p>  |

## Section A: Publications of PhD Students

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|---------------------------------|--|
|                                 | <p>#HUANG Libei, #GUO Weihua, #CHENG Le, #SU Jianjun, #SONG Yun, HU Fei-Jun, LAW Ying Lo, YAN Zheng, LIN Jian, <u>YE Ruquan</u>, "Differentiating structure of in situ and ex situ formation of laser-induced graphene hybrids", <i>Rare Metals</i>, 41(9), 23 June 2022, pp 3035–3044, doi: <a href="https://doi.org/10.1007/s12598-022-02027-9">https://doi.org/10.1007/s12598-022-02027-9</a>.</p> <p>#SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, <u>YE Ruquan</u>, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i>, 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a>.</p> <p>GU Meijia, #HUANG Libei, WANG Zhaoyu , #GUO Weihua, #CHENG Le, YUAN Yuncong, ZHOU Zhou, HU Liu, CHEN Sijie, SHEN Chao, TANG Ben Zhong, <u>YE Ruquan</u>, "Molecular Engineering of Laser-Induced Graphene for Potential-Driven Broad-Spectrum Antimicrobial and Antiviral Applications", <i>Small</i>, 17(51), 20 October 2021, doi: <a href="https://doi.org/10.1002/sml.202102841">https://doi.org/10.1002/sml.202102841</a>.</p> <p>#GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, <u>ZHU He</u>, ZHENG Tingting, WANG Zhaoyu , LI Hao, <u>FAN Zhanxi</u>, <u>LIU Qi</u>, <u>ZENG Zhiyuan</u>, DONG Juncai, XIA Chuan, TANG Ben Zhong, <u>YE Ruquan</u>, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO<sub>2</sub> to Formate", <i>Small</i>, 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a>.</p> <p>#LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, <u>YE Ruquan</u>, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p> |
| <b>CHI Banlan</b>               | <p><u>LAI Zhuangchai</u>, #YAO Yao, #LI Siyuan, MA Lu, ZHANG Qinghua, <u>GE Yiyao</u>, #ZHAI Wei, #CHI Banlan, <u>CHEN Bo</u>, #LI Lujiang, WANG Lei, ZHENG Zijian, GU Lin, DU Yonghua, <u>ZHANG Hua</u>, "Salt-Assisted 2H-to-1T' Phase Transformation of Transition Metal Dichalcogenides", <i>Advanced Materials</i>, 34(26), 18 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201194">https://doi.org/10.1002/adma.202201194</a>.</p>  |
| <b>CHUN Yuen Kiu</b>            | <p>#HAN Jingqi, #CHUN Yuen Kiu, #CHAN Shing Lun, CHENG Shun Cheung, <u>YIU Shek Man Ken</u>, <u>KO Chi Chiu Vincent</u>, "Development of Dual Phosphorescent Materials Based on Multiple Stimuli-Responsive Ir(III) Acyclic Carbene Complexes", <i>CCS Chemistry</i>, 4(7), 16 August 2021, pp 2354-2368, doi: <a href="https://doi.org/10.31635/ccschem.021.202101016">https://doi.org/10.31635/ccschem.021.202101016</a>.</p>  |
| <b>DEMISSIE Ephrem Gizachew</b> | <p>#DEMISSIE Ephrem Gizachew, TANG Wai Kit, <u>SIU Chi Kit Andy</u>, "Structure-Property Relationship of Oxygen-Doped Two-Dimensional Gallium Selenide for Hydrogen Evolution Reaction Revealed from Density Functional Theory", <i>ACS Applied Energy Materials</i>, 5(5), 03 May 2022, pp 6070-6079, doi: <a href="https://doi.org/10.1021/acsaem.2c00472">https://doi.org/10.1021/acsaem.2c00472</a>.</p> <p>#DEMISSIE Ephrem Gizachew, <u>LAM Wing Ka</u>, #THOMPSON Hayden Ross, <u>TANG Wai Kit</u>, <u>SIU Chi Kit Andy</u>, "Decomposition of Nitrous Oxide in Hydrated Cobalt(I) Clusters: A Theoretical Insight into the Mechanistic Roles of Ligand-binding Modes", <i>Physical Chemistry Chemical Physics</i>, 23(31), 06 July 2021, pp 16816-16826, doi: <a href="https://doi.org/10.1039/D1CP01820E">https://doi.org/10.1039/D1CP01820E</a>.</p>   |
| <b>DENG Zhiqin</b>              | <p>#LI Bo, #LIU Jiahua, LYU Fucong, #DENG Zhiqin, #YI Bo, #DU Peng, <u>YAO Xi</u>, <u>ZHU Guangyu</u>, XU Zhengtao, <u>LU Jian</u>, <u>LI Yangyang</u>, "Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the Origin of Life", <i>Advanced Functional Materials</i>, 32(13), 07 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202109302">https://doi.org/10.1002/adfm.202109302</a>.</p> <p>#YAO Houzong, WANG Zhigang, <u>WANG Na</u>, #DENG Zhiqin, #LIU Gongyuan, ZHOU Jianghong, #CHEN Shu, <u>SHI Jiahai</u>, <u>ZHU Guangyu</u>, "Enhancing Circulation and Tumor Accumulation of Carboplatin via an Erythrocyte-Anchored Prodrug Strategy", <i>Angewandte Chemie - International Edition</i>, 61(25), 30 March 2022, doi: <a href="https://doi.org/10.1002/anie.202203838">https://doi.org/10.1002/anie.202203838</a>.</p> <p>#CHEN Shu, NG Ka Yan, #ZHOU Qiyuan, #YAO Houzong, #DENG Zhiqin, <u>TSE Man Kit</u>, <u>ZHU Guangyu</u>, "The influence of different carbonate ligands on the hydrolytic stability and reduction of platinum(IV) prodrugs", <i>Dalton Transactions</i>, 51(3), 13 December 2021, doi: <a href="https://doi.org/10.1039/d1dt03959h">https://doi.org/10.1039/d1dt03959h</a>.</p>  |



## Section A: Publications of PhD Students

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|              | <p>WANG Na, #DENG Zhiqin, #ZHU Qi, ZHAO Jianxiong, XIE Kai, SHI Peng, WANG Zhigang, CHEN Xianfeng, WANG Feng, SHI Jiahai, ZHU Guangyu, "An erythrocyte-delivered photoactivatable oxaliplatin nanoprodruge for enhanced antitumor efficacy and immune response", <i>Chemical Science</i>, 12(43), 06 October 2021, pp 14353-14362, doi: <a href="https://doi.org/10.1039/d1sc02941j">https://doi.org/10.1039/d1sc02941j</a>.</p>  |
| DOU Yubing   | <p>#SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, YE Ruquan, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i>, 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a>.</p> <p>#GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, ZHU He, ZHENG Tingting, WANG Zhaoyu, LI Hao, FAN Zhanxi, LIU Qi, ZENG Zhiyuan, DONG Juncai, XIA Chuan, TANG Ben Zhong, YE Ruquan, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO<sub>2</sub> to Formate", <i>Small</i>, 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a>.</p> <p>#LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p>   |
| FENG Hengxin | <p>#FENG Hengxin, KWOK Chun Kit, "Spectroscopic analysis reveals the effect of hairpin loop formation on G-quadruplex structures", <i>RSC Chemical Biology</i>, 3(4), 10 March 2022, pp 431-435, doi: <a href="https://doi.org/10.1039/d2cb00045h">https://doi.org/10.1039/d2cb00045h</a>.</p>  |
| FENG Yongyi  | <p>XIAO Yelan, CHENG Shun Cheung, #FENG Yongyi, SHI Zhen, HUANG Zhenjia, TSUI Gary, #ARAVA Clementmanohar, VELLAISAMY Arul Lenus Roy, KO Chi Chiu Vincent, "Photoredox Catalysis for the Fabrication of Water-Repellent Surfaces with Application for Oil/Water Separation", <i>Langmuir</i>, 37(39), 24 September 2021, pp 11592-11602, doi: <a href="https://doi.org/10.1021/acs.langmuir.1c01926">https://doi.org/10.1021/acs.langmuir.1c01926</a>.</p> <p>#FENG Yongyi, NG Chi On, TONG Ka Ming, CHENG Shun Cheung, CHAN Lok Lam, KO Chi Chiu Vincent, "Study of Re(I) Carbene Complexes for Photocatalytic Reduction of Carbon Dioxide", <i>Energy and Fuels</i>, 35(23), 28 September 2021, pp 19170-19177, doi: <a href="https://doi.org/10.1021/acs.energyfuels.1c02372">https://doi.org/10.1021/acs.energyfuels.1c02372</a>.</p>   |
| GAO Danpeng  | <p>#LI Zhen, LI Bo, #WU Xin, SHEPPARD Stephanie A., ZHANG Shoufeng, #GAO Danpeng, LONG Nicholas J., ZHU Zonglong, "Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells", <i>Science</i>, 376(6591), 21 April 2022, pp 416-420, doi: <a href="https://doi.org/10.1126/science.abm8566">https://doi.org/10.1126/science.abm8566</a>.</p> <p>#LI Zhen, #WU Xin, WU Shengfan, #GAO Danpeng, DONG Hua, HUANG Fuzhi, HU Xiaotian, JEN Alex, ZHU Zonglong, "An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics", <i>Nano Energy</i>, 93, 18 December 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106853">https://doi.org/10.1016/j.nanoen.2021.106853</a>.</p> <p>#LI Zhen, #WU Xin, #LI Bo, ZHANG Shoufeng, #GAO Danpeng, #LIU Yizhe, #LI Xintong, ZHANG Ningbin, HU Xiaotian, ZHI Chunyi, JEN Alex, ZHU Zonglong, "Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules", <i>Advanced Energy Materials</i>, 12(5), 22 December 2021, doi: <a href="https://doi.org/10.1002/aenm.202103236">https://doi.org/10.1002/aenm.202103236</a>.</p> <p>LI Bo, #WU Xin, ZHANG Shoufeng, #LI Zhen, #GAO Danpeng, CHEN Xiankai, XIAO Shuang, CHUEH Chu-Chen, JEN Alex, ZHU Zonglong, "Efficient and stable Cs<sub>2</sub>AgBiBr<sub>6</sub> double perovskite solar cells through in-situ surface modulation", <i>Chemical Engineering Journal</i>, 446(3), 23 May 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137144">https://doi.org/10.1016/j.cej.2022.137144</a>.</p> |
| GU Jiarui    | <p>#WANG Qi, RUAN Yuefei Phoebe, JIN Linjie, #LIN Huiju, YAN Meng, #GU Jiarui, #YUEN Nim Tung Calista, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Tissue-Specific Uptake, Depuration Kinetics, and Suspected Metabolites of Three Emerging Per- and Polyfluoroalkyl Substances (PFASs) in Marine Medaka", <i>Environmental Science and Technology</i>, 56(10), 19 April 2022, doi: <a href="https://doi.org/10.1021/acs.est.1c07643">https://doi.org/10.1021/acs.est.1c07643</a>.</p>  |
| GUO Weihua   | <p>#HUANG Libei, #GUO Weihua, #CHENG Le, #SU Jianjun, #SONG Yun, HU Fei-Jun, LAW Ying Lo, YAN Zheng, LIN Jian, YE Ruquan, "Differentiating structure of in situ and ex situ formation of laser-induced graphene hybrids", <i>Rare Metals</i>, 41(9), 23 June 2022, pp 3035-3044, doi: <a href="https://doi.org/10.1007/s12598-022-02027-9">https://doi.org/10.1007/s12598-022-02027-9</a>.</p>  |

## Section A: Publications of PhD Students

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|            | <p>#SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, YE Ruquan, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i>, 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a>.</p>   |
|            | <p>#MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p> |
|            | <p>GU Meijia, #HUANG Libei, WANG Zhaoyu, #GUO Weihua, #CHENG Le, YUAN Yuncong, ZHOU Zhou, HU Liu, CHEN Sijie, SHEN Chao, TANG Ben Zhong, YE Ruquan, "Molecular Engineering of Laser-Induced Graphene for Potential-Driven Broad-Spectrum Antimicrobial and Antiviral Applications", <i>Small</i>, 17(51), 20 October 2021, doi: <a href="https://doi.org/10.1002/sml.202102841">https://doi.org/10.1002/sml.202102841</a>.</p>   |
|            | <p>#GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, ZHU He, ZHENG Tingting, WANG Zhaoyu, LI Hao, FAN Zhanxi, LIU Qi, ZENG Zhiyuan, DONG Juncai, XIA Chuan, TANG Ben Zhong, YE Ruquan, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO<sub>2</sub> to Formate", <i>Small</i>, 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a>.</p>  |
|            | <p>#LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p>   |
| HAN Jingqi | <p>#HAN Jingqi, CHENG Shun Cheung, YIU Shek Man Ken, TSE Man Kit, KO Chi Chiu Vincent, "Luminescent monomeric and dimeric Ru(II) acyclic carbene complexes as selective sensors for NH<sub>3</sub>/amine vapor and humidity", <i>Chemical Science</i>, 12(42), 05 October 2021, pp 14103-14110, doi: <a href="https://doi.org/10.1039/d1sc04074j">https://doi.org/10.1039/d1sc04074j</a>.</p>  |
|            | <p>#HAN Jingqi, #CHUN Yuen Kiu, #CHAN Shing Lun, CHENG Shun Cheung, YIU Shek Man Ken, KO Chi Chiu Vincent, "Development of Dual Phosphorescent Materials Based on Multiple Stimuli-Responsive Ir(III) Acyclic Carbene Complexes", <i>CCS Chemistry</i>, 4(7), 16 August 2021, pp 2354-2368, doi: <a href="https://doi.org/10.31635/ccschem.021.202101016">https://doi.org/10.31635/ccschem.021.202101016</a>.</p>  |
| HE Zhen    | <p>#ZHAI Wei, #XIONG Tengfei, #HE Zhen, #LU Shiyao, LAI Zhuangchai, HE Qiyuan, TAN Chaoliang, ZHANG Hua, "Nanodots Derived from Layered Materials: Synthesis and Applications", <i>Advanced Materials</i>, 33(46), 01 July 2021, doi: <a href="https://doi.org/10.1002/adma.202006661">https://doi.org/10.1002/adma.202006661</a>.</p>   |
|            | <p>#MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p> |
|            | <p>#LIANG Jinzhe, GE Yiyao, #HE Zhen, YUN Qinbai, LIU Guigao, #LU Shiyao, #ZHAI Li, #HUANG Biao, ZHANG Hua, "Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials", <i>Nano Research</i>, 20 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-4007-6">https://doi.org/10.1007/s12274-021-4007-6</a>.</p>   |
|            | <p>#ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with <i>fcc</i>-2H- <i>fcc</i> Heterophase for Highly Efficient Electrocatalytic</p>  |

## Section A: Publications of PhD Students

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|                    | Alcohol Oxidation", <i>Journal of the American Chemical Society</i> , 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a> .  |
| <b>HU Qiushi</b>   | #SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, YE Ruquan, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i> , 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a> .   |
|                    | #LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO <sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i> , 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a> .  |
| <b>HUANG Biao</b>  | GE Yiyao, #WANG Xixi, #HUANG Biao, HUANG Zhiqi, CHEN Bo, LING Chongyi, LIU Jiawei, LIU Guanghua, ZHANG Jie, WANG Gang, CHEN Ye, #LI Lujiang, LIAO Lingwen, WANG Lei, YUN Qinbai, LAI Zhuangchai, #LU Shiyao, #LUO Qinxin, WANG Jinlan, ZHENG Zijian, ZHANG Hua, "Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction", <i>Journal of the American Chemical Society</i> , 143(41), 06 October 2021, pp 17292-17299, doi: <a href="https://doi.org/10.1021/jacs.1c08973">https://doi.org/10.1021/jacs.1c08973</a> .  |
|                    | GE Yiyao, #WANG Xixi, CHEN Bo, HUANG Zhiqi, SHI Zhenyu, #HUANG Biao, LIU Jiawei, WANG Gang, CHEN Ye, #LI Lujiang, #LU Shiyao, #LUO Qinxin, YUN Qinbai, ZHANG Hua, "Preparation of fcc-2H-fcc Heterophase Pd@Ir Nanostructures for High-Performance Electrochemical Hydrogen Evolution", <i>Advanced Materials</i> , 34(4), 31 October 2021, doi: <a href="https://doi.org/10.1002/adma.202107399">https://doi.org/10.1002/adma.202107399</a> .  |
|                    | #LIANG Jinzhe, GE Yiyao, #HE Zhen, YUN Qinbai, LIU Guigao, #LU Shiyao, #ZHAI Li, #HUANG Biao, ZHANG Hua, "Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials", <i>Nano Research</i> , 20 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-4007-6">https://doi.org/10.1007/s12274-021-4007-6</a> .   |
|                    | #ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with fcc-2H- fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i> , 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a> . |
|                    |   |
| <b>HUANG Chen</b>  | YANG Liu, #LIU Guopan, #CHEN Qingxin, #WAN Yingpeng, #LIU Zhiyang, #ZHANG Jie, #HUANG Chen, XU Zhiqiang, LI Shengliang, LEE Chun Sing, ZHANG Liang, SUN Hongyan, "An Activatable NIR Probe for the Detection and Elimination of Senescent Cells", <i>Analytical Chemistry</i> , 94(13), 23 March 2022, pp 5425-5431, doi: <a href="https://doi.org/10.1021/acs.analchem.2c00239">https://doi.org/10.1021/acs.analchem.2c00239</a> .   |
| <b>HUANG Libei</b> | #ZHANG Binghao, #CHENG Le, #HUANG Libei, #TANG Yu, FANG Yongjin, LI Tao, YE Ruquan, LIU Qi, "Anomalous Self-Optimizing Microporous Graphene-Based Lithium-ion Battery Anode from Laser Activation of Small Organic Molecules", <i>Small Methods</i> , 6(8), 26 June 2022, doi: <a href="https://doi.org/10.1002/smt.202200280">https://doi.org/10.1002/smt.202200280</a> .  |
|                    | #HUANG Libei, #GUO Weihua, #CHENG Le, #SU Jianjun, #SONG Yun, HU Fei-Jun, LAW Ying Lo, YAN Zheng, LIN Jian, YE Ruquan, "Differentiating structure of in situ and ex situ formation of laser-induced graphene hybrids", <i>Rare Metals</i> , 41(9), 23 June 2022, pp 3035-3044, doi: <a href="https://doi.org/10.1007/s12598-022-02027-9">https://doi.org/10.1007/s12598-022-02027-9</a> .   |
|                    | #SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, YE Ruquan, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i> , 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a> .   |
|                    | #HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano</i>   |

## Section A: Publications of PhD Students

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|                 | <p><i>Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p>  |
|                 | <p>GU Meijia, #HUANG Libei, WANG Zhaoyu, #GUO Weihua, #CHENG Le, YUAN Yuncong, ZHOU Zhou, HU Liu, CHEN Sijie, SHEN Chao, TANG Ben Zhong, YE Ruquan, "Molecular Engineering of Laser-Induced Graphene for Potential-Driven Broad-Spectrum Antimicrobial and Antiviral Applications", <i>Small</i>, 17(51), 20 October 2021, doi: <a href="https://doi.org/10.1002/sml.202102841">https://doi.org/10.1002/sml.202102841</a>.</p>  |
|                 | <p>#GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, ZHU He, ZHENG Tingting, WANG Zhaoyu, LI Hao, FAN Zhanxi, LIU Qi, ZENG Zhiyuan, DONG Juncai, XIA Chuan, TANG Ben Zhong, YE Ruquan, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO<sub>2</sub> to Formate", <i>Small</i>, 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a>.</p> |
|                 | <p>#LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p>  |
| HUANG Lingli    | <p>ZHENG Fangyuan, GUO Deping, #HUANG Lingli, WONG Lok Wing, #CHEN Xin, WANG Cong, CAI Yuan, WANG Ning, LEE Chun Sing, LAU Shu-Ping, LY Thuc Hue, JI Wei, ZHAO Jiong, "Sub-Nanometer Electron Beam Phase Patterning in 2D Materials", <i>Advanced Science</i>, 16 June 2022, doi: <a href="https://doi.org/10.1002/advs.202200702">https://doi.org/10.1002/advs.202200702</a>.</p>  |
|                 | <p>#CHEN Xin, WONG Lok Wing, #HUANG Lingli, ZHENG Fangyuan, HUANG Ran, LAU Shu-Ping, LEE Chun Sing, ZHAO Jiong, DENG Qingming, LY Thuc Hue, "Unveiling the Critical Intermediate Stages During Chemical Vapor Deposition of Two-Dimensional Rhenium Diselenide", <i>Chemistry of Materials</i>, 33(17), 02 September 2021, pp 7039-7046, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c02144">https://doi.org/10.1021/acs.chemmater.1c02144</a>.</p>  |
| HUANG Zhongming | <p>#LIANG Jianli, SONG Qianqian, WU Jianghua, LEI Qi, LI Jing, ZHANG Wei, #HUANG Zhongming, #KANG Tianxing, XU Hui, WANG Peng, ZHOU Xingtai, WONG Po Keung, LI Huaming, MENG Xiangmin, JIANG Zhifeng, LEE Chun Sing, "Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics", <i>ACS Nano</i>, 16(3), 16 February 2022, pp 4152-4161, doi: <a href="https://doi.org/10.1021/acs.nano.1c10003">https://doi.org/10.1021/acs.nano.1c10003</a>.</p>                    |
|                 | <p>#HUANG Zhongming, #WAN Yingpeng, #LIANG Jianli, #XIAO Yafang, #LI Xiaozhen, CUI Xiao, #TIAN Shuang, #ZHAO Qi, LI Shengliang, LEE Chun Sing, "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier", <i>ACS Applied Materials &amp; Interfaces</i>, 13(27), 05 July 2021, pp 31624-31634, doi: <a href="https://doi.org/10.1021/acsami.1c06000">https://doi.org/10.1021/acsami.1c06000</a>.</p>   |
| IO Kai Wa       | <p>#YEUNG Chi Fung, TANG Sik Him, #YANG Zhe, LI Tsun-Yin, LI Ka Kit, CHAN Yuen Man Shirley, #SHEK Hau Lam, #IO Kai Wa, TAM King-Ting, YIU Shek Man Ken, TSE Man Kit, WONG Chun Yuen Alex, "Ruthenafuran Complexes Supported by the Bipyridine-is(diphenylphosphino)methane Ligand Set: Synthesis and Cytotoxicity Studies", <i>Molecules</i>, 27(5), 05 March 2022, doi: <a href="https://doi.org/10.3390/molecules27051709">https://doi.org/10.3390/molecules27051709</a>.</p>   |
| JI Danyang      | <p>#ZHAO Haizhou, #WONG Hei Yuen, #JI Danyang, #LYU Kaixin, KWOK Chun Kit, "Novel L-RNA Aptamer Controls APP Gene Expression in Cells by Targeting RNA G-Quadruplex Structure", <i>ACS Applied Materials &amp; Interfaces</i>, 14(27), 28 June 2022, pp 30582-30594, doi: <a href="https://doi.org/10.1021/acsami.2c06390">https://doi.org/10.1021/acsami.2c06390</a>.</p>  |
|                 | <p>#JI Danyang, #LYU Kaixin, #ZHAO Haizhou, KWOK Chun Kit, "Circular L-RNA aptamer promotes target recognition and controls gene activity", <i>Nucleic Acids Research</i>, 49(13), 07 July 2021, pp 7280-7291, doi: <a href="https://doi.org/10.1093/nar/gkab593">https://doi.org/10.1093/nar/gkab593</a>.</p>  |
| KANG Tianxing   | <p>TONG Zhongqiu, WANG Hui, #KANG Tianxing, #WU Yan, GUAN Zhiqiang, ZHANG Fan, TANG Yongbing, LEE Chun Sing, "Ionic covalent organic frameworks with tailored anionic redox chemistry and selective ion transport for high-performance Na-ion cathodes", <i>Journal of Energy Chemistry</i>, 03 June 2022, doi: <a href="https://doi.org/10.1016/j.jechem.2022.05.044">https://doi.org/10.1016/j.jechem.2022.05.044</a>.</p>  |

Section A: Publications of PhD Students

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|---------------------------|--|
|                           | <p>CHEN Jiahui, #KANG Tianxing, CUI Yan, ZHAO Jingyang, XUE Jianjun, XU Hanliang, NAN Junmin, "A Nonflammable and Thermally Stable Polyethylene/Glass Fiber–Magnesium Hydroxide/Polyethylene Composite Separator with High Mechanical Strength and Electrolyte Retention to Enhance the Performance of Lithium-Ion Batteries", <i>Energy Technology</i>, 10(3), 12 January 2022, doi: <a href="https://doi.org/10.1002/ente.202101040">https://doi.org/10.1002/ente.202101040</a>.</p> <p>#LIANG Jianli, SONG Qianqian, WU Jianghua, LEI Qi, LI Jing, ZHANG Wei, #HUANG Zhongming, #KANG Tianxing, XU Hui, WANG Peng, ZHOU Xingtai, WONG Po Keung, LI Huaming, MENG Xiangmin, JIANG Zhifeng, LEE Chun Sing, "Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics", <i>ACS Nano</i>, 16(3), 16 February 2022, pp 4152–4161, doi: <a href="https://doi.org/10.1021/acsnano.1c10003">https://doi.org/10.1021/acsnano.1c10003</a>.</p> <p>TONG Zhongqiu, #KANG Tianxing, #WAN Yingpeng, #YANG Rui, #WU Yan, SHEN Dong, LIU Shihao, TANG Yongbing, LEE Chun Sing, "A Ca-Ion Electrochromic Battery via a Water-in-Salt Electrolyte", <i>Advanced Functional Materials</i>, 31(41), 14 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104639">https://doi.org/10.1002/adfm.202104639</a>.</p> <p>TONG Zhongqiu, LIAN Ruqian, #YANG Rui, #KANG Tianxing, FENG Jianrui, SHEN Dong, #WU Yan, CUI Xiao, WANG Hui, TANG Yongbing, LEE Chun Sing, "An aqueous aluminum-ion electrochromic full battery with water-in-salt electrolyte for high-energy density", <i>Energy Storage Materials</i>, 44, 03 November 2021, pp 497-507, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.001">https://doi.org/10.1016/j.ensm.2021.11.001</a>.</p> <p>TONG Zhongqiu, #KANG Tianxing, #WU Yan, ZHANG Fan, TANG Yongbing, LEE Chun Sing, "Novel metastable Bi:Co and Bi:Fe alloys nanodots@carbon as anodes for high rate K-ion batteries", <i>Nano Research</i>, 20 May 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4398-z">https://doi.org/10.1007/s12274-022-4398-z</a>.</p> <p>#WU Yan, #ZHU Zhaohua, SHEN Dong, CHEN Lina, #SONG Tianyi, #KANG Tianxing, TONG Zhongqiu, TANG Yongbing, WANG Hui, LEE Chun Sing, "Electrolyte engineering enables stable Zn-Ion deposition for long-cycling life aqueous Zn-ion batteries", <i>Energy Storage Materials</i>, 45, 04 November 2021, pp 1084-1091, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.003">https://doi.org/10.1016/j.ensm.2021.11.003</a>.</p> |
| <b>KHAN Shakeel Ahmad</b> | <p>SELLAMI Hanen, #KHAN Shakeel Ahmad, AHMAD Ishaq, ALARFAJ Abdullah A., HIRAD Abdurahman H., AL-SABRI Ahmed E., "Green Synthesis of Silver Nanoparticles Using <i>Olea europaea</i> Leaf Extract for Their Enhanced Antibacterial, Antioxidant, Cytotoxic and Biocompatibility Applications", <i>International Journal of Molecular Sciences</i>, 22(22), 22 November 2021, doi: <a href="https://doi.org/10.3390/ijms222212562">https://doi.org/10.3390/ijms222212562</a>.</p> <p>LU Haibin, ZHANG Xueyang, #KHAN Shakeel Ahmad, LI Wenqiang, WAN Lei, "Biogenic Synthesis of MnO<sub>2</sub> Nanoparticles With Leaf Extract of <i>Viola betonicifolia</i> for Enhanced Antioxidant, Antimicrobial, Cytotoxic, and Biocompatible Applications", <i>Frontiers in Microbiology</i>, 12, 01 November 2021, doi: <a href="https://doi.org/10.3389/fmicb.2021.761084">https://doi.org/10.3389/fmicb.2021.761084</a>.</p>   |
| <b>LAO Jiayong</b>        | <p>FARID Muhammad Usman, #CHOI Paula Jungwon, #KHARRAZ Jehad Abbaas Abed Alhaleem, #LAO Jiayong, ST-HILAIRE Sophie Natasha, RUAN Yuefei Phoebe, LAM Kwan Sing Paul, AN Kyoung Jin Alicia, "Hybrid nanobubble-forward osmosis system for aquaculture wastewater treatment and reuse", <i>Chemical Engineering Journal</i>, 435(Part 3), 09 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135164">https://doi.org/10.1016/j.cej.2022.135164</a>.</p> <p>#CAO Yaru, #XU Shaopeng, ZHANG Kai, #LIN Huiju, WU Rongben, #LAO Jiayong, #TAO Danyang, LIU Mengyang, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Spatiotemporal occurrence of phthalate esters in stormwater drains of Hong Kong, China: Mass loading and source identification", <i>Environmental Pollution</i>, 308, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.119683">https://doi.org/10.1016/j.envpol.2022.119683</a>.</p> <p>#CAO Yaru, LI Jing, WU Rongben, #LIN Huiju, #LAO Jiayong, RUAN Yuefei Phoebe, ZHANG Kai, WU Jiaxue, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Phthalate esters in seawater and sediment of the northern South China Sea: Occurrence, distribution, and ecological risks", <i>Science of the Total Environment</i>, 811, 04 November 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.151412">https://doi.org/10.1016/j.scitotenv.2021.151412</a>.</p> <p>#LAO Jiayong, RUAN Yuefei Phoebe, LEUNG Mei Yee Kenneth, ZENG Eddy Y., LAM Kwan Sing Paul, "Review on age-specific exposure to organophosphate esters: Multiple</p>  |

Section A: Publications of PhD Students

|                        |  |
|------------------------|--|
|                        | <p>exposure pathways and microenvironments", <i>Critical Reviews in Environmental Science and Technology</i>, 22 June 2022, doi: <a href="https://doi.org/10.1080/10643389.2022.2087428">https://doi.org/10.1080/10643389.2022.2087428</a>.</p> <p>#<a href="#">LAO Jiayong</a>, <a href="#">WU Rongben</a>, <a href="#">CUI Yongsheng</a>, #<a href="#">ZHOU Shiwen</a>, <a href="#">RUAN Yuefei Phoebe</a>, <a href="#">LEUNG Mei Yee Kenneth</a>, <a href="#">WU Jiaxue</a>, <a href="#">ZENG Eddy Y.</a>, <a href="#">LAM Kwan Sing Paul</a>, "Significant input of organophosphate esters through particle-mediated transport into the Pearl River Estuary, China", <i>Journal of Hazardous Materials</i>, 438, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.129486">https://doi.org/10.1016/j.jhazmat.2022.129486</a>.</p>   |
| <b>LEUNG Hoi Man</b>   | <p>#<a href="#">WANG Fei</a>, <a href="#">LIU Ling Sum</a>, #<a href="#">LI Pan</a>, #<a href="#">LEUNG Hoi Man</a>, <a href="#">TAM Dick Yan</a>, <a href="#">LO Pik Kwan Peggy</a>, "Biologically stable threose nucleic acid-based probes for real-time microRNA detection and imaging in living cells", <i>Molecular Therapy - Nucleic Acids</i>, 27, 03 January 2022, pp 787-796, doi: <a href="https://doi.org/10.1016/j.omtn.2021.12.040">https://doi.org/10.1016/j.omtn.2021.12.040</a>.</p> <p>#<a href="#">WANG Fei</a>, <a href="#">LIU Ling Sum</a>, #<a href="#">LI Pan</a>, <a href="#">LAU Cia Hin</a>, #<a href="#">LEUNG Hoi Man</a>, <a href="#">CHIN Rebecca Y M</a>, <a href="#">TIN Chung</a>, <a href="#">LO Pik Kwan Peggy</a>, "Cellular uptake, tissue penetration, biodistribution, and biosafety of threose nucleic acids: Assessing in vitro and in vivo delivery", <i>Materials Today Bio</i>, 15, 18 May 2022, doi: <a href="https://doi.org/10.1016/j.mtbio.2022.100299">https://doi.org/10.1016/j.mtbio.2022.100299</a>.</p>   |
| <b>LEUNG Kam Keung</b> | <p>#<a href="#">LEUNG Kam Keung</a>, <a href="#">LEE Cho Cheung</a>, <a href="#">IP Ka Yan Tiffany</a>, <a href="#">LIU Huawei</a>, <a href="#">YIU Shek Man Ken</a>, <a href="#">LEE Nikki P.</a>, <a href="#">LO Kam Wing Kenneth</a>, "Luminescent rhenium(III) perfluorobiphenyl complexes as site-specific labels for peptides to afford photofunctional bioconjugates", <i>Chemical Communications</i>, 57(85), 29 September 2021, pp 11256-11259, doi: <a href="https://doi.org/10.1039/d1cc04740j">https://doi.org/10.1039/d1cc04740j</a>.</p>   |
| <b>LI Geng</b>         | <p>#<a href="#">SU Jianjun</a>, #<a href="#">LIU Yong</a>, #<a href="#">SONG Yun</a>, #<a href="#">HUANG Libei</a>, #<a href="#">GUO Weihua</a>, #<a href="#">CAO Xiaohu</a>, #<a href="#">DOU Yubing</a>, #<a href="#">CHENG Le</a>, #<a href="#">LI Geng</a>, #<a href="#">HU Qiushi</a>, <a href="#">YE Ruquan</a>, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i>, 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a>.</p> <p>#<a href="#">LI Geng</a>, #<a href="#">LIU Yong</a>, #<a href="#">ZHANG Qiang</a>, #<a href="#">HU Qiushi</a>, #<a href="#">GUO Weihua</a>, #<a href="#">CAO Xiaohu</a>, #<a href="#">DOU Yubing</a>, #<a href="#">CHENG Le</a>, #<a href="#">SONG Yun</a>, #<a href="#">SU Jianjun</a>, #<a href="#">HUANG Libei</a>, <a href="#">YE Ruquan</a>, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p>  |
| <b>LI Huangxu</b>      | <p>#<a href="#">LI Huangxu</a>, <a href="#">WANG Taosheng</a>, <a href="#">WANG Sha</a>, <a href="#">WANG Xu</a>, <a href="#">XIE Yangyang</a>, <a href="#">HU Junxian</a>, <a href="#">LAI Yanqing</a>, <a href="#">ZHANG Zhian</a>, "Scalable Synthesis of the Na<sub>2</sub>FePO<sub>4</sub>F Cathode through an Economical and Reliable Approach for Sodium-Ion Batteries", <i>ACS Sustainable Chemistry and Engineering</i>, 9(35), 25 August 2021, pp 11798-11806, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c03355">https://doi.org/10.1021/acssuschemeng.1c03355</a>.</p> <p><a href="#">ZHENG Jingqiang</a>, <a href="#">GUAN Chaohong</a>, #<a href="#">LI Huangxu</a>, <a href="#">XIE Yangyang</a>, <a href="#">HU Junxian</a>, <a href="#">ZHANG Kai</a>, <a href="#">HONG Bo</a>, <a href="#">LAI Yanqing</a>, <a href="#">LI Jie</a>, <a href="#">ZHANG Zhian</a>, "Unraveling the morphological evolution mechanism of solid sulfur species in lithium-sulfur batteries with <i>operando</i> light microscopy", <i>Journal of Energy Chemistry</i>, 73, 06 May 2022, pp 460-468, doi: <a href="https://doi.org/10.1016/j.jechem.2022.04.041">https://doi.org/10.1016/j.jechem.2022.04.041</a>.</p> <p><a href="#">HU Junxian</a>, <a href="#">GUAN Chaohong</a>, #<a href="#">LI Huangxu</a>, <a href="#">XIE Yangyang</a>, <a href="#">ZHANG Liuyun</a>, <a href="#">ZHENG Jingqiang</a>, <a href="#">LAI Yanqing</a>, <a href="#">ZHANG Zhian</a>, "Boosting potassium-storage performance via confining highly dispersed molybdenum dioxide nanoparticles within N-doped porous carbon nano-octahedrons", <i>Journal of Colloid and Interface Science</i>, 607(2), 15 September 2021, pp 1109-1119, doi: <a href="https://doi.org/10.1016/j.jcis.2021.09.068">https://doi.org/10.1016/j.jcis.2021.09.068</a>.</p> <p>#<a href="#">LI Huangxu</a>, <a href="#">GUAN Chaohong</a>, <a href="#">ZHANG Jie</a>, #<a href="#">CHENG Ke</a>, #<a href="#">CHEN Qingxin</a>, <a href="#">HE Liang</a>, <a href="#">GE Xiaochen</a>, <a href="#">LAI Yanqing</a>, <a href="#">SUN Hongyan</a>, <a href="#">ZHANG Zhian</a>, "Robust Artificial Interphases Constructed by a Versatile Protein-Based Binder for High-Voltage Na-Ion Battery Cathodes", <i>Advanced Materials</i>, 13 May 2022, doi: <a href="https://doi.org/10.1002/adma.202202624">https://doi.org/10.1002/adma.202202624</a>.</p> <p><a href="#">ZHANG Wei</a>, <a href="#">XU Zhenming</a>, #<a href="#">LI Huangxu</a>, <a href="#">XU Ming</a>, <a href="#">WANG Sha</a>, <a href="#">LI Zheng</a>, <a href="#">WANG Aonan</a>, <a href="#">ZHANG Liuyun</a>, <a href="#">HE Liang</a>, <a href="#">LI Shihao</a>, <a href="#">ZHU Bin</a>, <a href="#">ZHANG Zhian</a>, <a href="#">LAI Yanqing</a>, "All-climate and air-stable NASICON-Na<sub>2</sub>TiV(PO<sub>4</sub>)<sub>3</sub> cathode with three-electron reaction toward high-performance sodium-ion batteries", <i>Chemical Engineering Journal</i>, 433(Part 2), 13 November 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.133542">https://doi.org/10.1016/j.cej.2021.133542</a>.</p> <p><a href="#">ZHANG Wei</a>, <a href="#">WU Yulun</a>, <a href="#">XU Zhenming</a>, #<a href="#">LI Huangxu</a>, <a href="#">XU Ming</a>, <a href="#">LI Jianwei</a>, <a href="#">DAI Yuhang</a>, <a href="#">ZONG Wei</a>, <a href="#">CHEN Ruwei</a>, <a href="#">HE Liang</a>, <a href="#">ZHANG Zhian</a>, <a href="#">BRETT Dan J. L.</a>, <a href="#">HE Guanjie</a>, <a href="#">LAI Yanqing</a>, <a href="#">PARKIN Ivan P.</a>, "Rationally Designed Sodium Chromium Vanadium Phosphate</p> |

## Section A: Publications of PhD Students

|            |  |
|------------|--|
|            | <p>Cathodes with Multi-Electron Reaction for Fast-Charging Sodium-Ion Batteries", <i>Advanced Energy Materials</i>, 08 May 2022, doi: <a href="https://doi.org/10.1002/aenm.202201065">https://doi.org/10.1002/aenm.202201065</a>.</p> <p>WANG Sha, #LI Huangxu, ZHANG Wei, ZHENG Jingqiang, LI Shihao, HU Junxian, LAI Yanqing, ZHANG Zhian, "Ultra-High-Rate Na<sub>3</sub>V(PO<sub>3</sub>)<sub>3</sub>N Cathode with Superior Stability for Fast-Charging Sodium-Ion Batteries", <i>ACS Applied Energy Materials</i>, 4(9), 02 September 2021, pp 10136–10144, doi: <a href="https://doi.org/10.1021/acsaem.1c02042">https://doi.org/10.1021/acsaem.1c02042</a>.</p> <p>HE Liang, #LI Huangxu, GE Xiaochen, LI Shihao, WANG Xu, WANG Sha, ZHANG Liuyun, ZHANG Zhian, "Iron-Phosphate-Based Cathode Materials for Cost-Effective Sodium-Ion Batteries: Development, Challenges, and Prospects", <i>Advanced Materials Interfaces</i>, 9(10), 10 June 2022, doi: <a href="https://doi.org/10.1002/admi.202200515">https://doi.org/10.1002/admi.202200515</a>.</p> <p>ZHENG Jingqiang, GUAN Chaohong, #LI Huangxu, XIE Yangyang, LI Shihao, HU Junxian, ZHANG Kai, HONG Bo, LAI Yanqing, LI Jie, ZHANG Zhian, "VC@NCNTs: Bidirectional catalyst for fast charging Lithium-sulfur batteries", <i>Chemical Engineering Journal</i>, 442, 29 March 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135940">https://doi.org/10.1016/j.cej.2022.135940</a>.</p> <p>GUO Jun, DUAN Yulong, LIU Yangyang, #LI Huangxu, ZHANG Yin, LONG Chang, WANG Zuming, YANG Yongchao, ZHAO Shenlong, "The biomimetic engineering of metal-organic frameworks with single-chiral-site precision for asymmetric hydrogenation", <i>Journal of Materials Chemistry A</i>, 08 November 2021, doi: <a href="https://doi.org/10.1039/d1ta08319h">https://doi.org/10.1039/d1ta08319h</a>.</p> <p>CHEN Yuxiang, ZHAO Xiuhui, HE Junying, LIU Tingting, LIU Yanbo, ZHONG Xiacong, #LI Huangxu, "Engineering Stress-Release Structures Based on Biological Swelling in Carbon Fibers for Stable Sodium Ion Storage", <i>ACS Applied Energy Materials</i>, 5(5), 05 May 2022, pp 6091–6099, doi: <a href="https://doi.org/10.1021/acsaem.2c00482">https://doi.org/10.1021/acsaem.2c00482</a>.</p> <p>LI Shihao, #LI Huangxu, ZHANG Haiyan, ZHANG Shuai, LAI Yanqing, ZHANG Zhian, "Constructing stable surface structures enabling fast charging for Li-rich layered oxide cathodes", <i>Chemical Engineering Journal</i>, 427, 26 August 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132036">https://doi.org/10.1016/j.cej.2021.132036</a>.</p> <p>LI Shihao, ZHANG Haiyan, #LI Huangxu, ZHANG Shuai, ZHU Bin, WANG Sha, ZHENG Jingqiang, LIU Fangyan, ZHANG Zhian, LAI Yanqing, "Enhanced Activity and Reversibility of Anionic Redox by Tuning Lithium Vacancies in Li-Rich Cathode Materials", <i>ACS Applied Materials and Interfaces</i>, 13(33), 12 August 2021, pp 39480–39490, doi: <a href="https://doi.org/10.1021/acsaem.1c11178">https://doi.org/10.1021/acsaem.1c11178</a>.</p> <p>ZHANG Liuyun, GUAN Chaohong, XIE Yangyang, #LI Huangxu, WANG Aonan, CHANG Shilei, ZHENG Jingqiang, LAI Yanqing, ZHANG Zhian, "Heteroatom-Substituted P2-Na<sub>2/3</sub>Ni<sub>1/4</sub>Mg<sub>1/12</sub>Mn<sub>2/3</sub>O<sub>2</sub> Cathode with {010} Exposing Facets Boost Anionic Activity and High-Rate Performance for Na-Ion Batteries", <i>ACS Applied Materials and Interfaces</i>, 14(16), 14 April 2022, pp 18313–18323, doi: <a href="https://doi.org/10.1021/acsaem.1c24336">https://doi.org/10.1021/acsaem.1c24336</a>.</p> |
| LI Kedi    | <p>#LYU Dong, ZHENG Shuang, #CAO Chunyan, #LI Kedi, #AI Liqing, #LI Xin, YANG Zhengbao, XU Zhengtao, YAO Xi, "Defect-enhanced selective ion transport in an ionic nanocomposite for efficient energy harvesting from moisture", <i>Energy &amp; Environmental Science</i>, 15(6), 28 April 2022, pp 2601–2609, doi: <a href="https://doi.org/10.1039/d2ee00432a">https://doi.org/10.1039/d2ee00432a</a>.</p> <p>#WANG Yunhao, #ZHOU Jingwen, LIN Chao, CHEN Bo, GUAN Zhiqiang, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, GE Yiyao, YUN Qinbai, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, LEE Chun Sing, LIU Yijin, ZHANG Qianfan, FAN Zhanxi, "Decreasing the Overpotential of Aprotic Li-CO<sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i>, 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a>.</p>  |
| LI Lujiang | <p>#WANG Juan, #YU Jinli, SUN Mingzi, LIAO Lingwen, ZHANG Qinghua, #ZHAI Li, #ZHOU Xichen, #LI Lujiang, WANG Gang, MENG Fanqi, SHEN Dong, #LI Zijian, BAO Haibo, #WANG Yunhao, #ZHOU Jingwen, CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, LEE Chun Sing, FAN Zhanxi, "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i>, 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a>.</p>   |

Section A: Publications of PhD Students

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|                    | <p><u>GE Yiyao</u>, #WANG Xixi, #HUANG Biao, HUANG Zhiqi, CHEN Bo, LING Chongyi, LIU Jiawei, LIU Guanghua, ZHANG Jie, WANG Gang, CHEN Ye, #LI Lujiang, <u>LIAO Lingwen</u>, WANG Lei, YUN Qinbai, <u>LAI Zhuangchai</u>, #LU Shiyao, #LUO Qinxin, WANG Jinlan, ZHENG Zijian, <u>ZHANG Hua</u>, "Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction", <i>Journal of the American Chemical Society</i>, 143(41), 06 October 2021, pp 17292-17299, doi: <a href="https://doi.org/10.1021/jacs.1c08973">https://doi.org/10.1021/jacs.1c08973</a>.</p> <p><u>LAI Zhuangchai</u>, #YAO Yao, #LI Siyuan, MA Lu, ZHANG Qinghua, <u>GE Yiyao</u>, #ZHAI Wei, #CHI Banlan, CHEN Bo, #LI Lujiang, WANG Lei, ZHENG Zijian, GU Lin, DU Yonghua, <u>ZHANG Hua</u>, "Salt-Assisted 2H-to-1T' Phase Transformation of Transition Metal Dichalcogenides", <i>Advanced Materials</i>, 34(26), 18 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201194">https://doi.org/10.1002/adma.202201194</a>.</p> <p><u>GE Yiyao</u>, #WANG Xixi, CHEN Bo, HUANG Zhiqi, SHI Zhenyu, #HUANG Biao, LIU Jiawei, WANG Gang, CHEN Ye, #LI Lujiang, #LU Shiyao, #LUO Qinxin, YUN Qinbai, <u>ZHANG Hua</u>, "Preparation of fcc-2H-fcc Heterophase Pd@Ir Nanostructures for High-Performance Electrochemical Hydrogen Evolution", <i>Advanced Materials</i>, 34(4), 31 October 2021, doi: <a href="https://doi.org/10.1002/adma.202107399">https://doi.org/10.1002/adma.202107399</a>.</p> <p>YIN Pengfei, FU Jiaju, YUN Qinbai, CHEN Bo, LIU Guigao, #LI Lujiang, HUANG Zhiqi, <u>GE Yiyao</u>, <u>ZHANG Hua</u>, "Preparation of Amorphous SnO<sub>2</sub>-Encapsulated Multiphased Crystalline Cu Heterostructures for Highly Efficient CO<sub>2</sub> Reduction", <i>Advanced Materials</i>, 21 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201114">https://doi.org/10.1002/adma.202201114</a>.</p> <p>#ZHOU Xichen, #MA Yangbo, <u>GE Yiyao</u>, ZHU Shangqian, CUI Yu, CHEN Bo, <u>LIAO Lingwen</u>, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, <u>GUAN Zhiqiang</u>, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, <u>FAN Zhanxi</u>, <u>ZHANG Hua</u>, "Preparation of Au@Pd Core-Shell Nanorods with fcc-2H- fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i>, 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a>.</p> <p>YUN Qinbai, <u>GE Yiyao</u>, CHEN Bo, #LI Lujiang, #WA Qingbo, #LONG Huiwu, <u>ZHANG Hua</u>, "Hybridization of 2D Nanomaterials with 3D Graphene Architectures for Electrochemical Energy Storage and Conversion", <i>Advanced Functional Materials</i>, 14 April 2022, doi: <a href="https://doi.org/10.1002/adfm.202202319">https://doi.org/10.1002/adfm.202202319</a>.</p> |
| <b>LI Pan</b>      | <p>#WANG Fei, LIU Ling Sum, #LI Pan, #LEUNG Hoi Man, TAM Dick Yan, LO Pik Kwan Peggy, "Biologically stable threose nucleic acid-based probes for real-time microRNA detection and imaging in living cells", <i>Molecular Therapy - Nucleic Acids</i>, 27, 03 January 2022, pp 787-796, doi: <a href="https://doi.org/10.1016/j.omtn.2021.12.040">https://doi.org/10.1016/j.omtn.2021.12.040</a>.</p> <p>#WANG Fei, LIU Ling Sum, #LI Pan, LAU Cia Hin, #LEUNG Hoi Man, CHIN Rebecca Y M, TIN Chung, LO Pik Kwan Peggy, "Cellular uptake, tissue penetration, biodistribution, and biosafety of threose nucleic acids: Assessing in vitro and in vivo delivery", <i>Materials Today Bio</i>, 15, 18 May 2022, doi: <a href="https://doi.org/10.1016/j.mtbio.2022.100299">https://doi.org/10.1016/j.mtbio.2022.100299</a>.</p> <p>#WANG Fei, #LI Pan, CHU Hoi Ching, LO Pik Kwan Peggy, "Nucleic Acids and Their Analogues for Biomedical Applications", <i>Biosensors</i>, 12(2), 04 February 2022, doi: <a href="https://doi.org/10.3390/bios12020093">https://doi.org/10.3390/bios12020093</a>.</p>  |
| <b>LI Siyuan</b>   | <p><u>LAI Zhuangchai</u>, #YAO Yao, #LI Siyuan, MA Lu, ZHANG Qinghua, <u>GE Yiyao</u>, #ZHAI Wei, #CHI Banlan, CHEN Bo, #LI Lujiang, WANG Lei, ZHENG Zijian, GU Lin, DU Yonghua, <u>ZHANG Hua</u>, "Salt-Assisted 2H-to-1T' Phase Transformation of Transition Metal Dichalcogenides", <i>Advanced Materials</i>, 34(26), 18 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201194">https://doi.org/10.1002/adma.202201194</a>.</p>  |
| <b>LI Xiaozhen</b> | <p>#LI Xiaozhen, #ZHANG Di, LU Guihong, HE Tingchao, #WAN Yingpeng, TSE Man Kit, REN Can, WANG Pengfei, LI Shengliang, LUO Jingdong, LEE Chun Sing, "Photochemical Synthesis of Nonplanar Small Molecules with Ultrafast Nonradiative Decay for Highly Efficient Phototheranostics", <i>Advanced Materials</i>, 28 July 2021, doi: <a href="https://doi.org/10.1002/adma.202102799">https://doi.org/10.1002/adma.202102799</a>.</p> <p>#HUANG Zhongming, #WAN Yingpeng, #LIANG Jianli, #XIAO Yafang, #LI Xiaozhen, CUI Xiao, #TIAN Shuang, #ZHAO Qi, LI Shengliang, LEE Chun Sing, "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier",</p>  |



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|                   | <p><i>ACS Applied Materials &amp; Interfaces</i>, 13(27), 05 July 2021, pp 31624–31634, doi: <a href="https://doi.org/10.1021/acsami.1c06000">https://doi.org/10.1021/acsami.1c06000</a>.</p> <p>HE Linyun, ZHANG Yachao, #CHEN Jiangbo, #LIU Gongyuan, #ZHU Jingyi, #LI Xiaozhen, LI Dengfeng, YANG Yuqi, LEE Chun Sing, SHI Jiahai, YIN Chao, LAI Puxiang, WANG Lidai, FANG Chihua, "A multifunctional targeted nanoprobe with high NIR-II PAI/MRI performance for precise theranostics of orthotopic early-stage hepatocellular carcinoma", <i>Journal of Materials Chemistry B</i>, 9(42), 18 September 2021, pp 8779-8792, doi: <a href="https://doi.org/10.1039/d1tb01729b">https://doi.org/10.1039/d1tb01729b</a>.</p> <p>YIN Chao, TAI Xiaoyan, #LI Xiaozhen, #TAN Jihua, LEE Chun Sing, SUN Pengfei, FAN Quli, HUANG Wei, "Side chain engineering of semiconducting polymers for improved NIR-II fluorescence imaging and photothermal therapy", <i>Chemical Engineering Journal</i>, 428, 31 August 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132098">https://doi.org/10.1016/j.cej.2021.132098</a>.</p> <p>#LI Xiaozhen, YIN Chao, LIEW Si Si, LEE Chun Sing, PU Kanyi, "Organic Semiconducting Luminophores for Near-Infrared Afterglow, Chemiluminescence, and Bioluminescence Imaging", <i>Advanced Functional Materials</i>, 31(46), 06 August 2021, doi: <a href="https://doi.org/10.1002/adfm.202106154">https://doi.org/10.1002/adfm.202106154</a>.</p>   |
| <b>LI Xintong</b> | <p>#LI Xintong, #LIU Yizhe, #SUN Qidi, HUANG Wei-Hsiang, WANG Zilong, CHUEH Chu-Chen, CHEN Chi-Liang, ZHU Zonglong, "Surface engineered CoP/Co<sub>3</sub>O<sub>4</sub> heterojunction for high-performance bi-functional water splitting electro-catalysis", <i>Nanoscale</i>, 13(47), 10 November 2021, pp 20281-20288, doi: <a href="https://doi.org/10.1039/d1nr06044a">https://doi.org/10.1039/d1nr06044a</a>.</p> <p>#LI Zhen, #WU Xin, #LI Bo, ZHANG Shoufeng, #GAO Danpeng, #LIU Yizhe, #LI Xintong, ZHANG Ningbin, HU Xiaotian, ZHI Chunyi, JEN Alex, ZHU Zonglong, "Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules", <i>Advanced Energy Materials</i>, 12(5), 22 December 2021, doi: <a href="https://doi.org/10.1002/aenm.202103236">https://doi.org/10.1002/aenm.202103236</a>.</p> <p>#LIU Yizhe, #LI Xintong, #SUN Qidi, WANG Zilong, HUANG Wei-Hsiang, GUO Xuyun, FAN Zhanxi, YE Ruquan, ZHU Ye, CHUEH Chu-Chen, CHEN Chi-Liang, ZHU Zonglong, "Freestanding 2D NiFe Metal–Organic Framework Nanosheets: Facilitating Proton Transfer via Organic Ligands for Efficient Oxygen Evolution Reaction", <i>Small</i>, 18(26), 31 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201076">https://doi.org/10.1002/sml.202201076</a>.</p>   |
| <b>LI Xue</b>     | <p>#LI Xue, GAO Miao, HUO Yingchao, LIU Houqi, LI Jie, HUANG Tianyin, YE Ruquan, LI Wenwei, "Impacts of shell structure on nitrate-reduction activity and air stability of nanoscale zero-valent iron", <i>Environmental Science and Pollution Research</i>, 21 June 2022, doi: <a href="https://doi.org/10.1007/s11356-022-21460-y">https://doi.org/10.1007/s11356-022-21460-y</a>.</p>   |
| <b>LI Yang</b>    | <p>TIAN Jiahong, FAN Runhua, ZHANG Zheng, #LI Yang, #WU Haikun, YANG Pengtao, XIE Peitao, DUAN Wenxin, LEE Chun Sing, "Flexible and biocompatible poly (vinyl alcohol)/multi-walled carbon nanotubes hydrogels with epsilon-near-zero properties", <i>Journal of Materials Science and Technology</i>, 131, 08 June 2022, pp 91-99, doi: <a href="https://doi.org/10.1016/j.jmst.2022.05.019">https://doi.org/10.1016/j.jmst.2022.05.019</a>.</p> <p>WU Yue, FAN Qunping, FAN Baobing, #QI Feng, WU Ziang, LIN Francis, #LI Yang, LEE Chun Sing, WOO Han Young, YIP Hin Lap, JEN Alex, "Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells", <i>ACS Energy Letters</i>, 7(7), 03 June 2022, pp 2196-2202, doi: <a href="https://doi.org/10.1021/acsenerylett.2c01082">https://doi.org/10.1021/acsenerylett.2c01082</a>.</p> <p>ZHANG Zheng, LIU Mingxiang, IBRAHIM Mohamed M., #WU Haikun, #WU Yan, #LI Yang, MERSAL Gaber A. M., EL AZAB Islam H., EL-BAHY Salah M., HUANG Mina, JIANG Yunxiao, LIANG Gemeng, XIE Peitao, LIU Chunzhao, "Flexible polystyrene/graphene composites with epsilon-near-zero properties", <i>Advanced Composites and Hybrid Materials</i>, 5(2), 25 May 2022, pp 1054–1066, doi: <a href="https://doi.org/10.1007/s42114-022-00486-3">https://doi.org/10.1007/s42114-022-00486-3</a>.</p> <p>GUAN Zhiqiang, #LI Yang, #ZHU Zhaohua, #ZENG Zixin, SHEN Dong, #TAN Jihua, TSANG Sai Wing, LIU Shihao, LEE Chun Sing, "Efficient Perovskite White Light-Emitting Diode Based on an Interfacial Charge-Confinement Structure", <i>ACS Applied Materials and Interfaces</i>, 13(37), 07 September 2021, pp 44991-45000, doi: <a href="https://doi.org/10.1021/acsami.1c09715">https://doi.org/10.1021/acsami.1c09715</a>.</p> <p>#ZHU Zhaohua, #WU Yan, #LI Yang, #ZENG Zixin, TSANG Sai Wing, GUAN Zhiqiang, LEE Chun Sing, "Enhancing the Performance of Perovskite Light-Emitting Diodes by Humidity Treatment", <i>ACS Applied Materials and Interfaces</i>, 14(17), 21 April 2022, pp 19774–19784, doi: <a href="https://doi.org/10.1021/acsami.1c24561">https://doi.org/10.1021/acsami.1c24561</a>.</p> |

Section A: Publications of PhD Students

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| <b>LI Zhen</b>      | #WANG Deng, GUO Hongling, #WU Xin, #DENG Xiang, #LI Fengzhu, #LI Zhen, LIN Francis, ZHU Zonglong, ZHANG Yi, XU Baomin, JEN Alex, "Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells", <i>Advanced Functional Materials</i> , 32(2), 04 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202107359">https://doi.org/10.1002/adfm.202107359</a> .  |
|                     | #LI Zhen, LI Bo, #WU Xin, SHEPPARD Stephanie A., ZHANG Shoufeng, #GAO Danpeng, LONG Nicholas J., ZHU Zonglong, "Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells", <i>Science</i> , 376(6591), 21 April 2022, pp 416–420, doi: <a href="https://doi.org/10.1126/science.abm8566">https://doi.org/10.1126/science.abm8566</a> .   |
|                     | #LI Zhen, #WU Xin, WU Shengfan, #GAO Danpeng, DONG Hua, HUANG Fuzhi, HU Xiaotian, JEN Alex, ZHU Zonglong, "An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics", <i>Nano Energy</i> , 93, 18 December 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106853">https://doi.org/10.1016/j.nanoen.2021.106853</a> .  |
|                     | #LI Zhen, #WU Xin, #LI Bo, ZHANG Shoufeng, #GAO Danpeng, #LIU Yizhe, #LI Xintong, ZHANG Ningbin, HU Xiaotian, ZHI Chunyi, JEN Alex, ZHU Zonglong, "Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules", <i>Advanced Energy Materials</i> , 12(5), 22 December 2021, doi: <a href="https://doi.org/10.1002/aenm.202103236">https://doi.org/10.1002/aenm.202103236</a> .   |
|                     | LI Bo, #WU Xin, ZHANG Shoufeng, #LI Zhen, #GAO Danpeng, CHEN Xiankai, XIAO Shuang, CHUEH Chu-Chen, JEN Alex, ZHU Zonglong, "Efficient and stable Cs <sub>2</sub> AgBiBr <sub>6</sub> double perovskite solar cells through in-situ surface modulation", <i>Chemical Engineering Journal</i> , 446(3), 23 May 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137144">https://doi.org/10.1016/j.cej.2022.137144</a> .   |
|                     | WU Shengfan, #LI Zhen, ZHANG Jie, #WU Xin, #DENG Xiang, #LIU Yiming, #ZHOU Jingkun, ZHI Chunyi, YU Xinge, CHOY Wallace C.H., ZHU Zonglong, JEN Alex, "Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells", <i>Advanced Materials</i> , 33(51), 03 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105539">https://doi.org/10.1002/adma.202105539</a> .   |
| <b>LI Zijian</b>    | #LI Zijian, #ZHAI Li, GE Yiyao, HUANG Zhiqi, SHI Zhenyu, LIU Jiawei, #ZHAI Wei, #LIANG Jinzhe, ZHANG Hua, "Wet-chemical synthesis of two-dimensional metal nanomaterials for electrocatalysis", <i>National Science Review</i> , 11 August 2021, doi: <a href="https://doi.org/10.1093/nsr/nwab142">https://doi.org/10.1093/nsr/nwab142</a> .   |
|                     | #WANG Juan, #YU Jinli, SUN Mingzi, LIAO Lingwen, ZHANG Qinghua, #ZHAI Li, #ZHOU Xichen, #LI Lujiang, WANG Gang, MENG Fanqi, SHEN Dong, #LI Zijian, BAO Haibo, #WANG Yunhao, #ZHOU Jingwen, CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, LEE Chun Sing, FAN Zhanxi, "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i> , 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a> . |
| <b>LIANG Jianli</b> | #LIANG Jianli, SONG Qianqian, WU Jianghua, LEI Qi, LI Jing, ZHANG Wei, #HUANG Zhongming, #KANG Tianxing, XU Hui, WANG Peng, ZHOU Xingtai, WONG Po Keung, LI Huaming, MENG Xiangmin, JIANG Zhifeng, LEE Chun Sing, "Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics", <i>ACS Nano</i> , 16(3), 16 February 2022, pp 4152–4161, doi: <a href="https://doi.org/10.1021/acsnano.1c10003">https://doi.org/10.1021/acsnano.1c10003</a> .   |
|                     | #HUANG Zhongming, #WAN Yingpeng, #LIANG Jianli, #XIAO Yafang, #LI Xiaozhen, CUI Xiao, #TIAN Shuang, #ZHAO Qi, LI Shengliang, LEE Chun Sing, "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier", <i>ACS Applied Materials &amp; Interfaces</i> , 13(27), 05 July 2021, pp 31624–31634, doi: <a href="https://doi.org/10.1021/acsaami.1c06000">https://doi.org/10.1021/acsaami.1c06000</a> .  |
|                     | SONG Qianqian, #LIANG Jianli, LIU Si, ZHANG Yunting, ZHU Jian, ZHU Changbao, "Negatively charged insulated boron nitride nanofibers directing subsurface zinc deposition for dendrite-free zinc anodes", <i>Nano Research</i> , 15 June 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4619-5">https://doi.org/10.1007/s12274-022-4619-5</a> .  |
| <b>LIANG Jinzhe</b> | #LI Zijian, #ZHAI Li, GE Yiyao, HUANG Zhiqi, SHI Zhenyu, LIU Jiawei, #ZHAI Wei, #LIANG Jinzhe, ZHANG Hua, "Wet-chemical synthesis of two-dimensional metal nanomaterials for electrocatalysis", <i>National Science Review</i> , 11 August 2021, doi: <a href="https://doi.org/10.1093/nsr/nwab142">https://doi.org/10.1093/nsr/nwab142</a> .   |

## Section A: Publications of PhD Students

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|              | #LIANG Jinzhe, GE Yiyao, #HE Zhen, YUN Qinbai, LIU Guigao, #LU Shiyao, #ZHAI Li, #HUANG Biao, ZHANG Hua, "Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials", <i>Nano Research</i> , 20 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-4007-6">https://doi.org/10.1007/s12274-021-4007-6</a> .  |
| LIN Huiju    | #CAO Yaru, #XU Shaopeng, ZHANG Kai, #LIN Huiju, WU Rongben, #LAO Jiayong, #TAO Danyang, LIU Mengyang, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Spatiotemporal occurrence of phthalate esters in stormwater drains of Hong Kong, China: Mass loading and source identification", <i>Environmental Pollution</i> , 308, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.119683">https://doi.org/10.1016/j.envpol.2022.119683</a> .  |
|              | #CAO Yaru, LI Jing, WU Rongben, #LIN Huiju, #LAO Jiayong, RUAN Yuefei Phoebe, ZHANG Kai, WU Jiaxue, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Phthalate esters in seawater and sediment of the northern South China Sea: Occurrence, distribution, and ecological risks", <i>Science of the Total Environment</i> , 811, 04 November 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.151412">https://doi.org/10.1016/j.scitotenv.2021.151412</a> .  |
|              | #LIN Huiju, TANIYASU Sachi, YAMAZAKI Eriko, WU Rongben, LAM Kwan Sing Paul, EUN Heesoo, YAMASHITA Nobuyoshi, "Fluorine mass balance analysis and per- and polyfluoroalkyl substances in the atmosphere", <i>Journal of Hazardous Materials</i> , 435, 28 April 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.129025">https://doi.org/10.1016/j.jhazmat.2022.129025</a> .  |
|              | #CAO Yaru, #LIN Huiju, ZHANG Kai, #XU Shaopeng, YAN Meng, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Microplastics: A major source of phthalate esters in aquatic environments", <i>Journal of Hazardous Materials</i> , 432, 17 March 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128731">https://doi.org/10.1016/j.jhazmat.2022.128731</a> .   |
|              | #TAO Danyang, ZHANG Kai, #XU Shaopeng, #LIN Huiju, LIU Yuan, KANG Jingliang, YIM Tszewai, GIESY John Paul, LEUNG Mei Yee Kenneth, "Microfibers Released into the Air from a Household Tumble Dryer", <i>Environmental Science and Technology Letters</i> , 9(2), 12 January 2022, pp 120-126, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00911">https://doi.org/10.1021/acs.estlett.1c00911</a> .   |
|              | TANIYASU Sachi, YEUNG Wai Yin, #LIN Huiju, YAMAZAKI Eriko, EUN Heesoo, LAM Kwan Sing Paul, YAMASHITA Nobuyoshi, "Quality assurance and quality control of solid phase extraction for PFAS in water and novel analytical techniques for PFAS analysis", <i>Chemosphere</i> , 288(1), 06 October 2021, doi: <a href="https://doi.org/10.1016/j.chemosphere.2021.132440">https://doi.org/10.1016/j.chemosphere.2021.132440</a> .  |
|              | #WANG Qi, RUAN Yuefei Phoebe, JIN Linjie, #LIN Huiju, YAN Meng, #GU Jiarui, #YUEN Nim Tung Calista, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Tissue-Specific Uptake, Depuration Kinetics, and Suspected Metabolites of Three Emerging Per- and Polyfluoroalkyl Substances (PFASs) in Marine Medaka", <i>Environmental Science and Technology</i> , 56(10), 19 April 2022, doi: <a href="https://doi.org/10.1021/acs.est.1c07643">https://doi.org/10.1021/acs.est.1c07643</a> .  |
|              | #LIN Huiju, TANIYASU Sachi, YAMASHITA Nobuyoshi, KHAN Muhammad Kamran, MASOOD Saiyada Shadiah, SAIED Sumayya, KHWAJA Haider Abbas, "Per- and polyfluoroalkyl substances in the atmospheric total suspended particles in Karachi, Pakistan: Profiles, potential sources, and daily intake estimates", <i>Chemosphere</i> , 288(2), 01 October 2021, doi: <a href="https://doi.org/10.1016/j.chemosphere.2021.132432">https://doi.org/10.1016/j.chemosphere.2021.132432</a> .  |
| LIU Gongyuan | #YAO Houzong, GUNAWAN Yuliana Fransiska, #LIU Gongyuan, TSE Man Kit, ZHU Guangyu, "Optimization of axial ligands to promote the photoactivation of BODIPY-conjugated platinum(IV) anticancer prodrugs", <i>Dalton Transactions</i> , 50(39), 30 August 2021, pp 13737-13747, doi: <a href="https://doi.org/10.1039/d1dt02362d">https://doi.org/10.1039/d1dt02362d</a> .  |
|              | #YAO Houzong, WANG Zhigang, WANG Na, #DENG Zhiqin, #LIU Gongyuan, ZHOU Jianghong, #CHEN Shu, SHI Jiahai, ZHU Guangyu, "Enhancing Circulation and Tumor Accumulation of Carboplatin via an Erythrocyte-Anchored Prodrug Strategy", <i>Angewandte Chemie - International Edition</i> , 61(25), 30 March 2022, doi: <a href="https://doi.org/10.1002/anie.202203838">https://doi.org/10.1002/anie.202203838</a> .   |
|              | HE Linyun, ZHANG Yachao, #CHEN Jiangbo, #LIU Gongyuan, #ZHU Jingyi, #LI Xiaozhen, LI Dengfeng, YANG Yuqi, LEE Chun Sing, SHI Jiahai, YIN Chao, LAI Puxiang, WANG Lidai, FANG Chihua, "A multifunctional targeted nanoprobe with high NIR-II PAI/MRI performance for precise theranostics of orthotopic early-stage hepatocellular carcinoma", <i>Journal of Materials Chemistry B</i> , 9(42), 18 September 2021, pp 8779-8792, doi: <a href="https://doi.org/10.1039/d1tb01729b">https://doi.org/10.1039/d1tb01729b</a> . |

## Section A: Publications of PhD Students

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| <b>LIU Ruoyang</b> | # <a href="#">LIU Ruoyang</a> , <a href="#">CHENG Shun Cheung</a> , <a href="#">XIAO Yelan</a> , <a href="#">CHAN Kin Cheung</a> , <a href="#">TONG Ka Ming</a> , <a href="#">KO Chi Chiu Vincent</a> , "Recyclable polymer-supported iridium-based photocatalysts for photoredox organic transformations", <i>Journal of Catalysis</i> , 407, 04 February 2022, pp 206-212, doi: <a href="https://doi.org/10.1016/j.jcat.2022.01.024">https://doi.org/10.1016/j.jcat.2022.01.024</a> .   |
| <b>LIU Yizhe</b>   | # <a href="#">LI Xintong</a> , # <a href="#">LIU Yizhe</a> , # <a href="#">SUN Qidi</a> , <a href="#">HUANG Wei-Hsiang</a> , <a href="#">WANG Zilong</a> , <a href="#">CHUEH Chu-Chen</a> , <a href="#">CHEN Chi-Liang</a> , <a href="#">ZHU Zonglong</a> , "Surface engineered CoP/Co <sub>3</sub> O <sub>4</sub> heterojunction for high-performance bi-functional water splitting electro-catalysis", <i>Nanoscale</i> , 13(47), 10 November 2021, pp 20281-20288, doi: <a href="https://doi.org/10.1039/d1nr06044a">https://doi.org/10.1039/d1nr06044a</a> .<br># <a href="#">LI Zhen</a> , # <a href="#">WU Xin</a> , # <a href="#">LI Bo</a> , <a href="#">ZHANG Shoufeng</a> , # <a href="#">GAO Danpeng</a> , # <a href="#">LIU Yizhe</a> , # <a href="#">LI Xintong</a> , <a href="#">ZHANG Ningbin</a> , <a href="#">HU Xiaotian</a> , <a href="#">ZHI Chunyi</a> , <a href="#">JEN Alex</a> , <a href="#">ZHU Zonglong</a> , "Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules", <i>Advanced Energy Materials</i> , 12(5), 22 December 2021, doi: <a href="https://doi.org/10.1002/aenm.202103236">https://doi.org/10.1002/aenm.202103236</a> .<br># <a href="#">WANG Jing</a> , # <a href="#">WU Xin</a> , # <a href="#">LIU Yizhe</a> , <a href="#">XUE Qifan</a> , <a href="#">YIP Hin Lap</a> , <a href="#">JEN Alex</a> , <a href="#">ZHU Zonglong</a> , "Interface Engineering for All-Inorganic CsPbBr <sub>2</sub> Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%", <i>Energy Technology</i> , 9(11), 18 September 2021, doi: <a href="https://doi.org/10.1002/ente.202100562">https://doi.org/10.1002/ente.202100562</a> .<br># <a href="#">LIU Yizhe</a> , # <a href="#">LI Xintong</a> , # <a href="#">SUN Qidi</a> , <a href="#">WANG Zilong</a> , <a href="#">HUANG Wei-Hsiang</a> , <a href="#">GUO Xuyun</a> , <a href="#">FAN Zhanxi</a> , <a href="#">YE Ruquan</a> , <a href="#">ZHU Ye</a> , <a href="#">CHUEH Chu-Chen</a> , <a href="#">CHEN Chi-Liang</a> , <a href="#">ZHU Zonglong</a> , "Freestanding 2D NiFe Metal–Organic Framework Nanosheets: Facilitating Proton Transfer via Organic Ligands for Efficient Oxygen Evolution Reaction", <i>Small</i> , 18(26), 31 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201076">https://doi.org/10.1002/sml.202201076</a> . |
| <b>LIU Yong</b>    | # <a href="#">SU Jianjun</a> , # <a href="#">LIU Yong</a> , # <a href="#">SONG Yun</a> , # <a href="#">HUANG Libei</a> , # <a href="#">GUO Weihua</a> , # <a href="#">CAO Xiaohu</a> , # <a href="#">DOU Yubing</a> , # <a href="#">CHENG Le</a> , # <a href="#">LI Geng</a> , # <a href="#">HU Qiushi</a> , <a href="#">YE Ruquan</a> , "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i> , 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a> .<br># <a href="#">LI Geng</a> , # <a href="#">LIU Yong</a> , # <a href="#">ZHANG Qiang</a> , # <a href="#">HU Qiushi</a> , # <a href="#">GUO Weihua</a> , # <a href="#">CAO Xiaohu</a> , # <a href="#">DOU Yubing</a> , # <a href="#">CHENG Le</a> , # <a href="#">SONG Yun</a> , # <a href="#">SU Jianjun</a> , # <a href="#">HUANG Libei</a> , <a href="#">YE Ruquan</a> , "Development of catalysts and electrolyzers toward industrial-scale CO <sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i> , 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a> .   |
| <b>LIU Zhiyang</b> | <a href="#">XIE Yusheng</a> , <a href="#">DU Shubo</a> , # <a href="#">LIU Zhiyang</a> , <a href="#">LIU Min</a> , <a href="#">XU Zhiqiang</a> , <a href="#">WANG Xiaojie</a> , <a href="#">KEE Jia Xuan</a> , <a href="#">YI Fan</a> , <a href="#">SUN Hongyan</a> , <a href="#">YAO Shao Q.</a> , "Chemical Biology Tools for Protein Lysine Acylation", <i>Angewandte Chemie - International Edition</i> , 61(21), 18 March 2022, doi: <a href="https://doi.org/10.1002/anie.202200303">https://doi.org/10.1002/anie.202200303</a> .<br><a href="#">YANG Liu</a> , # <a href="#">LIU Guopan</a> , # <a href="#">CHEN Qingxin</a> , # <a href="#">WAN Yingpeng</a> , # <a href="#">LIU Zhiyang</a> , # <a href="#">ZHANG Jie</a> , # <a href="#">HUANG Chen</a> , <a href="#">XU Zhiqiang</a> , <a href="#">LI Shengliang</a> , <a href="#">LEE Chun Sing</a> , <a href="#">ZHANG Liang</a> , <a href="#">SUN Hongyan</a> , "An Activatable NIR Probe for the Detection and Elimination of Senescent Cells", <i>Analytical Chemistry</i> , 94(13), 23 March 2022, pp 5425–5431, doi: <a href="https://doi.org/10.1021/acs.analchem.2c00239">https://doi.org/10.1021/acs.analchem.2c00239</a> .  |
| <b>LONG Huiwu</b>  | # <a href="#">ZHOU Xichen</a> , # <a href="#">MA Yangbo</a> , <a href="#">GE Yiyao</a> , <a href="#">ZHU Shangqian</a> , <a href="#">CUI Yu</a> , <a href="#">CHEN Bo</a> , <a href="#">LIAO Lingwen</a> , <a href="#">YUN Qinbai</a> , # <a href="#">HE Zhen</a> , # <a href="#">LONG Huiwu</a> , # <a href="#">LI Lujiang</a> , # <a href="#">HUANG Biao</a> , # <a href="#">LUO Qinxin</a> , # <a href="#">ZHAI Li</a> , # <a href="#">WANG Xixi</a> , <a href="#">BAI Licheng</a> , <a href="#">WANG Gang</a> , <a href="#">GUAN Zhiqiang</a> , <a href="#">CHEN Ye</a> , <a href="#">LEE Chun Sing</a> , <a href="#">WANG Jinlan</a> , <a href="#">LING Chongyi</a> , <a href="#">SHAO Minhua</a> , <a href="#">FAN Zhanxi</a> , <a href="#">ZHANG Hua</a> , "Preparation of Au@Pd Core-Shell Nanorods with fcc-2H- fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i> , 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a> .<br><a href="#">YUN Qinbai</a> , <a href="#">GE Yiyao</a> , <a href="#">CHEN Bo</a> , # <a href="#">LI Lujiang</a> , # <a href="#">WA Qingbo</a> , # <a href="#">LONG Huiwu</a> , <a href="#">ZHANG Hua</a> , "Hybridization of 2D Nanomaterials with 3D Graphene Architectures for Electrochemical Energy Storage and Conversion", <i>Advanced Functional Materials</i> , 14 April 2022, doi: <a href="https://doi.org/10.1002/adfm.202202319">https://doi.org/10.1002/adfm.202202319</a> .   |
| <b>LU Pengyi</b>   | # <a href="#">XIONG Yuecheng</a> , # <a href="#">ZHOU Jingwen</a> , # <a href="#">LU Pengyi</a> , # <a href="#">YIN Jinwen</a> , # <a href="#">WANG Yunhao</a> , <a href="#">FAN Zhanxi</a> , "Electrochemical lithium extraction from aqueous sources", <i>Matter</i> , 5(6), 01 June 2022, pp 1760-1791, doi: <a href="https://doi.org/10.1016/j.matt.2022.04.034">https://doi.org/10.1016/j.matt.2022.04.034</a> .<br># <a href="#">WANG Yunhao</a> , # <a href="#">ZHOU Jingwen</a> , <a href="#">LIN Chao</a> , <a href="#">CHEN Bo</a> , <a href="#">GUAN Zhiqiang</a> , <a href="#">EBRAHIM Amani M.</a> , <a href="#">QIAN Guannan</a> , <a href="#">YE Chenliang</a> , <a href="#">CHEN Lin</a> , <a href="#">GE Yiyao</a> , <a href="#">YUN Qinbai</a> , # <a href="#">WANG Xixi</a> , # <a href="#">ZHOU Xichen</a> , <a href="#">WANG Gang</a> , # <a href="#">LI Kedi</a> , # <a href="#">LU Pengyi</a> , # <a href="#">MA Yangbo</a> , # <a href="#">XIONG Yuecheng</a> , <a href="#">WANG Tianshuai</a> , <a href="#">ZHENG Long</a> , <a href="#">CHU Shengqi</a> , <a href="#">CHEN Ye</a> , <a href="#">WANG Bin</a> , <a href="#">LEE Chun Sing</a> , <a href="#">LIU Yijin</a> ,  |

Section A: Publications of PhD Students

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|                   | ZHANG Qianfan, FAN Zhanxi, "Decreasing the Overpotential of Aprotic Li-CO <sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i> , 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a> .   |
|                   | #MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> . |
|                   | #LU Pengyi, YAN Xiao, WANG Xinzong, HOU Feng, LIANG Ji, "A leaf-like Co-Silicate/CNT hybrid film as free-standing anode for lithium and sodium storage", <i>Journal of Alloys and Compounds</i> , 891, 23 September 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.162077">https://doi.org/10.1016/j.jallcom.2021.162077</a> .  |
|                   | #LU Pengyi, YAN Xiao, WANG Xinzong, HOU Feng, LIANG Ji, "Structural design of Ni-silicate/CNT hybrid films as anode materials for highly reversible lithium and sodium storage", <i>Sustainable Materials and Technologies</i> , 31, 08 December 2021, doi: <a href="https://doi.org/10.1016/j.susmat.2021.e00375">https://doi.org/10.1016/j.susmat.2021.e00375</a> .   |
| <b>LU Shiyao</b>  | GE Yiyao, #WANG Xixi, #HUANG Biao, HUANG Zhiqi, CHEN Bo, LING Chongyi, LIU Jiawei, LIU Guanghua, ZHANG Jie, WANG Gang, CHEN Ye, #LI Lujiang, LIAO Lingwen, WANG Lei, YUN Qinbai, LAI Zhuangchai, #LU Shiyao, #LUO Qinxin, WANG Jinlan, ZHENG Zijian, ZHANG Hua, "Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction", <i>Journal of the American Chemical Society</i> , 143(41), 06 October 2021, pp 17292-17299, doi: <a href="https://doi.org/10.1021/jacs.1c08973">https://doi.org/10.1021/jacs.1c08973</a> .  |
|                   | #ZHAI Wei, #XIONG Tengfei, #HE Zhen, #LU Shiyao, LAI Zhuangchai, HE Qiyuan, TAN Chaoliang, ZHANG Hua, "Nanodots Derived from Layered Materials: Synthesis and Applications", <i>Advanced Materials</i> , 33(46), 01 July 2021, doi: <a href="https://doi.org/10.1002/adma.202006661">https://doi.org/10.1002/adma.202006661</a> .   |
|                   | #MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> . |
|                   | GE Yiyao, #WANG Xixi, CHEN Bo, HUANG Zhiqi, SHI Zhenyu, #HUANG Biao, LIU Jiawei, WANG Gang, CHEN Ye, #LI Lujiang, #LU Shiyao, #LUO Qinxin, YUN Qinbai, ZHANG Hua, "Preparation of fcc-2H-fcc Heterophase Pd@Ir Nanostructures for High-Performance Electrochemical Hydrogen Evolution", <i>Advanced Materials</i> , 34(4), 31 October 2021, doi: <a href="https://doi.org/10.1002/adma.202107399">https://doi.org/10.1002/adma.202107399</a> .  |
|                   | #LIANG Jinzhe, GE Yiyao, #HE Zhen, YUN Qinbai, LIU Guigao, #LU Shiyao, #ZHAI Li, #HUANG Biao, ZHANG Hua, "Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials", <i>Nano Research</i> , 20 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-4007-6">https://doi.org/10.1007/s12274-021-4007-6</a> .   |
| <b>LUO Qinxin</b> | GE Yiyao, #WANG Xixi, #HUANG Biao, HUANG Zhiqi, CHEN Bo, LING Chongyi, LIU Jiawei, LIU Guanghua, ZHANG Jie, WANG Gang, CHEN Ye, #LI Lujiang, LIAO Lingwen, WANG Lei, YUN Qinbai, LAI Zhuangchai, #LU Shiyao, #LUO Qinxin, WANG Jinlan, ZHENG Zijian, ZHANG Hua, "Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction", <i>Journal of the American Chemical Society</i> , 143(41), 06 October 2021, pp 17292-17299, doi: <a href="https://doi.org/10.1021/jacs.1c08973">https://doi.org/10.1021/jacs.1c08973</a> .  |
|                   | GE Yiyao, #WANG Xixi, CHEN Bo, HUANG Zhiqi, SHI Zhenyu, #HUANG Biao, LIU Jiawei, WANG Gang, CHEN Ye, #LI Lujiang, #LU Shiyao, #LUO Qinxin, YUN Qinbai, ZHANG Hua, "Preparation of fcc-2H-fcc Heterophase Pd@Ir Nanostructures for High-Performance  |

## Section A: Publications of PhD Students

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|                     | Electrochemical Hydrogen Evolution", <i>Advanced Materials</i> , 34(4), 31 October 2021, doi: <a href="https://doi.org/10.1002/adma.202107399">https://doi.org/10.1002/adma.202107399</a> .   |
|                     | #ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with fcc-2H- fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i> , 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a> .   |
| <b>LUO Zhongbin</b> | #LUO Zhongbin, PENG Yung-kang, XIONG Haifeng, "In situ generation of active •OH on Co-SrTiO <sub>3</sub> tandem catalyst for conversion of methane to methanol", <i>Chem</i> , 8(6), 01 June 2022, pp 1545-1547, doi: <a href="https://doi.org/10.1016/j.chempr.2022.05.013">https://doi.org/10.1016/j.chempr.2022.05.013</a> .   |
|                     | #MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> . |
| <b>LYU Kaixin</b>   | #ZHAO Haizhou, #WONG Hei Yuen, #JI Danyang, #LYU Kaixin, KWOK Chun Kit, "Novel L-RNA Aptamer Controls APP Gene Expression in Cells by Targeting RNA G-Quadruplex Structure", <i>ACS Applied Materials &amp; Interfaces</i> , 14(27), 28 June 2022, pp 30582-30594, doi: <a href="https://doi.org/10.1021/acsami.2c06390">https://doi.org/10.1021/acsami.2c06390</a> .   |
|                     | #JI Danyang, #LYU Kaixin, #ZHAO Haizhou, KWOK Chun Kit, "Circular L-RNA aptamer promotes target recognition and controls gene activity", <i>Nucleic Acids Research</i> , 49(13), 07 July 2021, pp 7280-7291, doi: <a href="https://doi.org/10.1093/nar/gkab593">https://doi.org/10.1093/nar/gkab593</a> .   |
| <b>MA Tengrui</b>   | CHENG Sum Yin, #MA Tengrui, #XU Xiaohui, #DU Peng, HU Jieying, #XIN Yinger, #AHN Dohyun, HE Jun, XU Zhengtao, "A Ferrocene Metal-Organic Framework Solid for Fe-Loaded Carbon Matrices and Nanotubes: High-Yield Synthesis and Oxygen Reduction Electrocatalysis", <i>Inorganic Chemistry</i> , 60(22), 04 November 2021, pp 17315–17324, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c02696">https://doi.org/10.1021/acs.inorgchem.1c02696</a> .  |
| <b>MA Yangbo</b>    | #WANG Yunhao, #ZHOU Jingwen, LIN Chao, CHEN Bo, GUAN Zhiqiang, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, GE Yiyao, YUN Qinbai, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, LEE Chun Sing, LIU Yijin, ZHANG Qianfan, FAN Zhanxi, "Decreasing the Overpotential of Aprotic Li-CO <sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i> , 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a> .  |
|                     | #MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> . |
|                     | #ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with fcc-2H- fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i> , 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a> .   |

## Section A: Publications of PhD Students

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|----------------------------|--|
|                            | # <a href="#">GUO Weihua</a> , # <a href="#">ZHANG Yuefeng</a> , # <a href="#">SU Jianjun</a> , # <a href="#">SONG Yun</a> , # <a href="#">HUANG Libei</a> , # <a href="#">CHENG Le</a> , # <a href="#">CAO Xiaohu</a> , # <a href="#">DOU Yubing</a> , # <a href="#">MA Yangbo</a> , MA Chenyan, <a href="#">ZHU He</a> , ZHENG Tingting, WANG Zhaoyu, LI Hao, <a href="#">FAN Zhanxi</a> , <a href="#">LIU Qi</a> , <a href="#">ZENG Zhiyuan</a> , DONG Juncai, XIA Chuan, TANG Ben Zhong, <a href="#">YE Ruquan</a> , "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO <sub>2</sub> to Formate", <i>Small</i> , 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a> .   |
| <b>MAK Chiu Lam Eunice</b> | # <a href="#">XU Guangxi</a> , # <a href="#">MAK Chiu Lam Eunice</a> , <a href="#">LO Kam Wing Kenneth</a> , "Photofunctional transition metal complexes as cellular probes, bioimaging reagents and phototherapeutics", <i>Inorganic Chemistry Frontiers</i> , 8(20), 03 September 2021, pp 4553-4579, doi: <a href="https://doi.org/10.1039/d1qi00931a">https://doi.org/10.1039/d1qi00931a</a> .   |
| <b>MAN Ping</b>            | # <a href="#">MAN Ping</a> , ZHAO Jiong, SROLOVITZ David, <a href="#">LY Thuc Hue</a> , "Functional Grain Boundaries in Two-Dimensional Transition-Metal Dichalcogenides", <i>Accounts of Chemical Research</i> , 54(22), 31 October 2021, pp 4191–4202, doi: <a href="https://doi.org/10.1021/acs.accounts.1c00519">https://doi.org/10.1021/acs.accounts.1c00519</a> .  |
| <b>MENG Shuangshuang</b>   | <a href="#">ZHAO Chao</a> , # <a href="#">MENG Shuangshuang</a> , CHAN Hei-Nga, WANG Xueli, LI Hung-Wing, <a href="#">CHAN Michael Chi Wang</a> , "Saccharide-Functionalized Poly(Zn-salphen)- <i>alt</i> -( <i>m</i> - and <i>p</i> -phenyleneethynylene)s as Dynamic Helical Metallopolymers", <i>Angewandte Chemie (International Edition)</i> , 61(9), 30 December 2021, doi: <a href="https://doi.org/10.1002/anie.202115712">https://doi.org/10.1002/anie.202115712</a> .  |
| <b>MOU Xi</b>              | CHEN Xiaona, YUAN Jie, XUE Guang, CAMPANARIO Silvia, WANG Di, WANG Wen, # <a href="#">MOU Xi</a> , <a href="#">LIEW Shiau Wei</a> , <a href="#">UMAR Mubarak Ishag</a> , ISERN Joan, ZHAO Yu, HE Liangqiang, LI Yuying, MANN Christopher J., YU Xiaohua, WANG Lei, PERDIGUERO Eusebio, CHEN Wei, XUE Yuanchao, NAGAMINE Yoshikuni, <a href="#">KWOK Chun Kit</a> , SUN Hao, MUÑOZ-CÁNOVES Pura, WANG Huating, "Translational control by DHX36 binding to 5'UTR G-quadruplex is essential for muscle stem-cell regenerative functions", <i>Nature Communications</i> , 12, 19 August 2021, doi: <a href="https://doi.org/10.1038/s41467-021-25170-w">https://doi.org/10.1038/s41467-021-25170-w</a> .<br># <a href="#">MOU Xi</a> , <a href="#">LIEW Shiau Wei</a> , <a href="#">KWOK Chun Kit</a> , "Identification and targeting of G-quadruplex structures in <i>MALAT1</i> long non-coding RNA", <i>Nucleic Acids Research</i> , 50(1), 14 December 2021, pp 397-410, doi: <a href="https://doi.org/10.1093/nar/gkab1208">https://doi.org/10.1093/nar/gkab1208</a> .  |
| <b>NEACSU Vlad-Andrei</b>  | MA Qinglang, # <a href="#">WU Zhiying</a> , # <a href="#">NEACSU Vlad-Andrei</a> , # <a href="#">ZHAO Sai</a> , <a href="#">CHAI Yu</a> , <a href="#">ZHANG Hua</a> , "Recycling plastic waste into multifunctional superhydrophobic textiles", <i>Nano Research</i> , 19 March 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4249-y">https://doi.org/10.1007/s12274-022-4249-y</a> .   |
| <b>QI Feng</b>             | <a href="#">GAO Wei</a> , # <a href="#">QI Feng</a> , PENG Zhengxing, <a href="#">LIN Francis</a> , <a href="#">JIANG Kui</a> , ZHONG Cheng, KAMINSKY Werner, <a href="#">GUAN Zhiqiang</a> , <a href="#">LEE Chun Sing</a> , MARKS Tobin J., ADE Harald, <a href="#">JEN Alex</a> , "Achieving 19% Power Conversion Efficiency in Planar-Mixed Heterojunction Organic Solar Cells Using a Pseudosymmetric Electron Acceptor", <i>Advanced Materials</i> , 34(32), 20 June 2022, doi: <a href="https://doi.org/10.1002/adma.202202089">https://doi.org/10.1002/adma.202202089</a> .<br><a href="#">WU Yue</a> , <a href="#">FAN Qunping</a> , <a href="#">FAN Baobing</a> , # <a href="#">QI Feng</a> , WU Ziang, <a href="#">LIN Francis</a> , # <a href="#">LI Yang</a> , <a href="#">LEE Chun Sing</a> , WOO Han Young, <a href="#">YIP Hin Lap</a> , <a href="#">JEN Alex</a> , "Non-Fullerene Acceptor Doped Block Copolymer for Efficient and Stable Organic Solar Cells", <i>ACS Energy Letters</i> , 7(7), 03 June 2022, pp 2196-2202, doi: <a href="https://doi.org/10.1021/acseenergylett.2c01082">https://doi.org/10.1021/acseenergylett.2c01082</a> .<br><a href="#">FU Huiting</a> , PENG Zhengxing, <a href="#">FAN Qunping</a> , <a href="#">LIN Francis</a> , # <a href="#">QI Feng</a> , RAN Yixin, WU Ziang, <a href="#">FAN Baobing</a> , <a href="#">JIANG Kui</a> , WOO Han Young, LU Guanghao, ADE Harald, <a href="#">JEN Alex</a> , "A Top-Down Strategy to Engineer ActiveLayer Morphology for Highly Efficient and Stable All-Polymer Solar Cells", <i>Advanced Materials</i> , 34(33), 24 June 2022, doi: <a href="https://doi.org/10.1002/adma.202202608">https://doi.org/10.1002/adma.202202608</a> .<br># <a href="#">DENG Xiang</a> , # <a href="#">QI Feng</a> , # <a href="#">LI Fengzhu</a> , WU Shengfan, <a href="#">LIN Francis</a> , # <a href="#">ZHANG Zhuomin</a> , <a href="#">GUAN Zhiqiang</a> , <a href="#">YANG Zhengbao</a> , <a href="#">LEE Chun Sing</a> , <a href="#">JEN Alex</a> , "Co-assembled Monolayers as Hole-selective Contact for High-Performance Inverted Perovskite Solar Cells with Optimized Recombination Loss and Long-Term Stability", <i>Angewandte Chemie (International Edition)</i> , 12 May 2022, doi: <a href="https://doi.org/10.1002/anie.202203088">https://doi.org/10.1002/anie.202203088</a> .<br><a href="#">FU Huiting</a> , <a href="#">FAN Qunping</a> , <a href="#">GAO Wei</a> , OH Jiyeon, <a href="#">LI Yuxiang</a> , <a href="#">LIN Francis</a> , # <a href="#">QI Feng</a> , YANG Changduk, MARKS Tobin J., <a href="#">JEN Alex</a> , "16.3% Efficiency binary all-polymer solar cells enabled by a novel polymer acceptor with an asymmetrical selenophene-fused backbone", <i>Science China Chemistry</i> , 65(2), 03 December 2021, pp 309–317, doi: <a href="https://doi.org/10.1007/s11426-021-1140-x">https://doi.org/10.1007/s11426-021-1140-x</a> . |

## Section A: Publications of PhD Students

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|                             | <p>#<u>QI Feng</u>, JONES Leighton O., <u>JIANG Kui</u>, JANG Sei-Hum, KAMINSKY Werner, OH Jiyeon, ZHANG Hongna, CAI Zongwei, YANG Changduk, KOHLSTEDT Kevin L., SCHATZ George C., <u>LIN Francis</u>, MARKS Tobin J., <u>JEN Alex</u>, "Regiospecific <i>N</i>-alkyl substitution tunes the molecular packing of high-performance non-fullerene acceptors", <i>Materials Horizons</i>, 01 October 2021, doi: <a href="https://doi.org/10.1039/d1mh01127h">https://doi.org/10.1039/d1mh01127h</a>.</p> <p>#<u>QI Feng</u>, <u>LIN Francis</u>, <u>JEN Alex</u>, "Selenium: A Unique Member in the Chalcogen Family for Conjugated Materials Used in Perovskite and Organic Solar Cells", <i>Solar RRL</i>, 6(7), 03 April 2022, doi: <a href="https://doi.org/10.1002/solr.202200156">https://doi.org/10.1002/solr.202200156</a>.</p>  |
| <b>QIN Xian</b>             | <p><u>MO Jiezhong</u>, #<u>WAN Teng</u>, <u>AU Wai Ting Doris</u>, <u>SHI Jingchun</u>, #<u>TAM Nathan Yi Kan</u>, #<u>QIN Xian</u>, <u>CHEUNG Kwok Ming</u>, <u>LAI Keng Po</u>, WINKLER Christoph, <u>KONG Yuen Chong Richard</u>, SEEMANN Frauke, "Transgenerational bone toxicity in F3 medaka (<i>Oryzias latipes</i>) induced by ancestral benzo[a]pyrene exposure: Cellular and transcriptomic insights", <i>Journal of Environmental Sciences (China)</i>, 127, 10 May 2022, pp 336-348, doi: <a href="https://doi.org/10.1016/j.jes.2022.04.051">https://doi.org/10.1016/j.jes.2022.04.051</a>.</p>   |
| <b>SHEK Hau Lam</b>         | <p>#<u>YEUNG Chi Fung</u>, #<u>SHEK Hau Lam</u>, <u>YIU Shek Man Ken</u>, <u>TSE Man Kit</u>, <u>WONG Chun Yuen Alex</u>, "Controlled Activation of Dipicolinyl-Substituted Propargylic Alcohol by Ru(II) and Os(II) for Unprecedented Indolizine-Fused Metallafuran Complexes", <i>Organometallics</i>, 40(15), 14 July 2021, pp 2458–2466, doi: <a href="https://doi.org/10.1021/acs.organomet.1c00197">https://doi.org/10.1021/acs.organomet.1c00197</a>.</p> <p>#<u>YEUNG Chi Fung</u>, <u>TANG Sik Him</u>, #<u>YANG Zhe</u>, <u>LI Tsun-Yin</u>, <u>LI Ka Kit</u>, <u>CHAN Yuen Man Shirley</u>, #<u>SHEK Hau Lam</u>, #<u>IO Kai Wa</u>, <u>TAM King-Ting</u>, <u>YIU Shek Man Ken</u>, <u>TSE Man Kit</u>, <u>WONG Chun Yuen Alex</u>, "Ruthenafuran Complexes Supported by the Bipyridine-is(diphenylphosphino)methane Ligand Set: Synthesis and Cytotoxicity Studies", <i>Molecules</i>, 27(5), 05 March 2022, doi: <a href="https://doi.org/10.3390/molecules27051709">https://doi.org/10.3390/molecules27051709</a>.</p>   |
| <b>SHUM Justin</b>          | <p>#<u>ZHU Jinghui</u>, #<u>XU Guangxi</u>, #<u>SHUM Justin</u>, <u>LEE Cho Cheung</u>, <u>LO Kam Wing Kenneth</u>, "Tuning the organelle specificity and cytotoxicity of iridium(III) photosensitisers for enhanced phototheranostic applications", <i>Chemical Communications</i>, 57(90), 05 October 2021, pp 12008-12011, doi: <a href="https://doi.org/10.1039/d1cc04982h">https://doi.org/10.1039/d1cc04982h</a>.</p>  |
| <b>SIVCHENKO Anastasiia</b> | <p>WITTMANN Christopher, #<u>SIVCHENKO Anastasiia</u>, BACHER Felix, <u>TONG Ki Hon Kelvin</u>, GURU Navjot, WILSON Thomas, GONZALES Junior, RAUCH Hartmut, KOSSATZ Susanne, REINER Thomas, <u>BABAK Maria</u>, ARION Vladimir B., "Inhibition of Microtubule Dynamics in Cancer Cells by Indole-Modified Latonduine Derivatives and Their Metal Complexes", <i>Inorganic Chemistry</i>, 61(3), 07 January 2022, pp 1456–1470, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c03154">https://doi.org/10.1021/acs.inorgchem.1c03154</a>.</p>   |
| <b>SONG Tianyi</b>          | <p>#<u>WU Yan</u>, #<u>SONG Tianyi</u>, <u>CHEN Li-Na</u>, "A review on recent developments of vanadium-based cathode for rechargeable zinc-ion batteries", <i>Tungsten</i>, 3(3), 01 July 2021, pp 289-304, doi: <a href="https://doi.org/10.1007/s42864-021-00091-9">https://doi.org/10.1007/s42864-021-00091-9</a>.</p> <p>#<u>WU Yan</u>, #<u>ZHU Zhaohua</u>, <u>SHEN Dong</u>, <u>CHEN Lina</u>, #<u>SONG Tianyi</u>, #<u>KANG Tianxing</u>, <u>TONG Zhongqiu</u>, <u>TANG Yongbing</u>, <u>WANG Hui</u>, <u>LEE Chun Sing</u>, "Electrolyte engineering enables stable Zn-Ion deposition for long-cycling life aqueous Zn-ion batteries", <i>Energy Storage Materials</i>, 45, 04 November 2021, pp 1084-1091, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.003">https://doi.org/10.1016/j.ensm.2021.11.003</a>.</p>  |
| <b>SONG Yun</b>             | <p>#<u>HUANG Libei</u>, #<u>GUO Weihua</u>, #<u>CHENG Le</u>, #<u>SU Jianjun</u>, #<u>SONG Yun</u>, <u>HU Fei-Jun</u>, <u>LAW Ying Lo</u>, <u>YAN Zheng</u>, <u>LIN Jian</u>, <u>YE Ruquan</u>, "Differentiating structure of in situ and ex situ formation of laser-induced graphene hybrids", <i>Rare Metals</i>, 41(9), 23 June 2022, pp 3035–3044, doi: <a href="https://doi.org/10.1007/s12598-022-02027-9">https://doi.org/10.1007/s12598-022-02027-9</a>.</p> <p>#<u>SU Jianjun</u>, #<u>LIU Yong</u>, #<u>SONG Yun</u>, #<u>HUANG Libei</u>, #<u>GUO Weihua</u>, #<u>CAO Xiaohu</u>, #<u>DOU Yubing</u>, #<u>CHENG Le</u>, #<u>LI Geng</u>, #<u>HU Qishi</u>, <u>YE Ruquan</u>, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i>, 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a>.</p> <p><u>TIAN Pengfei</u>, #<u>SU Jianjun</u>, #<u>SONG Yun</u>, <u>YE Ruquan</u>, <u>ZHU Minghui</u>, "Electroreduction of Carbon Dioxide by Heterogenized Cofacial Porphyrins", <i>Transactions of Tianjin University</i>, 28(1), 03 August 2021, pp 73-79, doi: <a href="https://doi.org/10.1007/s12209-021-00305-8">https://doi.org/10.1007/s12209-021-00305-8</a>.</p> |



Section A: Publications of PhD Students

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|------------|---|
|            | <p>#GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, ZHU He, ZHENG Tingting, WANG Zhaoyu, LI Hao, FAN Zhanxi, LIU Qi, ZENG Zhiyuan, DONG Juncai, XIA Chuan, TANG Ben Zhong, YE Ruquan, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO<sub>2</sub> to Formate", <i>Small</i>, 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a>.</p> |
|            | <p>#LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p>  |
| SU Jianjun | <p>#HUANG Libei, #GUO Weihua, #CHENG Le, #SU Jianjun, #SONG Yun, HU Fei-Jun, LAW Ying Lo, YAN Zheng, LIN Jian, YE Ruquan, "Differentiating structure of in situ and ex situ formation of laser-induced graphene hybrids", <i>Rare Metals</i>, 41(9), 23 June 2022, pp 3035–3044, doi: <a href="https://doi.org/10.1007/s12598-022-02027-9">https://doi.org/10.1007/s12598-022-02027-9</a>.</p>  |
|            | <p>#SU Jianjun, #LIU Yong, #SONG Yun, #HUANG Libei, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #LI Geng, #HU Qiushi, YE Ruquan, "Recent development of nanomaterials for carbon dioxide electroreduction", <i>SMARTMAT</i>, 3(1), March 2022, pp 35-53, doi: <a href="https://doi.org/10.1002/smm2.1106">https://doi.org/10.1002/smm2.1106</a>.</p>  |
|            | <p>TIAN Pengfei, #SU Jianjun, #SONG Yun, YE Ruquan, ZHU Minghui, "Electroreduction of Carbon Dioxide by Heterogenized Cofacial Porphyrins", <i>Transactions of Tianjin University</i>, 28(1), 03 August 2021, pp 73-79, doi: <a href="https://doi.org/10.1007/s12209-021-00305-8">https://doi.org/10.1007/s12209-021-00305-8</a>.</p>   |
|            | <p>#GUO Weihua, #ZHANG Yuefeng, #SU Jianjun, #SONG Yun, #HUANG Libei, #CHENG Le, #CAO Xiaohu, #DOU Yubing, #MA Yangbo, MA Chenyan, ZHU He, ZHENG Tingting, WANG Zhaoyu, LI Hao, FAN Zhanxi, LIU Qi, ZENG Zhiyuan, DONG Juncai, XIA Chuan, TANG Ben Zhong, YE Ruquan, "Transient Solid-State Laser Activation of Indium for High-Performance Reduction of CO<sub>2</sub> to Formate", <i>Small</i>, 18(24), 13 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201311">https://doi.org/10.1002/sml.202201311</a>.</p> |
|            | <p>#LI Geng, #LIU Yong, #ZHANG Qiang, #HU Qiushi, #GUO Weihua, #CAO Xiaohu, #DOU Yubing, #CHENG Le, #SONG Yun, #SU Jianjun, #HUANG Libei, YE Ruquan, "Development of catalysts and electrolyzers toward industrial-scale CO<sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i>, 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a>.</p>  |
| SUN Guohan | <p>#SUN Guohan, LI Molly Meng-Jung, NAKAGAWA Keizo, LI Guangchao, WU Tai-Sing, PENG Yung-kang, "Bulk-to-nano regulation of layered metal oxide gears H<sub>2</sub>O<sub>2</sub> activation pathway for its stoichiometric utilization in selective oxidation reaction", <i>Applied Catalysis B: Environmental</i>, 313, 04 May 2022, doi: <a href="https://doi.org/10.1016/j.apcatb.2022.121461">https://doi.org/10.1016/j.apcatb.2022.121461</a>.</p>  |
| SUN Qidi   | <p>CHEN Lina, ZHENG Xiaowen, HAO Chongyang, #SUN Qidi, SI Pengchao, CI Lijie, WEI Jun, "Enhanced ions and electrons transmission enables high-performance K<sub>x</sub>MnO@C cathode for hybrid supercapacitors", <i>Ceramics International</i>, 48(12), 11 March 2022, pp 16516-16521, doi: <a href="https://doi.org/10.1016/j.ceramint.2022.02.025">https://doi.org/10.1016/j.ceramint.2022.02.025</a>.</p>   |
|            | <p>#LI Xintong, #LIU Yizhe, #SUN Qidi, HUANG Wei-Hsiang, WANG Zilong, CHUEH Chu-Chen, CHEN Chi-Liang, ZHU Zonglong, "Surface engineered CoP/Co<sub>3</sub>O<sub>4</sub> heterojunction for high-performance bi-functional water splitting electro-catalysis", <i>Nanoscale</i>, 13(47), 10 November 2021, pp 20281-20288, doi: <a href="https://doi.org/10.1039/d1nr06044a">https://doi.org/10.1039/d1nr06044a</a>.</p>   |
|            | <p>CHEN Lina, ZHANG Yamin, HAO Chongyang, ZHENG Xiaowen, #SUN Qidi, WEI Youri, LI Bohao, CI Lijie, WEI Jun, "Interlayer Engineering of K<sub>x</sub>MnO<sub>2</sub> Enables Superior Alkali Metal Ion Storage for Advanced Hybrid Capacitors", <i>ChemElectroChem</i>, 9(12), 20 June 2022, doi: <a href="https://doi.org/10.1002/celec.202200059">https://doi.org/10.1002/celec.202200059</a>.</p>   |
|            | <p>#LIU Yizhe, #LI Xintong, #SUN Qidi, WANG Zilong, HUANG Wei-Hsiang, GUO Xuyun, FAN Zhanxi, YE Ruquan, ZHU Ye, CHUEH Chu-Chen, CHEN Chi-Liang, ZHU Zonglong, "Freestanding 2D NiFe Metal–Organic Framework Nanosheets: Facilitating Proton Transfer via Organic Ligands for Efficient Oxygen Evolution Reaction", <i>Small</i>, 18(26), 31 May 2022, doi: <a href="https://doi.org/10.1002/sml.202201076">https://doi.org/10.1002/sml.202201076</a>.</p>   |

Section A: Publications of PhD Students

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| <p><b>TAM Nathan Yi Kan</b></p> | <p>LAI Keng Po, #TAM Nathan Yi Kan, CHEN Yuelong, <u>LEUNG Chi Tim</u>, LIN Xiao, <u>TSANG Chau Fong</u>, #KWOK Yin Cheung, TSE William Ka-Fai, <u>CHENG Shuk Han</u>, CHAN Ting Fung, <u>KONG Yuen Chong Richard</u>, "miRNA–mRNA Integrative Analysis Reveals the Roles of miRNAs in Hypoxia-Altered Embryonic Development- and Sex Determination-Related Genes of Medaka Fish", <i>Frontiers in Marine Science</i>, 8, 21 January 2022, doi: <a href="https://doi.org/10.3389/fmars.2021.736362">https://doi.org/10.3389/fmars.2021.736362</a>.</p> <p><u>LEUNG Chi Tim</u>, YANG Yi, <u>YU Kwan Ngok Peter</u>, #TAM Nathan Yi Kan, CHAN Ting Fung, LIN Xiao, <u>KONG Yuen Chong Richard</u>, CHIU Man Ying, WONG Alice Sze Tsai, LUI Wing Yee, YUEN Karen Wing-Yee, LAI Keng Po, WU Shiu Sun Rudolf, "Low-Dose Radiation Can Cause Epigenetic Alterations Associated With Impairments in Both Male and Female Reproductive Cells", <i>Frontiers in Genetics</i>, 12, 02 August 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.710143">https://doi.org/10.3389/fgene.2021.710143</a>.</p> <p>#TAM Nathan Yi Kan, LAI Keng Po, <u>KONG Yuen Chong Richard</u>, "Comparative transcriptomic analysis reveals reproductive impairments caused by PCBs and OH-PCBs through the dysregulation of ER and AR signaling", <i>Science of the Total Environment</i>, 802, 27 August 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.149913">https://doi.org/10.1016/j.scitotenv.2021.149913</a>.</p> <p><u>MO Jiezhong</u>, #WAN Teng, <u>AU Wai Ting Doris</u>, <u>SHI Jingchun</u>, #TAM Nathan Yi Kan, #<u>QIN Xian</u>, <u>CHEUNG Kwok Ming</u>, LAI Keng Po, WINKLER Christoph, <u>KONG Yuen Chong Richard</u>, SEEMANN Frauke, "Transgenerational bone toxicity in F3 medaka (<i>Oryzias latipes</i>) induced by ancestral benzo[a]pyrene exposure: Cellular and transcriptomic insights", <i>Journal of Environmental Sciences (China)</i>, 127, 10 May 2022, pp 336-348, doi: <a href="https://doi.org/10.1016/j.jes.2022.04.051">https://doi.org/10.1016/j.jes.2022.04.051</a>.</p>  |
| <p><b>TAN Jihua</b></p>         | <p>CHEN Lifen, CHEN Wencheng, YANG Zhiwen, #TAN Jihua, JI Shaomin, ZHANG Hao-Li, HUO Yanping, <u>LEE Chun Sing</u>, "Triplet harvesting aryl carbonyl-based luminescent materials: progress and prospective", <i>Journal of Materials Chemistry C</i>, 9(48), 02 December 2021, pp 17233-17264, doi: <a href="https://doi.org/10.1039/d1tc04184c">https://doi.org/10.1039/d1tc04184c</a>.</p> <p><u>WANG Ruifang</u>, LI Zhiyi, HU Taiping, TIAN Lei, HU Xiaoxiao, <u>LIU Shihao</u>, #CAO Chen, <u>ZHU Zelin</u>, #TAN Jihua, YI Yuanping, WANG Pengfei, <u>LEE Chun Sing</u>, WANG Ying, "Two-Channel Space Charge Transfer-Induced Thermally Activated Delayed Fluorescent Materials for Efficient OLEDs with Low Efficiency Roll-Off", <i>ACS Applied Materials and Interfaces</i>, 13(41), 06 October 2021, pp 49066-49075, doi: <a href="https://doi.org/10.1021/acsami.1c12627">https://doi.org/10.1021/acsami.1c12627</a>.</p> <p>YIN Chao, TAI Xiaoyan, #LI Xiaozhen, #TAN Jihua, <u>LEE Chun Sing</u>, SUN Pengfei, FAN Quli, HUANG Wei, "Side chain engineering of semiconducting polymers for improved NIR-II fluorescence imaging and photothermal therapy", <i>Chemical Engineering Journal</i>, 428, 31 August 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132098">https://doi.org/10.1016/j.cej.2021.132098</a>.</p> <p>TAN Hong-Ji, YANG Guo-Xi, DENG Ying-Lan, #CAO Chen, #TAN Jihua, <u>ZHU Zelin</u>, CHEN Wencheng, <u>XIONG Yuan</u>, JIAN Jing-Xin, <u>LEE Chun Sing</u>, TONG Qingxiao, "Deep-Blue OLEDs with Rec.2020 Blue Gamut Compliance and EQE Over 22% Achieved by Conformation Engineering", <i>Advanced Materials</i>, 34(18), 02 March 2022, doi: <a href="https://doi.org/10.1002/adma.202200537">https://doi.org/10.1002/adma.202200537</a>.</p> <p><u>GUAN Zhiqiang</u>, #LI Yang, #ZHU Zhaohua, #ZENG Zixin, SHEN Dong, #TAN Jihua, <u>TSANG Sai Wing</u>, <u>LIU Shihao</u>, <u>LEE Chun Sing</u>, "Efficient Perovskite White Light-Emitting Diode Based on an Interfacial Charge-Confinement Structure", <i>ACS Applied Materials and Interfaces</i>, 13(37), 07 September 2021, pp 44991-45000, doi: <a href="https://doi.org/10.1021/acsami.1c09715">https://doi.org/10.1021/acsami.1c09715</a>.</p> <p>ZHOU Lu, CHEN Wencheng, #TAN Jihua, JI Shaomin, YANG Qingdan, MU Yingxiao, ZHANG Hao-Li, ZHAO Jingwei, HUO Yanping, <u>LEE Chun Sing</u>, "Versatile azaryl-ketone-based blue AIEgens for efficient organic light-emitting diodes", <i>Dyes and Pigments</i>, 195, 19 August 2021, doi: <a href="https://doi.org/10.1016/j.dyepig.2021.109729">https://doi.org/10.1016/j.dyepig.2021.109729</a>.</p> <p><u>ZHU Zelin</u>, WANG Sheng Fu, FU Li-Wen, #TAN Jihua, #CAO Chen, YUAN Yi, YIU Shek Man Ken, ZHANG Ye-Xin, <u>CHI Yun</u>, <u>LEE Chun Sing</u>, "Efficient Pyrazolo[5,4-f]quinoxaline Functionalized Os(II) Based Emitter with an Electroluminescence Peak Maximum at 811 nm", <i>Chemistry - A European Journal</i>, 28(4), 23 November 2021, doi: <a href="https://doi.org/10.1002/chem.202103202">https://doi.org/10.1002/chem.202103202</a>.</p> |

Section A: Publications of PhD Students

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| <b>TAN Zicong</b>  | # <a href="#">TAN Zicong</a> , <a href="#">WANG Ying</a> , <a href="#">ZHANG Jie</a> , <a href="#">ZHANG Zhang</a> , <a href="#">MAN WONG Samantha Sze</a> , <a href="#">ZHANG Shiqing</a> , <a href="#">SUN Hongyan</a> , <a href="#">YUNG Ken Kin Lam</a> , <a href="#">PENG Yung-kang</a> , "Shape Regulation of CeO <sub>2</sub> Nanozymes Boosts Reaction Specificity and Activity", <i>European Journal of Inorganic Chemistry</i> , 2022(20), 10 June 2022, doi: <a href="https://doi.org/10.1002/ejic.202200202">https://doi.org/10.1002/ejic.202200202</a> .  |
| <b>TAO Danyang</b>   | # <a href="#">CAO Yaru</a> , # <a href="#">XU Shaopeng</a> , <a href="#">ZHANG Kai</a> , # <a href="#">LIN Huiju</a> , <a href="#">WU Rongben</a> , # <a href="#">LAO Jiayong</a> , # <a href="#">TAO Danyang</a> , <a href="#">LIU Mengyang</a> , <a href="#">LEUNG Mei Yee Kenneth</a> , <a href="#">LAM Kwan Sing Paul</a> , "Spatiotemporal occurrence of phthalate esters in stormwater drains of Hong Kong, China: Mass loading and source identification", <i>Environmental Pollution</i> , 308, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.119683">https://doi.org/10.1016/j.envpol.2022.119683</a> .   |
|  | # <a href="#">TAO Danyang</a> , <a href="#">JIN Qianqian</a> , <a href="#">RUAN Yuefei Phoebe</a> , <a href="#">ZHANG Kai</a> , <a href="#">JIN Linjie</a> , # <a href="#">ZHAN Yuting</a> , <a href="#">SU Guanyong</a> , <a href="#">WU Jiaxue</a> , <a href="#">LEUNG Mei Yee Kenneth</a> , <a href="#">LAM Kwan Sing Paul</a> , <a href="#">HE Yuhe</a> , "Widespread occurrence of emerging E-waste contaminants – Liquid crystal monomers in sediments of the Pearl River Estuary, China", <i>Journal of Hazardous Materials</i> , 437, 15 June 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.129377">https://doi.org/10.1016/j.jhazmat.2022.129377</a> . |
|  | <a href="#">JIN Qianqian</a> , # <a href="#">TAO Danyang</a> , # <a href="#">LU Yichun</a> , # <a href="#">SUN Jiaji</a> , <a href="#">LAM Jason</a> , <a href="#">SU Guanyong</a> , <a href="#">HE Yuhe</a> , "New insight on occurrence of liquid crystal monomers: A class of emerging e-waste pollutants in municipal landfill leachate", <i>Journal of Hazardous Materials</i> , 423, 10 September 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.127146">https://doi.org/10.1016/j.jhazmat.2021.127146</a> .   |
|  | # <a href="#">TAO Danyang</a> , <a href="#">SHI Changzhi</a> , <a href="#">GUO Wei</a> , <a href="#">DENG Yamin</a> , <a href="#">PENG Yue'e</a> , <a href="#">HE Yuhe</a> , <a href="#">LAM Kwan Sing Paul</a> , <a href="#">HE Yuanyuan</a> , <a href="#">ZHANG Kai</a> , "Determination of As species distribution and variation with time in extracted groundwater samples by on-site species separation method", <i>Science of the Total Environment</i> , 808, 02 December 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.151913">https://doi.org/10.1016/j.scitotenv.2021.151913</a> .  |
|  | # <a href="#">TAO Danyang</a> , <a href="#">ZHANG Kai</a> , # <a href="#">XU Shaopeng</a> , # <a href="#">LIN Huiju</a> , <a href="#">LIU Yuan</a> , <a href="#">KANG Jingliang</a> , <a href="#">YIM Tszewai</a> , <a href="#">GIESY John Paul</a> , <a href="#">LEUNG Mei Yee Kenneth</a> , "Microfibers Released into the Air from a Household Tumble Dryer", <i>Environmental Science and Technology Letters</i> , 9(2), 12 January 2022, pp 120-126, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00911">https://doi.org/10.1021/acs.estlett.1c00911</a> .   |
|  | # <a href="#">XU Shaopeng</a> , <a href="#">CHEN Luoluo</a> , <a href="#">ZHANG Kai</a> , # <a href="#">CAO Yaru</a> , <a href="#">MA Yue</a> , <a href="#">CHAU Hoi Shan</a> , # <a href="#">TAO Danyang</a> , <a href="#">WU Chenxi</a> , <a href="#">LI Chengtao</a> , <a href="#">LAM Kwan Sing Paul</a> , "Microplastic occurrence in the northern South China Sea, A case for Pre and Post cyclone analysis", <i>Chemosphere</i> , 296, 14 February 2022, doi: <a href="https://doi.org/10.1016/j.chemosphere.2022.133980">https://doi.org/10.1016/j.chemosphere.2022.133980</a> .   |
|  | # <a href="#">LIU Shihao</a> , <a href="#">ZANG Chunxiu</a> , <a href="#">ZHANG Jiaming</a> , # <a href="#">TIAN Shuang</a> , # <a href="#">WU Yan</a> , <a href="#">SHEN Dong</a> , <a href="#">ZHANG Letian</a> , <a href="#">XIE Wenfa</a> , <a href="#">LEE Chun Sing</a> , "Air-Stable Ultrabright Inverted Organic Light-Emitting Devices with Metal Ion-Chelated Polymer Injection Layer", <i>Nano-Micro Letters</i> , 14(1), 06 December 2021, doi: <a href="https://doi.org/10.1007/s40820-021-00745-w">https://doi.org/10.1007/s40820-021-00745-w</a> .  |
| # <a href="#">XIAO Yafang</a> , <a href="#">CHEN Wencheng</a> , <a href="#">CHEN Jiexiong</a> , <a href="#">LU Guihong</a> , # <a href="#">TIAN Shuang</a> , <a href="#">CUI Xiao</a> , <a href="#">ZHANG Zhen</a> , # <a href="#">CHEN Huan</a> , # <a href="#">WAN Yingpeng</a> , <a href="#">LI Shengliang</a> , <a href="#">LEE Chun Sing</a> , "Amplifying Free Radical Generation of AIE Photosensitizer with Small Singlet-Triplet Splitting for Hypoxia-Overcoming Photodynamic Therapy", <i>ACS Applied Materials and Interfaces</i> , 14(4), 20 January 2022, pp 5112–5121, doi: <a href="https://doi.org/10.1021/acsami.1c23797">https://doi.org/10.1021/acsami.1c23797</a> . |  |
| # <a href="#">HUANG Zhongming</a> , # <a href="#">WAN Yingpeng</a> , # <a href="#">LIANG Jianli</a> , # <a href="#">XIAO Yafang</a> , # <a href="#">LI Xiaozhen</a> , <a href="#">CUI Xiao</a> , # <a href="#">TIAN Shuang</a> , # <a href="#">ZHAO Qi</a> , <a href="#">LI Shengliang</a> , <a href="#">LEE Chun Sing</a> , "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier", <i>ACS Applied Materials &amp; Interfaces</i> , 13(27), 05 July 2021, pp 31624–31634, doi: <a href="https://doi.org/10.1021/acsami.1c06000">https://doi.org/10.1021/acsami.1c06000</a> .  |  |
| <b>WA Qingbo</b>   | <a href="#">YUN Qinbai</a> , <a href="#">GE Yiyao</a> , <a href="#">CHEN Bo</a> , # <a href="#">LI Lujiang</a> , # <a href="#">WA Qingbo</a> , # <a href="#">LONG Huiwu</a> , <a href="#">ZHANG Hua</a> , "Hybridization of 2D Nanomaterials with 3D Graphene Architectures for Electrochemical Energy Storage and Conversion", <i>Advanced Functional Materials</i> , 14 April 2022, doi: <a href="https://doi.org/10.1002/adfm.202202319">https://doi.org/10.1002/adfm.202202319</a> .   |
| <b>WAN Teng</b>  | # <a href="#">WAN Teng</a> , <a href="#">AU Wai Ting Doris</a> , <a href="#">MO Jiezhong</a> , <a href="#">CHEN Lianguo</a> , <a href="#">CHEUNG Kwok Ming</a> , <a href="#">KONG Yuen Chong Richard</a> , <a href="#">SEEMANN Frauke</a> , "Assessment of parental benzo[a]pyrene exposure-induced cross-generational neurotoxicity and changes in offspring sperm DNA methylation in medaka fish", <i>Environmental Epigenetics</i> , 8(1), 25 June 2022, doi: <a href="https://doi.org/10.1093/eep/dvac013">https://doi.org/10.1093/eep/dvac013</a> .   |

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|                     | <p><u>MO Jiezhang</u>, #<u>WAN Teng</u>, <u>AU Wai Ting Doris</u>, <u>SHI Jingchun</u>, #<u>TAM Nathan Yi Kan</u>, #<u>QIN Xian</u>, <u>CHEUNG Kwok Ming</u>, <u>LAI Keng Po</u>, <u>WINKLER Christoph</u>, <u>KONG Yuen Chong Richard</u>, SEEMANN Frauke, "Transgenerational bone toxicity in F3 medaka (<i>Oryzias latipes</i>) induced by ancestral benzo[a]pyrene exposure: Cellular and transcriptomic insights", <i>Journal of Environmental Sciences (China)</i>, 127, 10 May 2022, pp 336-348, doi: <a href="https://doi.org/10.1016/j.jes.2022.04.051">https://doi.org/10.1016/j.jes.2022.04.051</a>.</p> |
| <b>WAN Yingpeng</b> | <p>#<u>CHEN Huan</u>, #<u>WAN Yingpeng</u>, <u>CUI Xiao</u>, <u>LI Shengliang</u>, <u>LEE Chun Sing</u>, "Recent Advances in Hypoxia-Overcoming Strategy of Aggregation-Induced Emission Photosensitizers for Efficient Photodynamic Therapy", <i>Advanced Healthcare Materials</i>, 10(24), 21 October 2021, doi: <a href="https://doi.org/10.1002/adhm.202101607">https://doi.org/10.1002/adhm.202101607</a>.</p>   |
|                     | <p><u>ZHANG Rui</u>, #<u>WAN Yingpeng</u>, <u>LV Hongying</u>, <u>LI Futian</u>, <u>LEE Chun Sing</u>, "DTX@VTX NPs synergy PD-L1 immune checkpoint nanoinhibitor to reshape immunosuppressive tumor microenvironment for enhancing chemo-immunotherapy", <i>Journal of Materials Chemistry B</i>, 9(36), 11 August 2021, pp 7544-7556, doi: <a href="https://doi.org/10.1039/d1tb00269d">https://doi.org/10.1039/d1tb00269d</a>.</p>   |
|                     | <p>#<u>LI Xiaozhen</u>, #<u>ZHANG Di</u>, <u>LU Guihong</u>, <u>HE Tingchao</u>, #<u>WAN Yingpeng</u>, <u>TSE Man Kit</u>, <u>REN Can</u>, <u>WANG Pengfei</u>, <u>LI Shengliang</u>, <u>LUO Jingdong</u>, <u>LEE Chun Sing</u>, "Photochemical Synthesis of Nonplanar Small Molecules with Ultrafast Nonradiative Decay for Highly Efficient Phototheranostics", <i>Advanced Materials</i>, 28 July 2021, doi: <a href="https://doi.org/10.1002/adma.202102799">https://doi.org/10.1002/adma.202102799</a>.</p>  |
|                     | <p>#<u>XIAO Yafang</u>, <u>CHEN Wencheng</u>, <u>CHEN Jiexiong</u>, <u>LU Guihong</u>, #<u>TIAN Shuang</u>, <u>CUI Xiao</u>, <u>ZHANG Zhen</u>, #<u>CHEN Huan</u>, #<u>WAN Yingpeng</u>, <u>LI Shengliang</u>, <u>LEE Chun Sing</u>, "Amplifying Free Radical Generation of AIE Photosensitizer with Small Singlet-Triplet Splitting for Hypoxia-Overcoming Photodynamic Therapy", <i>ACS Applied Materials and Interfaces</i>, 14(4), 20 January 2022, pp 5112–5121, doi: <a href="https://doi.org/10.1021/acsami.1c23797">https://doi.org/10.1021/acsami.1c23797</a>.</p>   |
|                     | <p>#<u>HUANG Zhongming</u>, #<u>WAN Yingpeng</u>, #<u>LIANG Jianli</u>, #<u>XIAO Yafang</u>, #<u>LI Xiaozhen</u>, <u>CUI Xiao</u>, #<u>TIAN Shuang</u>, #<u>ZHAO Qi</u>, <u>LI Shengliang</u>, <u>LEE Chun Sing</u>, "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier", <i>ACS Applied Materials &amp; Interfaces</i>, 13(27), 05 July 2021, pp 31624–31634, doi: <a href="https://doi.org/10.1021/acsami.1c06000">https://doi.org/10.1021/acsami.1c06000</a>.</p>   |
|                     | <p><u>YANG Liu</u>, #<u>LIU Guopan</u>, #<u>CHEN Qingxin</u>, #<u>WAN Yingpeng</u>, #<u>LIU Zhiyang</u>, #<u>ZHANG Jie</u>, #<u>HUANG Chen</u>, <u>XU Zhiqiang</u>, <u>LI Shengliang</u>, <u>LEE Chun Sing</u>, <u>ZHANG Liang</u>, <u>SUN Hongyan</u>, "An Activatable NIR Probe for the Detection and Elimination of Senescent Cells", <i>Analytical Chemistry</i>, 94(13), 23 March 2022, pp 5425–5431, doi: <a href="https://doi.org/10.1021/acs.analchem.2c00239">https://doi.org/10.1021/acs.analchem.2c00239</a>.</p>  |
|                     | <p><u>FANG Fang</u>, <u>YUAN Yi</u>, #<u>WAN Yingpeng</u>, <u>LI Jing</u>, <u>SONG Yueyue</u>, <u>CHEN Wencheng</u>, <u>ZHAO Dongxu</u>, <u>CHI Yun</u>, <u>LI Menglin</u>, <u>LEE Chun Sing</u>, <u>ZHANG Jinfeng</u>, "Near-Infrared Thermally Activated Delayed Fluorescence Nanoparticle: A Metal-Free Photosensitizer for Two-Photon-Activated Photodynamic Therapy at the Cell and Small Animal Levels", <i>Small</i>, 18(6), 12 January 2022, doi: <a href="https://doi.org/10.1002/smll.202106215">https://doi.org/10.1002/smll.202106215</a>.</p>  |
|                     | <p><u>TONG Zhongqiu</u>, #<u>KANG Tianxing</u>, #<u>WAN Yingpeng</u>, #<u>YANG Rui</u>, #<u>WU Yan</u>, <u>SHEN Dong</u>, <u>LIU Shihao</u>, <u>TANG Yongbing</u>, <u>LEE Chun Sing</u>, "A Ca-Ion Electrochromic Battery via a Water-in-Salt Electrolyte", <i>Advanced Functional Materials</i>, 31(41), 14 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104639">https://doi.org/10.1002/adfm.202104639</a>.</p>   |
| <b>WANG Fei</b>     | <p>#<u>WANG Fei</u>, <u>LIU Ling Sum</u>, #<u>LI Pan</u>, #<u>LEUNG Hoi Man</u>, <u>TAM Dick Yan</u>, <u>LO Pik Kwan Peggy</u>, "Biologically stable threose nucleic acid-based probes for real-time microRNA detection and imaging in living cells", <i>Molecular Therapy - Nucleic Acids</i>, 27, 03 January 2022, pp 787-796, doi: <a href="https://doi.org/10.1016/j.omtn.2021.12.040">https://doi.org/10.1016/j.omtn.2021.12.040</a>.</p>  |
|                     | <p>#<u>WANG Fei</u>, <u>LIU Ling Sum</u>, #<u>LI Pan</u>, <u>LAU Cia Hin</u>, #<u>LEUNG Hoi Man</u>, <u>CHIN Rebecca Y M</u>, <u>TIN Chung</u>, <u>LO Pik Kwan Peggy</u>, "Cellular uptake, tissue penetration, biodistribution, and biosafety of threose nucleic acids: Assessing in vitro and in vivo delivery", <i>Materials Today Bio</i>, 15, 18 May 2022, doi: <a href="https://doi.org/10.1016/j.mtbio.2022.100299">https://doi.org/10.1016/j.mtbio.2022.100299</a>.</p>   |
|                     | <p>#<u>WANG Fei</u>, #<u>LI Pan</u>, <u>CHU Hoi Ching</u>, <u>LO Pik Kwan Peggy</u>, "Nucleic Acids and Their Analogues for Biomedical Applications", <i>Biosensors</i>, 12(2), 04 February 2022, doi: <a href="https://doi.org/10.3390/bios12020093">https://doi.org/10.3390/bios12020093</a>.</p>   |

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|                  | #WANG Fei, MEN Xiaojun, CHEN Haobin, MI Feixue, XU Mengze, MEN Xiaoxiao, YUAN Zhen, <u>LO Pik Kwan Peggy</u> , "Second near-infrared photoactivatable biocompatible polymer nanoparticles for effective <i>in vitro</i> and <i>in vivo</i> cancer theranostics", <i>Nanoscale</i> , 13(31), 21 July 2021, pp 13410-13420, doi: <a href="https://doi.org/10.1039/d1nr03156b">https://doi.org/10.1039/d1nr03156b</a> .   |
| <b>WANG Jing</b> | ZHOU Yingzhi, #WANG Jing, LUO Dongxiang, HU Dehua, MIN Yonggang, XUE Qifan, "Recent progress of halide perovskites for thermoelectric application", <i>Nano Energy</i> , 94, 14 January 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.106949">https://doi.org/10.1016/j.nanoen.2022.106949</a> .   |
|                  | HUANG Shumin, LI Peiyu, #WANG Jing, HUANG Chih-Ching, XUE Qifan, FU Nianqing, "Modification of SnO <sub>2</sub> electron transport Layer: Brilliant strategies to make perovskite solar cells stronger", <i>Chemical Engineering Journal</i> , 439, 08 March 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135687">https://doi.org/10.1016/j.cej.2022.135687</a> .  |
|                  | #WANG Jing, #WU Xin, #LIU Yizhe, XUE Qifan, YIP Hin Lap, JEN Alex, ZHU Zonglong, "Interface Engineering for All-Inorganic CsPbBr <sub>2</sub> Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%", <i>Energy Technology</i> , 9(11), 18 September 2021, doi: <a href="https://doi.org/10.1002/ente.202100562">https://doi.org/10.1002/ente.202100562</a> .  |
|                  | Ji Tianbai, NIU Tianqi, #WANG Jing, LU Rong, WEN Zhangchuan, LUO Dongxiang, HUANG Chih-Ching, MIN Yonggang, WANG Shun, LUPONOSOV Yuriy N., PAN Shuang, CHEN Yihuang, XUE Qifan, "Crystallization regulation of solution-processed two-dimensional perovskite solar cells", <i>Journal of Materials Chemistry A</i> , 10(26), 02 June 2022, pp 13625-13650, doi: <a href="https://doi.org/10.1039/d2ta02574d">https://doi.org/10.1039/d2ta02574d</a> .  |
| <b>WANG Juan</b> | #WANG Juan, #YU Jinli, SUN Mingzi, LIAO Lingwen, ZHANG Qinghua, #ZHAI Li, #ZHOU Xichen, #LI Lujiang, WANG Gang, MENG Fanqi, SHEN Dong, #LI Zijian, BAO Haibo, #WANG Yunhao, #ZHOU Jingwen, CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, LEE Chun Sing, FAN Zhanxi, "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i> , 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a> .  |
| <b>WANG Qi</b>   | #WANG Qi, RUAN Yuefei Phoebe, ZHAO Zhen, ZHANG Lu, HUA Xia, JIN Litao, CHEN Hao, WANG Yu, YAO Yiming, LAM Kwan Sing Paul, ZHU Lingyan, SUN Hongwen, "Per- and polyfluoroalkyl substances (PFAS) in the Three-North Shelter Forest in northern China: First survey on the effects of forests on the behavior of PFAS", <i>Journal of Hazardous Materials</i> , 427, 28 December 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.128157">https://doi.org/10.1016/j.jhazmat.2021.128157</a> .  |
|                  | #WANG Qi, RUAN Yuefei Phoebe, JIN Linjie, #LIN Huiju, YAN Meng, #GU Jiarui, #YUEN Nim Tung Calista, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, "Tissue-Specific Uptake, Depuration Kinetics, and Suspected Metabolites of Three Emerging Per- and Polyfluoroalkyl Substances (PFASs) in Marine Medaka", <i>Environmental Science and Technology</i> , 56(10), 19 April 2022, doi: <a href="https://doi.org/10.1021/acs.est.1c07643">https://doi.org/10.1021/acs.est.1c07643</a> .  |
| <b>WANG Quan</b> | #DENG Xiang, #LI Fengzhu, #WANG Quan, LIU Danjun, LIN Francis, SHEN Dong, LEI Dangyuan, PENG Yung-kang, ZHU Zonglong, JEN Alex, "Highly efficient and stable perovskite solar cells enabled by a fluoro-functionalized TiO <sub>2</sub> inorganic interlayer", <i>Matter</i> , 4(10), 06 September 2021, pp 3301-3312, doi: <a href="https://doi.org/10.1016/j.matt.2021.08.012">https://doi.org/10.1016/j.matt.2021.08.012</a> .  |
| <b>WANG Xixi</b> | GE Yiyao, #WANG Xixi, #HUANG Biao, HUANG Zhiqi, CHEN Bo, LING Chongyi, LIU Jiawei, LIU Guanghua, ZHANG Jie, WANG Gang, CHEN Ye, #LI Lujiang, LIAO Lingwen, WANG Lei, YUN Qinbai, LAI Zhuangchai, #LU Shiyao, #LUO Qinxin, WANG Jinlan, ZHENG Zijian, ZHANG Hua, "Seeded Synthesis of Unconventional 2H-Phase Pd Alloy Nanomaterials for Highly Efficient Oxygen Reduction", <i>Journal of the American Chemical Society</i> , 143(41), 06 October 2021, pp 17292-17299, doi: <a href="https://doi.org/10.1021/jacs.1c08973">https://doi.org/10.1021/jacs.1c08973</a> .   |
|                  | #WANG Yunhao, #ZHOU Jingwen, LIN Chao, CHEN Bo, GUAN Zhiqiang, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, GE Yiyao, YUN Qinbai, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, LEE Chun Sing, LIU Yijin, ZHANG Qianfan, FAN Zhanxi, "Decreasing the Overpotential of Aprotic Li-CO <sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i> , 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a> . |

## Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | <p>GE Yiyao, #WANG Xixi, CHEN Bo, HUANG Zhiqi, SHI Zhenyu, #HUANG Biao, LIU Jiawei, WANG Gang, CHEN Ye, #LI Lujiang, #LU Shiyao, #LUO Qinxin, YUN Qinbai, ZHANG Hua, "Preparation of <i>fcc</i>-2H-<i>fcc</i> Heterophase Pd@Ir Nanostructures for High-Performance Electrochemical Hydrogen Evolution", <i>Advanced Materials</i>, 34(4), 31 October 2021, doi: <a href="https://doi.org/10.1002/adma.202107399">https://doi.org/10.1002/adma.202107399</a>.</p> <p>#ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with <i>fcc</i>-2H-<i>fcc</i> Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i>, 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a>.</p>  |
| <b>WANG Yan</b>     | <p>YU Han, #WANG Yan, KIM Ha Kyung, #WU Xin, LI Yuhao, YAO Zefan, PAN Mingao, ZOU Xinhui, ZHANG Jianquan, CHEN Shangshang, ZHAO Dahui, HUANG Fei, LU Xinhui, ZHU Zonglong, YAN He, "A Vinylene-Linker-Based Polymer Acceptor Featuring a Coplanar and Rigid Molecular Conformation Enables High-Performance All-Polymer Solar Cells with Over 17% Efficiency", <i>Advanced Materials</i>, 22 March 2022, doi: <a href="https://doi.org/10.1002/adma.202200361">https://doi.org/10.1002/adma.202200361</a>.</p>   |
| <b>WANG Yunhao</b>  | <p>#WANG Juan, #YU Jinli, SUN Mingzi, LIAO Lingwen, ZHANG Qinghua, #ZHAI Li, #ZHOU Xichen, #LI Lujiang, WANG Gang, MENG Fanqi, SHEN Dong, #LI Zijian, BAO Haibo, #WANG Yunhao, #ZHOU Jingwen, CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, LEE Chun Sing, FAN Zhanxi, "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i>, 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a>.</p> <p>#WANG Yunhao, #ZHOU Jingwen, LIN Chao, CHEN Bo, GUAN Zhiqiang, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, GE Yiyao, YUN Qinbai, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, LEE Chun Sing, LIU Yijin, ZHANG Qianfan, FAN Zhanxi, "Decreasing the Overpotential of Aprotic Li-CO<sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i>, 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a>.</p> <p>#XIONG Yuecheng, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #WANG Yunhao, FAN Zhanxi, "Electrochemical lithium extraction from aqueous sources", <i>Matter</i>, 5(6), 01 June 2022, pp 1760-1791, doi: <a href="https://doi.org/10.1016/j.matt.2022.04.034">https://doi.org/10.1016/j.matt.2022.04.034</a>.</p> <p>#MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver-Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p> |
| <b>WEI Xingxing</b> | <p>#WEI Xingxing, WANG Wei-Guang, MATSUDA Yudai, "Branching and converging pathways in fungal natural product biosynthesis", <i>Fungal Biology and Biotechnology</i>, 9, 07 March 2022, doi: <a href="https://doi.org/10.1186/s40694-022-00135-w">https://doi.org/10.1186/s40694-022-00135-w</a>.</p> <p>#WEI Xingxing, MATSUYAMA Taro, SATO Hajime, #YAN Dexiu, #CHAN Pui Man, MIYAMOTO Kazunori, UCHIYAMA Masanobu, MATSUDA Yudai, "Molecular and Computational Bases for Spirofuranone Formation in Setosusin Biosynthesis", <i>Journal of the American Chemical Society</i>, 143(42), 13 October 2021, pp 17708-17715, doi: <a href="https://doi.org/10.1021/jacs.1c08336">https://doi.org/10.1021/jacs.1c08336</a>.</p>   |
| <b>WU Haikun</b>    | <p>TIAN Jiahong, FAN Runhua, ZHANG Zheng, #LI Yang, #WU Haikun, YANG Pengtao, XIE Peitao, DUAN Wenxin, LEE Chun Sing, "Flexible and biocompatible poly (vinyl alcohol)/multi-walled carbon nanotubes hydrogels with epsilon-near-zero properties", <i>Journal of Materials Science and Technology</i>, 131, 08 June 2022, pp 91-99, doi: <a href="https://doi.org/10.1016/j.jmst.2022.05.019">https://doi.org/10.1016/j.jmst.2022.05.019</a>.</p>  |

Section A: Publications of PhD Students

|        |  |
|--------|--|
|        | <p>WANG Zongxiang, SUN Kai, #WU Haikun, QU Yunpeng, TIAN Jiahong, JU Licheng, FAN Runhua, "Epsilon-near-zero response derived from collective oscillation in the metacomposites with ultralow plasma frequency", <i>Composites Science and Technology</i>, 227, 21 June 2022, doi: <a href="https://doi.org/10.1016/j.compscitech.2022.109600">https://doi.org/10.1016/j.compscitech.2022.109600</a>.</p>  |
|        | <p>#WU Haikun, SUN Haowei, HAN Fengjin, XIE Peitao, ZHONG Yiming, QUAN Bin, ZHAO Yaman, LIU Chunzhao, FAN Runhua, GUO Zhanhu, "Negative Permittivity Behavior in Flexible Carbon Nanofibers-Polydimethylsiloxane Films", <i>Engineered Science</i>, 17, 22 November 2021, pp 113-120, doi: <a href="https://doi.org/10.30919/es8d576">https://doi.org/10.30919/es8d576</a>.</p>  |
|        | <p>ZHANG Zheng, LIU Mingxiang, IBRAHIM Mohamed M., #WU Haikun, #WU Yan, #LI Yang, MERSAL Gaber A. M., EL AZAB Islam H., EL-BAHY Salah M., HUANG Mina, JIANG Yunxiao, LIANG Gemeng, XIE Peitao, LIU Chunzhao, "Flexible polystyrene/graphene composites with epsilon-near-zero properties", <i>Advanced Composites and Hybrid Materials</i>, 5(2), 25 May 2022, pp 1054–1066, doi: <a href="https://doi.org/10.1007/s42114-022-00486-3">https://doi.org/10.1007/s42114-022-00486-3</a>.</p>                     |
|        | <p>SUN Kai, DUAN Wenxin, LEI Yanhua, WANG Zongxiang, TIAN Jiahong, YANG Pengtao, HE Qifa, CHEN Min, #WU Haikun, ZHANG Zheng, FAN Runhua, "Flexible multi-walled carbon nanotubes/polyvinylidene fluoride membranous composites with weakly negative permittivity and low frequency dispersion", <i>Composites Part A: Applied Science and Manufacturing</i>, 156, May 2022, doi: <a href="https://doi.org/10.1016/j.compositesa.2022.106854">https://doi.org/10.1016/j.compositesa.2022.106854</a>.</p>        |
| WU Xin | <p>FAN Baobing, LIN Francis, #WU Xin, ZHU Zonglong, JEN Alex, "Selenium-Containing Organic Photovoltaic Materials", <i>Accounts of Chemical Research</i>, 54(20), 04 October 2021, pp 3906-3916, doi: <a href="https://doi.org/10.1021/acs.accounts.1c00443">https://doi.org/10.1021/acs.accounts.1c00443</a>.</p>   |
|        | <p>#WANG Deng, GUO Hongling, #WU Xin, #DENG Xiang, #LI Fengzhu, #LI Zhen, LIN Francis, ZHU Zonglong, ZHANG Yi, XU Baomin, JEN Alex, "Interfacial Engineering of Wide-Bandgap Perovskites for Efficient Perovskite/CZTSSe Tandem Solar Cells", <i>Advanced Functional Materials</i>, 32(2), 04 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202107359">https://doi.org/10.1002/adfm.202107359</a>.</p>  |
|        | <p>YU Han, #WANG Yan, KIM Ha Kyung, #WU Xin, LI Yuhao, YAO Zefan, PAN Mingao, ZOU Xinhui, ZHANG Jianquan, CHEN Shangshang, ZHAO Dahui, HUANG Fei, LU Xinhui, ZHU Zonglong, YAN He, "A Vinylene-Linker-Based Polymer Acceptor Featuring a Coplanar and Rigid Molecular Conformation Enables High-Performance All-Polymer Solar Cells with Over 17% Efficiency", <i>Advanced Materials</i>, 22 March 2022, doi: <a href="https://doi.org/10.1002/adma.202200361">https://doi.org/10.1002/adma.202200361</a>.</p> |
|        | <p>#LI Zhen, LI Bo, #WU Xin, SHEPPARD Stephanie A., ZHANG Shoufeng, #GAO Danpeng, LONG Nicholas J., ZHU Zonglong, "Organometallic-functionalized interfaces for highly efficient inverted perovskite solar cells", <i>Science</i>, 376(6591), 21 April 2022, pp 416–420, doi: <a href="https://doi.org/10.1126/science.abm8566">https://doi.org/10.1126/science.abm8566</a>.</p>   |
|        | <p>#LI Zhen, #WU Xin, WU Shengfan, #GAO Danpeng, DONG Hua, HUANG Fuzhi, HU Xiaotian, JEN Alex, ZHU Zonglong, "An effective and economical encapsulation method for trapping lead leakage in rigid and flexible perovskite photovoltaics", <i>Nano Energy</i>, 93, 18 December 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106853">https://doi.org/10.1016/j.nanoen.2021.106853</a>.</p>  |
|        | <p>#LI Zhen, #WU Xin, #LI Bo, ZHANG Shoufeng, #GAO Danpeng, #LIU Yizhe, #LI Xintong, ZHANG Ningbin, HU Xiaotian, ZHI Chunyi, JEN Alex, ZHU Zonglong, "Sulfonated Graphene Aerogels Enable Safe-to-Use Flexible Perovskite Solar Modules", <i>Advanced Energy Materials</i>, 12(5), 22 December 2021, doi: <a href="https://doi.org/10.1002/aenm.202103236">https://doi.org/10.1002/aenm.202103236</a>.</p>   |
|        | <p>#WU Xin, LI Bo, ZHU Zonglong, CHUEH Chu-Chen, JEN Alex, "Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells", <i>Chemical Society Reviews</i>, 50(23), 22 October 2021, pp 13090-13128, doi: <a href="https://doi.org/10.1039/d1cs00841b">https://doi.org/10.1039/d1cs00841b</a>.</p>   |
|        | <p>#WANG Jing, #WU Xin, #LIU Yizhe, XUE Qifan, YIP Hin Lap, JEN Alex, ZHU Zonglong, "Interface Engineering for All-Inorganic CsPbI<sub>2</sub>Br<sub>2</sub> Perovskite Solar Cells with Enhanced Power Conversion Efficiency over 11%", <i>Energy Technology</i>, 9(11), 18 September 2021, doi: <a href="https://doi.org/10.1002/ente.202100562">https://doi.org/10.1002/ente.202100562</a>.</p>   |
|        | <p>LI Bo, #WU Xin, ZHANG Shoufeng, #LI Zhen, #GAO Danpeng, CHEN Xiankai, XIAO Shuang, CHUEH Chu-Chen, JEN Alex, ZHU Zonglong, "Efficient and stable Cs<sub>2</sub>AgBiBr<sub>6</sub> double</p>  |

Section A: Publications of PhD Students

|               |  |
|---------------|--|
|               | perovskite solar cells through in-situ surface modulation", <i>Chemical Engineering Journal</i> , 446(3), 23 May 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137144">https://doi.org/10.1016/j.cej.2022.137144</a> .  |
|               | <u>WU Shengfan</u> , # <u>LI Zhen</u> , ZHANG Jie, # <u>WU Xin</u> , # <u>DENG Xiang</u> , # <u>LIU Yiming</u> , # <u>ZHOU Jingkun</u> , <u>ZHI Chunyi</u> , <u>YU Xinge</u> , CHOY Wallace C.H., <u>ZHU Zonglong</u> , <u>JEN Alex</u> , "Low-Bandgap Organic Bulk-Heterojunction Enabled Efficient and Flexible Perovskite Solar Cells", <i>Advanced Materials</i> , 33(51), 03 October 2021, doi: <a href="https://doi.org/10.1002/adma.202105539">https://doi.org/10.1002/adma.202105539</a> .               |
| <b>WU Yan</b> | <u>TONG Zhongqiu</u> , <u>WANG Hui</u> , # <u>KANG Tianxing</u> , # <u>WU Yan</u> , <u>GUAN Zhiqiang</u> , ZHANG Fan, TANG Yongbing, <u>LEE Chun Sing</u> , "Ionic covalent organic frameworks with tailored anionic redox chemistry and selective ion transport for high-performance Na-ion cathodes", <i>Journal of Energy Chemistry</i> , 03 June 2022, doi: <a href="https://doi.org/10.1016/j.jechem.2022.05.044">https://doi.org/10.1016/j.jechem.2022.05.044</a> .  |
|               | LI Tao, # <u>WU Yan</u> , "Impact Dynamics of Nanodroplets on V-Shaped Substrates: Asymmetrical Behavior and Fast-Rebound Dynamics", <i>Langmuir</i> , 37(44), 26 October 2021, pp 13170-13178, doi: <a href="https://doi.org/10.1021/acs.langmuir.1c02488">https://doi.org/10.1021/acs.langmuir.1c02488</a> .   |
|               | # <u>WU Yan</u> , # <u>SONG Tianyi</u> , CHEN Li-Na, "A review on recent developments of vanadium-based cathode for rechargeable zinc-ion batteries", <i>Tungsten</i> , 3(3), 01 July 2021, pp 289-304, doi: <a href="https://doi.org/10.1007/s42864-021-00091-9">https://doi.org/10.1007/s42864-021-00091-9</a> .   |
|               | ZHANG Zheng, LIU Mingxiang, IBRAHIM Mohamed M., # <u>WU Haikun</u> , # <u>WU Yan</u> , # <u>LI Yang</u> , MERSAL Gaber A. M., EL AZAB Islam H., EL-BAHY Salah M., HUANG Mina, JIANG Yunxiao, LIANG Gemeng, XIE Peitao, LIU Chunzhao, "Flexible polystyrene/graphene composites with epsilon-near-zero properties", <i>Advanced Composites and Hybrid Materials</i> , 5(2), 25 May 2022, pp 1054–1066, doi: <a href="https://doi.org/10.1007/s42114-022-00486-3">https://doi.org/10.1007/s42114-022-00486-3</a> . |
|               | <u>LIU Shihao</u> , ZANG Chunxiu, ZHANG Jiaming, # <u>TIAN Shuang</u> , # <u>WU Yan</u> , <u>SHEN Dong</u> , ZHANG Letian, XIE Wenfa, <u>LEE Chun Sing</u> , "Air-Stable Ultrabright Inverted Organic Light-Emitting Devices with Metal Ion-Chelated Polymer Injection Layer", <i>Nano-Micro Letters</i> , 14(1), 06 December 2021, doi: <a href="https://doi.org/10.1007/s40820-021-00745-w">https://doi.org/10.1007/s40820-021-00745-w</a> .   |
|               | <u>TONG Zhongqiu</u> , LIAN Ruqian, # <u>YANG Rui</u> , # <u>KANG Tianxing</u> , FENG Jianrui, <u>SHEN Dong</u> , # <u>WU Yan</u> , <u>CUI Xiao</u> , <u>WANG Hui</u> , TANG Yongbing, <u>LEE Chun Sing</u> , "An aqueous aluminum-ion electrochromic full battery with water-in-salt electrolyte for high-energy density", <i>Energy Storage Materials</i> , 44, 03 November 2021, pp 497-507, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.001">https://doi.org/10.1016/j.ensm.2021.11.001</a> .       |
|               | <u>TONG Zhongqiu</u> , # <u>KANG Tianxing</u> , # <u>WU Yan</u> , ZHANG Fan, TANG Yongbing, <u>LEE Chun Sing</u> , "Novel metastable Bi:Co and Bi:Fe alloys nanodots@carbon as anodes for high rate K-ion batteries", <i>Nano Research</i> , 20 May 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4398-z">https://doi.org/10.1007/s12274-022-4398-z</a> .   |
|               | <u>TONG Zhongqiu</u> , # <u>KANG Tianxing</u> , # <u>WAN Yingpeng</u> , # <u>YANG Rui</u> , # <u>WU Yan</u> , <u>SHEN Dong</u> , <u>LIU Shihao</u> , TANG Yongbing, <u>LEE Chun Sing</u> , "A Ca-Ion Electrochromic Battery via a Water-in-Salt Electrolyte", <i>Advanced Functional Materials</i> , 31(41), 14 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104639">https://doi.org/10.1002/adfm.202104639</a> .  |
|               | # <u>ZHU Zhaohua</u> , # <u>WU Yan</u> , # <u>LI Yang</u> , # <u>ZENG Zixin</u> , <u>TSANG Sai Wing</u> , <u>GUAN Zhiqiang</u> , <u>LEE Chun Sing</u> , "Enhancing the Performance of Perovskite Light-Emitting Diodes by Humidity Treatment", <i>ACS Applied Materials and Interfaces</i> , 14(17), 21 April 2022, pp 19774–19784, doi: <a href="https://doi.org/10.1021/acsami.1c24561">https://doi.org/10.1021/acsami.1c24561</a> .   |
|               | <u>WANG Hui</u> , # <u>WU Yan</u> , WANG Ye, XU Tingting, KONG Dezhi, JIANG Yang, WU Di, TANG Yongbing, LI Xinjian, <u>LEE Chun Sing</u> , "Fabricating Na/In/C Composite Anode with Natrophilic Na–In Alloy Enables Superior Na Ion Deposition in the EC/PC Electrolyte", <i>Nano-Micro Letters</i> , 14(1), 09 December 2021, doi: <a href="https://doi.org/10.1007/s40820-021-00756-7">https://doi.org/10.1007/s40820-021-00756-7</a> .   |
|               | # <u>WU Yan</u> , # <u>ZHU Zhaohua</u> , <u>SHEN Dong</u> , CHEN Lina, # <u>SONG Tianyi</u> , # <u>KANG Tianxing</u> , <u>TONG Zhongqiu</u> , TANG Yongbing, <u>WANG Hui</u> , <u>LEE Chun Sing</u> , "Electrolyte engineering enables stable Zn-Ion deposition for long-cycling life aqueous Zn-ion batteries", <i>Energy Storage Materials</i> , 45, 04 November 2021, pp 1084-1091, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.003">https://doi.org/10.1016/j.ensm.2021.11.003</a> .                |



## Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
| <b>WU Zhiying</b>     | MA Qinglang, #WU Zhiying, #NEACSV Vlad-Andrei, #ZHAO Sai, CHAI Yu, ZHANG Hua, "Recycling plastic waste into multifunctional superhydrophobic textiles", <i>Nano Research</i> , 19 March 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4249-y">https://doi.org/10.1007/s12274-022-4249-y</a> .   |
| <b>XIAO Yafang</b>    | CHEN Jia-Xiong, WANG Hui, #XIAO Yafang, WANG Kai, ZHENG Ming-Hui, CHEN Wen-Cheng, ZHOU Lu, HU Dehua, HUO Yanping, LEE Chun Sing, ZHANG Xiao Hong, "Optimizing Intermolecular Interactions and Energy Level Alignments of Red TADF Emitters for High-Performance Organic Light-Emitting Diodes", <i>Small</i> , 18(21), 01 May 2022, doi: <a href="https://doi.org/10.1002/smll.202201548">https://doi.org/10.1002/smll.202201548</a> .   |
|                       | #XIAO Yafang, CHEN Wencheng, CHEN Jiexiong, LU Guihong, #TIAN Shuang, CUI Xiao, ZHANG Zhen, #CHEN Huan, #WAN Yingpeng, LI Shengliang, LEE Chun Sing, "Amplifying Free Radical Generation of AIE Photosensitizer with Small Singlet-Triplet Splitting for Hypoxia-Overcoming Photodynamic Therapy", <i>ACS Applied Materials and Interfaces</i> , 14(4), 20 January 2022, pp 5112–5121, doi: <a href="https://doi.org/10.1021/acsami.1c23797">https://doi.org/10.1021/acsami.1c23797</a> .  |
|                       | #HUANG Zhongming, #WAN Yingpeng, #LIANG Jianli, #XIAO Yafang, #LI Xiaozhen, CUI Xiao, #TIAN Shuang, #ZHAO Qi, LI Shengliang, LEE Chun Sing, "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier", <i>ACS Applied Materials &amp; Interfaces</i> , 13(27), 05 July 2021, pp 31624–31634, doi: <a href="https://doi.org/10.1021/acsami.1c06000">https://doi.org/10.1021/acsami.1c06000</a> .   |
|                       | CHEN Jiexiong, WANG Hui, ZHANG Xiang, #XIAO Yafang, WANG Kai, ZHOU Lu, SHI Yi-Zhong, YU Jia, LEE Chun Sing, ZHANG Xiao Hong, "Using fullerene fragments as acceptors to construct thermally activated delayed fluorescence emitters for high-efficiency organic light-emitting diodes", <i>Chemical Engineering Journal</i> , 435(Part 1), 17 January 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.134731">https://doi.org/10.1016/j.cej.2022.134731</a> .   |
| <b>XIN Yinger</b>     | CHENG Sum Yin, #MA Tengrui, #XU Xiaohui, #DU Peng, HU Jieying, #XIN Yinger, #AHN Dohyun, HE Jun, XU Zhengtao, "A Ferrocene Metal-Organic Framework Solid for Fe-Loaded Carbon Matrices and Nanotubes: High-Yield Synthesis and Oxygen Reduction Electrocatalysis", <i>Inorganic Chemistry</i> , 60(22), 04 November 2021, pp 17315–17324, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c02696">https://doi.org/10.1021/acs.inorgchem.1c02696</a> .   |
| <b>XIONG Tengfei</b>  | YANG Peng, #ZHA Jijia, GAO Guoyun, ZHENG Long, #HUANG Haoxin, #XIA Yunpeng, XU Songcen, #XIONG Tengfei, #ZHANG Zhuomin, YANG Zhengbao, CHEN Ye, KI Dong-Keun, LIOU Jun J., LIAO Wugang, TAN Chaoliang, "Growth of Tellurium Nanobelts on h-BN for p-type Transistors with Ultrahigh Hole Mobility", <i>Nano-Micro Letters</i> , 14(1), 19 April 2022, doi: <a href="https://doi.org/10.1007/s40820-022-00852-2">https://doi.org/10.1007/s40820-022-00852-2</a> .   |
|                       | #ZHAI Wei, #XIONG Tengfei, #HE Zhen, #LU Shiyao, LAI Zhuangchai, HE Qiyuan, TAN Chaoliang, ZHANG Hua, "Nanodots Derived from Layered Materials: Synthesis and Applications", <i>Advanced Materials</i> , 33(46), 01 July 2021, doi: <a href="https://doi.org/10.1002/adma.202006661">https://doi.org/10.1002/adma.202006661</a> .  |
| <b>XIONG Yuecheng</b> | #XIONG Yuecheng, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #WANG Yunhao, FAN Zhanxi, "Electrochemical lithium extraction from aqueous sources", <i>Matter</i> , 5(6), 01 June 2022, pp 1760-1791, doi: <a href="https://doi.org/10.1016/j.matt.2022.04.034">https://doi.org/10.1016/j.matt.2022.04.034</a> .   |
|                       | #WANG Yunhao, #ZHOU Jingwen, LIN Chao, CHEN Bo, GUAN Zhiqiang, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, GE Yiyao, YUN Qinbai, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, LEE Chun Sing, LIU Yijin, ZHANG Qianfan, FAN Zhanxi, "Decreasing the Overpotential of Aprotic Li-CO <sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i> , 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a> . |
|                       | SHEN Xiaojie, LI Liqing, #XIONG Yuecheng, YU Fei, MA Jie, "Graphene-assisted Ti <sub>3</sub> C <sub>2</sub> MXene-derived ultrathin sodium titanate for capacitive deionization with excellent rate performance and long cycling stability", <i>Journal of Materials Chemistry A</i> , 10(18), 01 April 2022, pp 10192-10200, doi: <a href="https://doi.org/10.1039/d2ta00449f">https://doi.org/10.1039/d2ta00449f</a> .   |
|                       | LEI Jingjing, #XIONG Yuecheng, YU Fei, MA Jie, "Flexible self-supporting CoFe-LDH/MXene film as a chloride ions storage electrode in capacitive deionization", <i>Chemical Engineering Journal</i> , 437, 23 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135381">https://doi.org/10.1016/j.cej.2022.135381</a> .   |

## Section A: Publications of PhD Students

|                    |  |
|--------------------|--|
| <b>XU Guangxi</b>  | # <u>XU Guangxi</u> , # <u>MAK Chiu Lam Eunice</u> , <u>LO Kam Wing Kenneth</u> , "Photofunctional transition metal complexes as cellular probes, bioimaging reagents and phototherapeutics", <i>Inorganic Chemistry Frontiers</i> , 8(20), 03 September 2021, pp 4553-4579, doi: <a href="https://doi.org/10.1039/d1qi00931a">https://doi.org/10.1039/d1qi00931a</a> .  |
|                    | # <u>ZHU Jinghui</u> , # <u>XU Guangxi</u> , # <u>SHUM Justin</u> , <u>LEE Cho Cheung</u> , <u>LO Kam Wing Kenneth</u> , "Tuning the organelle specificity and cytotoxicity of iridium(III) photosensitisers for enhanced phototheranostic applications", <i>Chemical Communications</i> , 57(90), 05 October 2021, pp 12008-12011, doi: <a href="https://doi.org/10.1039/d1cc04982h">https://doi.org/10.1039/d1cc04982h</a> .   |
|                    | <u>CARROD Andrew J.</u> , <u>GRAGLIA Francesco</u> , <u>MALE Louise</u> , <u>LE DUFF Cécile</u> , <u>SIMPSON Peter</u> , <u>ELSHERIF Mohamed</u> , <u>AHMED Zubair</u> , <u>BUTT Haider</u> , # <u>XU Guangxi</u> , <u>LO Kam Wing Kenneth</u> , <u>BERTONCELLO Paolo</u> , <u>PIKRAMENOU Zoe</u> , "Photo- and Electrochemical Dual-Responsive Iridium Probe for Saccharide Detection", <i>Chemistry - A European Journal</i> , 28(4), 22 November 2021, doi: <a href="https://doi.org/10.1002/chem.202103541">https://doi.org/10.1002/chem.202103541</a> . |
| <b>XU Shaopeng</b> | # <u>CAO Yaru</u> , # <u>XU Shaopeng</u> , <u>ZHANG Kai</u> , # <u>LIN Huiju</u> , <u>WU Rongben</u> , # <u>LAO Jiayong</u> , # <u>TAO Danyang</u> , <u>LIU Mengyang</u> , <u>LEUNG Mei Yee Kenneth</u> , <u>LAM Kwan Sing Paul</u> , "Spatiotemporal occurrence of phthalate esters in stormwater drains of Hong Kong, China: Mass loading and source identification", <i>Environmental Pollution</i> , 308, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.119683">https://doi.org/10.1016/j.envpol.2022.119683</a> .                   |
|                    | # <u>XU Shaopeng</u> , <u>CHEN Luoluo</u> , <u>ZHANG Kai</u> , # <u>CAO Yaru</u> , <u>MA Yue</u> , <u>CHAU Hoi Shan</u> , # <u>TAO Danyang</u> , <u>WU Chenxi</u> , <u>LI Chengtao</u> , <u>LAM Kwan Sing Paul</u> , "Microplastic occurrence in the northern South China Sea, A case for Pre and Post cyclone analysis", <i>Chemosphere</i> , 296, 14 February 2022, doi: <a href="https://doi.org/10.1016/j.chemosphere.2022.133980">https://doi.org/10.1016/j.chemosphere.2022.133980</a> .   |
|                    | # <u>CAO Yaru</u> , # <u>LIN Huiju</u> , <u>ZHANG Kai</u> , # <u>XU Shaopeng</u> , <u>YAN Meng</u> , <u>LEUNG Mei Yee Kenneth</u> , <u>LAM Kwan Sing Paul</u> , "Microplastics: A major source of phthalate esters in aquatic environments", <i>Journal of Hazardous Materials</i> , 432, 17 March 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128731">https://doi.org/10.1016/j.jhazmat.2022.128731</a> .  |
|                    | # <u>TAO Danyang</u> , <u>ZHANG Kai</u> , # <u>XU Shaopeng</u> , # <u>LIN Huiju</u> , <u>LIU Yuan</u> , <u>KANG Jingliang</u> , <u>YIM Tszewai</u> , <u>GIESY John Paul</u> , <u>LEUNG Mei Yee Kenneth</u> , "Microfibers Released into the Air from a Household Tumble Dryer", <i>Environmental Science and Technology Letters</i> , 9(2), 12 January 2022, pp 120-126, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00911">https://doi.org/10.1021/acs.estlett.1c00911</a> .  |
| <b>XU Xiaoyu</b>   | # <u>XU Xiaoyu</u> , <u>FANG Kar Hei</u> , <u>WONG Chun Yuen Alex</u> , <u>CHEUNG Siu Gin</u> , "The significance of trophic transfer in the uptake of microplastics by carnivorous gastropod <i>Reishia clavigera</i> ", <i>Environmental Pollution</i> , 298, 18 January 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.118862">https://doi.org/10.1016/j.envpol.2022.118862</a> .  |
| <b>YAN Dexiu</b>   | # <u>WEI Xingxing</u> , <u>MATSUYAMA Taro</u> , <u>SATO Hajime</u> , # <u>YAN Dexiu</u> , # <u>CHAN Pui Man</u> , <u>MIYAMOTO Kazunori</u> , <u>UCHIYAMA Masanobu</u> , <u>MATSUDA Yudai</u> , "Molecular and Computational Bases for Spirofurane Formation in Setosusin Biosynthesis", <i>Journal of the American Chemical Society</i> , 143(42), 13 October 2021, pp 17708–17715, doi: <a href="https://doi.org/10.1021/jacs.1c08336">https://doi.org/10.1021/jacs.1c08336</a> .   |
| <b>YANG Rui</b>    | # <u>YANG Rui</u> , <u>YAO Wenjiao</u> , <u>TANG Bin</u> , <u>ZHANG Fan</u> , <u>LEI Xin</u> , <u>LEE Chun Sing</u> , <u>TANG Yongbing</u> , "Development and challenges of electrode materials for rechargeable Mg batteries", <i>Energy Storage Materials</i> , 42, 15 August 2021, pp 687-704, doi: <a href="https://doi.org/10.1016/j.ensm.2021.08.019">https://doi.org/10.1016/j.ensm.2021.08.019</a> .   |
|                    | <u>TONG Zhongqiu</u> , <u>LIAN Ruqian</u> , # <u>YANG Rui</u> , # <u>KANG Tianxing</u> , <u>FENG Jianrui</u> , <u>SHEN Dong</u> , # <u>WU Yan</u> , <u>CUI Xiao</u> , <u>WANG Hui</u> , <u>TANG Yongbing</u> , <u>LEE Chun Sing</u> , "An aqueous aluminum-ion electrochromic full battery with water-in-salt electrolyte for high-energy density", <i>Energy Storage Materials</i> , 44, 03 November 2021, pp 497-507, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.001">https://doi.org/10.1016/j.ensm.2021.11.001</a> .                           |
|                    | <u>TONG Zhongqiu</u> , # <u>KANG Tianxing</u> , # <u>WAN Yingpeng</u> , # <u>YANG Rui</u> , # <u>WU Yan</u> , <u>SHEN Dong</u> , <u>LIU Shihao</u> , <u>TANG Yongbing</u> , <u>LEE Chun Sing</u> , "A Ca-Ion Electrochromic Battery via a Water-in-Salt Electrolyte", <i>Advanced Functional Materials</i> , 31(41), 14 July 2021, doi: <a href="https://doi.org/10.1002/adfm.202104639">https://doi.org/10.1002/adfm.202104639</a> .  |
| <b>YANG Zhe</b>    | <u>XU Qi</u> , <u>LI Qiuting</u> , # <u>YANG Zhe</u> , <u>HUANG Piao</u> , <u>HU Han</u> , <u>MO Zhimin</u> , <u>QIN Zizhen</u> , <u>XU Zushun</u> , <u>CHEN Tianyou</u> , <u>YANG Shengli</u> , "Lenvatinib and Cu <sub>2-x</sub> S nanocrystals co-encapsulated in poly(D,L-lactide-co-glycolide) for synergistic chemo-photothermal therapy against   |

## Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
|                       | advanced hepatocellular carcinoma", <i>Journal of Materials Chemistry B</i> , 9(48), 15 November 2021, pp 9908-9922, doi: <a href="https://doi.org/10.1039/d1tb01808f">https://doi.org/10.1039/d1tb01808f</a> .   |
|                       | # <a href="#">YANG Zhe</a> , # <a href="#">ZHANG Li</a> , <a href="#">WEI Jielin</a> , <a href="#">LI Ruiqi</a> , <a href="#">XU Qi</a> , <a href="#">HU Han</a> , <a href="#">XU Zushun</a> , <a href="#">REN Jinghua</a> , <a href="#">WONG Chun Yuen Alex</a> , "Tumor acidity-activatable photothermal/Fenton nanoagent for synergistic therapy", <i>Journal of Colloid and Interface Science</i> , 612, 25 December 2021, pp 355-366, doi: <a href="https://doi.org/10.1016/j.jcis.2021.12.134">https://doi.org/10.1016/j.jcis.2021.12.134</a> .   |
|                       | # <a href="#">ZHANG Li</a> , <a href="#">FAN Yadi</a> , # <a href="#">YANG Zhe</a> , <a href="#">YANG Mo</a> , <a href="#">WONG Chun Yuen Alex</a> , "NIR-II-driven and glutathione depletion-enhanced hypoxia-irrelevant free radical nanogenerator for combined cancer therapy", <i>Journal of Nanobiotechnology</i> , 19, 06 September 2021, doi: <a href="https://doi.org/10.1186/s12951-021-01003-2">https://doi.org/10.1186/s12951-021-01003-2</a> .  |
|                       | # <a href="#">YEUNG Chi Fung</a> , <a href="#">TANG Sik Him</a> , # <a href="#">YANG Zhe</a> , <a href="#">LI Tsun-Yin</a> , <a href="#">LI Ka Kit</a> , <a href="#">CHAN Yuen Man Shirley</a> , # <a href="#">SHEK Hau Lam</a> , # <a href="#">IO Kai Wa</a> , <a href="#">TAM King-Ting</a> , <a href="#">YIU Shek Man Ken</a> , <a href="#">TSE Man Kit</a> , <a href="#">WONG Chun Yuen Alex</a> , "Ruthenafuran Complexes Supported by the Bipyridine-is(diphenylphosphino)methane Ligand Set: Synthesis and Cytotoxicity Studies", <i>Molecules</i> , 27(5), 05 March 2022, doi: <a href="https://doi.org/10.3390/molecules27051709">https://doi.org/10.3390/molecules27051709</a> .  |
| <b>YAO Houzong</b>    | # <a href="#">YAO Houzong</a> , <a href="#">GUNAWAN Yuliana Fransiska</a> , # <a href="#">LIU Gongyuan</a> , <a href="#">TSE Man Kit</a> , <a href="#">ZHU Guangyu</a> , "Optimization of axial ligands to promote the photoactivation of BODIPY-conjugated platinum(IV) anticancer prodrugs", <i>Dalton Transactions</i> , 50(39), 30 August 2021, pp 13737-13747, doi: <a href="https://doi.org/10.1039/d1dt02362d">https://doi.org/10.1039/d1dt02362d</a> .  |
|                       | # <a href="#">YAO Houzong</a> , <a href="#">WANG Zhigang</a> , <a href="#">WANG Na</a> , # <a href="#">DENG Zhiqin</a> , # <a href="#">LIU Gongyuan</a> , <a href="#">ZHOU Jianghong</a> , # <a href="#">CHEN Shu</a> , <a href="#">SHI Jiahai</a> , <a href="#">ZHU Guangyu</a> , "Enhancing Circulation and Tumor Accumulation of Carboplatin via an Erythrocyte-Anchored Prodrug Strategy", <i>Angewandte Chemie - International Edition</i> , 61(25), 30 March 2022, doi: <a href="https://doi.org/10.1002/anie.202203838">https://doi.org/10.1002/anie.202203838</a> .   |
|                       | # <a href="#">CHEN Shu</a> , <a href="#">NG Ka Yan</a> , # <a href="#">ZHOU Qiyuan</a> , # <a href="#">YAO Houzong</a> , # <a href="#">DENG Zhiqin</a> , <a href="#">TSE Man Kit</a> , <a href="#">ZHU Guangyu</a> , "The influence of different carbonate ligands on the hydrolytic stability and reduction of platinum(IV) prodrugs", <i>Dalton Transactions</i> , 51(3), 13 December 2021, doi: <a href="https://doi.org/10.1039/d1dt03959h">https://doi.org/10.1039/d1dt03959h</a> .  |
|                       | # <a href="#">YAO Houzong</a> , <a href="#">ZHU Guangyu</a> , "A platinum-based fluorescent "turn on" sensor to decipher the reduction of platinum(iv) prodrugs", <i>Dalton Transactions</i> , 51(14), 25 February 2022, pp 5394-5398, doi: <a href="https://doi.org/10.1039/d2dt00124a">https://doi.org/10.1039/d2dt00124a</a> .   |
| <b>YAO Yao</b>        | <a href="#">LAI Zhuangchai</a> , # <a href="#">YAO Yao</a> , # <a href="#">LI Siyuan</a> , <a href="#">MA Lu</a> , <a href="#">ZHANG Qinghua</a> , <a href="#">GE Yiyao</a> , # <a href="#">ZHAI Wei</a> , # <a href="#">CHI Banlan</a> , <a href="#">CHEN Bo</a> , # <a href="#">LI Lujiang</a> , <a href="#">WANG Lei</a> , <a href="#">ZHENG Zijian</a> , <a href="#">GU Lin</a> , <a href="#">DU Yonghua</a> , <a href="#">ZHANG Hua</a> , "Salt-Assisted 2H-to-1T' Phase Transformation of Transition Metal Dichalcogenides", <i>Advanced Materials</i> , 34(26), 18 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201194">https://doi.org/10.1002/adma.202201194</a> .  |
| <b>YEUNG Chi Fung</b> | # <a href="#">YEUNG Chi Fung</a> , # <a href="#">SHEK Hau Lam</a> , <a href="#">YIU Shek Man Ken</a> , <a href="#">TSE Man Kit</a> , <a href="#">WONG Chun Yuen Alex</a> , "Controlled Activation of Dipicolinyl-Substituted Propargylic Alcohol by Ru(II) and Os(II) for Unprecedented Indolizine-Fused Metallafuran Complexes", <i>Organometallics</i> , 40(15), 14 July 2021, pp 2458-2466, doi: <a href="https://doi.org/10.1021/acs.organomet.1c00197">https://doi.org/10.1021/acs.organomet.1c00197</a> .   |
|                       | # <a href="#">YEUNG Chi Fung</a> , <a href="#">TANG Sik Him</a> , # <a href="#">YANG Zhe</a> , <a href="#">LI Tsun-Yin</a> , <a href="#">LI Ka Kit</a> , <a href="#">CHAN Yuen Man Shirley</a> , # <a href="#">SHEK Hau Lam</a> , # <a href="#">IO Kai Wa</a> , <a href="#">TAM King-Ting</a> , <a href="#">YIU Shek Man Ken</a> , <a href="#">TSE Man Kit</a> , <a href="#">WONG Chun Yuen Alex</a> , "Ruthenafuran Complexes Supported by the Bipyridine-is(diphenylphosphino)methane Ligand Set: Synthesis and Cytotoxicity Studies", <i>Molecules</i> , 27(5), 05 March 2022, doi: <a href="https://doi.org/10.3390/molecules27051709">https://doi.org/10.3390/molecules27051709</a> .  |
| <b>YIN Jinwen</b>     | # <a href="#">XIONG Yuecheng</a> , # <a href="#">ZHOU Jingwen</a> , # <a href="#">LU Pengyi</a> , # <a href="#">YIN Jinwen</a> , # <a href="#">WANG Yunhao</a> , <a href="#">FAN Zhanxi</a> , "Electrochemical lithium extraction from aqueous sources", <i>Matter</i> , 5(6), 01 June 2022, pp 1760-1791, doi: <a href="https://doi.org/10.1016/j.matt.2022.04.034">https://doi.org/10.1016/j.matt.2022.04.034</a> .   |
|                       | # <a href="#">MA Yangbo</a> , # <a href="#">YU Jinli</a> , <a href="#">SUN Mingzi</a> , <a href="#">CHEN Bo</a> , # <a href="#">ZHOU Xichen</a> , <a href="#">YE Chenliang</a> , <a href="#">GUAN Zhiqiang</a> , # <a href="#">GUO Weihua</a> , <a href="#">WANG Gang</a> , # <a href="#">LU Shiyao</a> , <a href="#">XIA Dongsheng</a> , # <a href="#">WANG Yunhao</a> , # <a href="#">HE Zhen</a> , <a href="#">ZHENG Long</a> , <a href="#">YUN Qinbai</a> , # <a href="#">WANG Liqiang</a> , # <a href="#">ZHOU Jingwen</a> , # <a href="#">LU Pengyi</a> , # <a href="#">YIN Jinwen</a> , # <a href="#">ZHAO Yifei</a> , # <a href="#">LUO Zhongbin</a> , # <a href="#">ZHAI Li</a> , <a href="#">LIAO Lingwen</a> , <a href="#">ZHU Zonglong</a> , <a href="#">YE Ruquan</a> , <a href="#">CHEN Ye</a> , <a href="#">LU Yang</a> , <a href="#">XI Shibo</a> , <a href="#">HUANG Bolong</a> , <a href="#">LEE Chun Sing</a> , <a href="#">FAN Zhanxi</a> , "Confined Growth of Silver-Copper Janus Nanostructures with {100} Facets for Highly Selective |

Section A: Publications of PhD Students

|                              |   |
|------------------------------|---|
|                              | Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> .  |
| <b>YIN Xue</b>               | # <a href="#">YIN Xue</a> , YAO Dongbao, LAM Hon Wah Michael, LIANG Haojun, "A facile biosynthesis strategy of plasmid DNA-derived nanowires for readable microRNA logic operations", <i>Journal of Materials Chemistry B</i> , 10(16), 14 March 2022, pp 3055-3063, doi: <a href="https://doi.org/10.1039/d1tb02699b">https://doi.org/10.1039/d1tb02699b</a> .   |
| <b>YIP Man Hei</b>           | # <a href="#">YIP Man Hei</a> , <a href="#">LAI Kin Ho</a> , <a href="#">YIU Shek Man Ken</a> , <a href="#">LO Kam Wing Kenneth</a> , "Phosphorogenic Iridium(III) bis-Tetrazine Complexes for Bioorthogonal Peptide Stapling, Bioimaging, Photocytotoxic Applications, and the Construction of Nanosized Hydrogels", <i>Angewandte Chemie - International Edition</i> , 61(16), 04 February 2022, doi: <a href="https://doi.org/10.1002/anie.202116078">https://doi.org/10.1002/anie.202116078</a> .   |
| <b>YU Jinli</b>              | # <a href="#">WANG Juan</a> , # <a href="#">YU Jinli</a> , SUN Mingzi, <a href="#">LIAO Lingwen</a> , ZHANG Qinghua, # <a href="#">ZHAI Li</a> , # <a href="#">ZHOU Xichen</a> , # <a href="#">LI Lujiang</a> , WANG Gang, MENG Fanqi, <a href="#">SHEN Dong</a> , # <a href="#">LI Zijian</a> , BAO Haibo, # <a href="#">WANG Yunhao</a> , # <a href="#">ZHOU Jingwen</a> , CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, <a href="#">LEE Chun Sing</a> , <a href="#">FAN Zhanxi</a> , "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i> , 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a> .<br># <a href="#">MA Yangbo</a> , # <a href="#">YU Jinli</a> , SUN Mingzi, <a href="#">CHEN Bo</a> , # <a href="#">ZHOU Xichen</a> , YE Chenliang, <a href="#">GUAN Zhiqiang</a> , # <a href="#">GUO Weihua</a> , WANG Gang, # <a href="#">LU Shiyao</a> , XIA Dongsheng, # <a href="#">WANG Yunhao</a> , # <a href="#">HE Zhen</a> , ZHENG Long, YUN Qinbai, # <a href="#">WANG Liqiang</a> , # <a href="#">ZHOU Jingwen</a> , # <a href="#">LU Pengyi</a> , # <a href="#">YIN Jinwen</a> , # <a href="#">ZHAO Yifei</a> , # <a href="#">LUO Zhongbin</a> , # <a href="#">ZHAI Li</a> , <a href="#">LIAO Lingwen</a> , <a href="#">ZHU Zonglong</a> , YE Ruquan, CHEN Ye, <a href="#">LU Yang</a> , XI Shibo, HUANG Bolong, <a href="#">LEE Chun Sing</a> , <a href="#">FAN Zhanxi</a> , "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> . |
| <b>YUAN Bo</b>               | # <a href="#">YUAN Bo</a> , CHOU Hung-Lung, <a href="#">PENG Yung-kang</a> , "Disclosing the Origin of Transition Metal Oxides as Peroxidase (and Catalase) Mimetics", <i>ACS Applied Materials and Interfaces</i> , 14(20), 12 October 2021, pp 22728–22736, doi: <a href="https://doi.org/10.1021/acsami.1c13429">https://doi.org/10.1021/acsami.1c13429</a> .  |
| <b>YUEN Nim Tung Calista</b> | HONG Pei, ZHANG Kai, DAI Yue, # <a href="#">YUEN Nim Tung Calista</a> , GAO Yuxin, GU Yali, <a href="#">LEUNG Mei Yee Kenneth</a> , "Application of aerobic denitrifier for simultaneous removal of nitrogen, zinc, and bisphenol A from wastewater", <i>Bioresource Technology</i> , 354, 20 April 2022, doi: <a href="https://doi.org/10.1016/j.biortech.2022.127192">https://doi.org/10.1016/j.biortech.2022.127192</a> .<br># <a href="#">WANG Qi</a> , <a href="#">RUAN Yuefei Phoebe</a> , <a href="#">JIN Linjie</a> , # <a href="#">LIN Huiju</a> , <a href="#">YAN Meng</a> , # <a href="#">GU Jiarui</a> , # <a href="#">YUEN Nim Tung Calista</a> , <a href="#">LEUNG Mei Yee Kenneth</a> , LAM Kwan Sing Paul, "Tissue-Specific Uptake, Depuration Kinetics, and Suspected Metabolites of Three Emerging Per- and Polyfluoroalkyl Substances (PFASs) in Marine Medaka", <i>Environmental Science and Technology</i> , 56(10), 19 April 2022, doi: <a href="https://doi.org/10.1021/acs.est.1c07643">https://doi.org/10.1021/acs.est.1c07643</a> .<br>SHU Yilin, JIANG Huiling, # <a href="#">YUEN Nim Tung Calista</a> , WANG Wenchao, HE Jun, ZHANG Huijuan, LIU Guangxuan, WEI Luting, CHEN Lianguo, WU Hailong, "Microcystin-leucine arginine induces skin barrier damage and reduces resistance to pathogenic bacteria in <i>Lithobates catesbeianus</i> tadpoles", <i>Ecotoxicology and Environmental Safety</i> , 238, 02 May 2022, doi: <a href="https://doi.org/10.1016/j.ecoenv.2022.113584">https://doi.org/10.1016/j.ecoenv.2022.113584</a> .  |
| <b>ZHAI Li</b>               | # <a href="#">LI Zijian</a> , # <a href="#">ZHAI Li</a> , <a href="#">GE Yiyao</a> , <a href="#">HUANG Zhiqi</a> , <a href="#">SHI Zhenyu</a> , LIU Jiawei, # <a href="#">ZHAI Wei</a> , # <a href="#">LIANG Jinzhe</a> , <a href="#">ZHANG Hua</a> , "Wet-chemical synthesis of two-dimensional metal nanomaterials for electrocatalysis", <i>National Science Review</i> , 11 August 2021, doi: <a href="https://doi.org/10.1093/nsr/nwab142">https://doi.org/10.1093/nsr/nwab142</a> .<br># <a href="#">WANG Juan</a> , # <a href="#">YU Jinli</a> , SUN Mingzi, <a href="#">LIAO Lingwen</a> , ZHANG Qinghua, # <a href="#">ZHAI Li</a> , # <a href="#">ZHOU Xichen</a> , # <a href="#">LI Lujiang</a> , WANG Gang, MENG Fanqi, <a href="#">SHEN Dong</a> , # <a href="#">LI Zijian</a> , BAO Haibo, # <a href="#">WANG Yunhao</a> , # <a href="#">ZHOU Jingwen</a> , CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, <a href="#">LEE Chun Sing</a> , <a href="#">FAN Zhanxi</a> , "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i> , 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a> .  |

## Section A: Publications of PhD Students

|           |  |
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|           | <p>#MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p> |
|           | <p>#LIANG Jinzhe, GE Yiyao, #HE Zhen, YUN Qinbai, LIU Guigao, #LU Shiyao, #ZHAI Li, #HUANG Biao, ZHANG Hua, "Wet-chemical synthesis and applications of amorphous metal-containing nanomaterials", <i>Nano Research</i>, 20 December 2021, doi: <a href="https://doi.org/10.1007/s12274-021-4007-6">https://doi.org/10.1007/s12274-021-4007-6</a>.</p>   |
|           | <p>#ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with fcc-2H- fcc Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i>, 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a>.</p>   |
| ZHAI Wei  | <p>#LI Zijian, #ZHAI Li, GE Yiyao, HUANG Zhiqi, SHI Zhenyu, LIU Jiawei, #ZHAI Wei, #LIANG Jinzhe, ZHANG Hua, "Wet-chemical synthesis of two-dimensional metal nanomaterials for electrocatalysis", <i>National Science Review</i>, 11 August 2021, doi: <a href="https://doi.org/10.1093/nsr/nwab142">https://doi.org/10.1093/nsr/nwab142</a>.</p>   |
|           | <p>LAI Zhuangchai, #YAO Yao, #LI Siyuan, MA Lu, ZHANG Qinghua, GE Yiyao, #ZHAI Wei, #CHI Banlan, CHEN Bo, #LI Lujiang, WANG Lei, ZHENG Zijian, GU Lin, DU Yonghua, ZHANG Hua, "Salt-Assisted 2H-to-1T' Phase Transformation of Transition Metal Dichalcogenides", <i>Advanced Materials</i>, 34(26), 18 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201194">https://doi.org/10.1002/adma.202201194</a>.</p>  |
|           | <p>#WANG Wenbin, #ZHAI Wei, CHEN Ye, HE Qiyuan, ZHANG Hua, "Two-dimensional material-based virus detection", <i>Science China Chemistry</i>, 65(3), 05 January 2022, pp 497–513, doi: <a href="https://doi.org/10.1007/s11426-021-1150-7">https://doi.org/10.1007/s11426-021-1150-7</a>.</p>   |
|           | <p>#ZHAI Wei, #XIONG Tengfei, #HE Zhen, #LU Shiyao, LAI Zhuangchai, HE Qiyuan, TAN Chaoliang, ZHANG Hua, "Nanodots Derived from Layered Materials: Synthesis and Applications", <i>Advanced Materials</i>, 33(46), 01 July 2021, doi: <a href="https://doi.org/10.1002/adma.202006661">https://doi.org/10.1002/adma.202006661</a>.</p>   |
| ZHANG Di  | <p>LIU Taili, #ZHANG Di, #HUQE Md Rashedul, WANG Wen, ZAPIEN Juan Antonio, TSANG Sai Wing, LUO Jingdong, "Record-high near-band-edge optical nonlinearities and two-level model correction of poled polymers by spectroscopic electromodulation and ellipsometry", <i>Science China Chemistry</i>, 65(3), 21 December 2021, pp 584-593, doi: <a href="https://doi.org/10.1007/s11426-021-1164-4">https://doi.org/10.1007/s11426-021-1164-4</a>.</p>  |
|           | <p>#LI Xiaozhen, #ZHANG Di, LU Guihong, HE Tingchao, #WAN Yingpeng, TSE Man Kit, REN Can, WANG Pengfei, LI Shengliang, LUO Jingdong, LEE Chun Sing, "Photochemical Synthesis of Nonplanar Small Molecules with Ultrafast Nonradiative Decay for Highly Efficient Phototheranostics", <i>Advanced Materials</i>, 28 July 2021, doi: <a href="https://doi.org/10.1002/adma.202102799">https://doi.org/10.1002/adma.202102799</a>.</p>  |
|           | <p>#ZHANG Di, #ZOU Jie, #CHEN Weilong, YIU Shek Man Ken, TSE Man Kit, LUO Jingdong, JEN Alex, "Efficient, Stable, and Scalable Push-Pull Heptamethines for Electro-Optics", <i>Chemistry of Materials</i>, 34(8), 08 April 2022, pp 3683-3693, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c04339">https://doi.org/10.1021/acs.chemmater.1c04339</a>.</p>   |
| ZHANG Jie | <p>#ZHANG Jie, ZHANG Yachao, GUO Qiang, WEN Guohua, XIAO Hanyue, QI Shuo, #WANG Yue, ZHANG Huatang, WANG Lidai, SUN Hongyan, "Photoacoustic/Fluorescence Dual-Modality Probe for Biothiol Discrimination and Tumor Diagnosis in Cells and Mice", <i>ACS Sensors</i>, 7(4), 31 March 2022, pp 1105–1112, doi: <a href="https://doi.org/10.1021/acssensors.2c00058">https://doi.org/10.1021/acssensors.2c00058</a>.</p>  |
|           | <p>YANG Liu, CHEN Suyuan, YI Dong, #CHEN Qingxin, #ZHANG Jie, XIE Yusheng, SUN Hongyan, "Synthesis and fluorescence properties of red-to-near-infrared-emitting push-</p>  |

## Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | pull dyes based on benzodioxazole scaffolds", <i>Journal of Materials Chemistry B</i> , 9(40), 01 September 2021, pp 8512-8517, doi: <a href="https://doi.org/10.1039/d1tb01189h">https://doi.org/10.1039/d1tb01189h</a> .  |
|                     | <u>YANG Liu</u> , # <u>LIU Guopan</u> , # <u>CHEN Qingxin</u> , # <u>WAN Yingpeng</u> , # <u>LIU Zhiyang</u> , # <u>ZHANG Jie</u> , # <u>HUANG Chen</u> , <u>XU Zhiqiang</u> , <u>LI Shengliang</u> , <u>LEE Chun Sing</u> , <u>ZHANG Liang</u> , <u>SUN Hongyan</u> , "An Activatable NIR Probe for the Detection and Elimination of Senescent Cells", <i>Analytical Chemistry</i> , 94(13), 23 March 2022, pp 5425-5431, doi: <a href="https://doi.org/10.1021/acs.analchem.2c00239">https://doi.org/10.1021/acs.analchem.2c00239</a> .   |
|                     | <u>GUO Qiang</u> , # <u>ZHANG Jie</u> , <u>SUN Hongyan</u> , <u>CHEN Jianlin</u> , "A Graphene Oxide-based Covalent Resorufin-Conjugated Fluorescence "OFF-ON" Probe for Detection of Hydrazine", <i>Chemistry - An Asian Journal</i> , 17(12), 12 April 2022, doi: <a href="https://doi.org/10.1002/asia.202200060">https://doi.org/10.1002/asia.202200060</a> .   |
|                     | <u>YANG Liu</u> , <u>XIE Yusheng</u> , # <u>CHEN Qingxin</u> , # <u>ZHANG Jie</u> , <u>LI Lin</u> , <u>SUN Hongyan</u> , "Colorimetric and fluorescent dual-signal chemosensor for lysine and arginine and its application to detect amines in solid-phase peptide synthesis", <i>ACS Applied Bio Materials</i> , 4(8), 03 August 2021, pp 6558-6564, doi: <a href="https://doi.org/10.1021/acsabm.1c00715">https://doi.org/10.1021/acsabm.1c00715</a> .  |
| <b>ZHANG Jieru</b>  | # <u>ZHANG Jieru</u> , <u>WU Tai-Sing</u> , <u>THANG Ho Viet</u> , <u>TSENG Kai-Yu</u> , <u>HAO Xiaodong</u> , <u>XU Bingshe</u> , <u>CHEN Hsin-Yi Tiffany</u> , <u>PENG Yung-kang</u> , "Cluster Nanozymes with Optimized Reactivity and Utilization of Active Sites for Effective Peroxidase (and Oxidase) Mimicking", <i>Small</i> , 18(5), 25 November 2021, doi: <a href="https://doi.org/10.1002/smll.202104844">https://doi.org/10.1002/smll.202104844</a> .   |
| <b>ZHANG Li</b>     | # <u>YANG Zhe</u> , # <u>ZHANG Li</u> , <u>WEI Jieli</u> , <u>LI Ruiqi</u> , <u>XU Qi</u> , <u>HU Han</u> , <u>XU Zushun</u> , <u>REN Jinghua</u> , <u>WONG Chun Yuen Alex</u> , "Tumor acidity-activatable photothermal/Fenton nanoagent for synergistic therapy", <i>Journal of Colloid and Interface Science</i> , 612, 25 December 2021, pp 355-366, doi: <a href="https://doi.org/10.1016/j.jcis.2021.12.134">https://doi.org/10.1016/j.jcis.2021.12.134</a> .<br># <u>ZHANG Li</u> , <u>FAN Yadi</u> , # <u>YANG Zhe</u> , <u>YANG Mo</u> , <u>WONG Chun Yuen Alex</u> , "NIR-II-driven and glutathione depletion-enhanced hypoxia-irrelevant free radical nanogenerator for combined cancer therapy", <i>Journal of Nanobiotechnology</i> , 19, 06 September 2021, doi: <a href="https://doi.org/10.1186/s12951-021-01003-2">https://doi.org/10.1186/s12951-021-01003-2</a> .  |
| <b>ZHANG Qiang</b>  | # <u>LI Geng</u> , # <u>LIU Yong</u> , # <u>ZHANG Qiang</u> , # <u>HU Qiushi</u> , # <u>GUO Weihua</u> , # <u>CAO Xiaohu</u> , # <u>DOU Yubing</u> , # <u>CHENG Le</u> , # <u>SONG Yun</u> , # <u>SU Jianjun</u> , # <u>HUANG Libei</u> , <u>YE Ruquan</u> , "Development of catalysts and electrolyzers toward industrial-scale CO <sub>2</sub> electroreduction", <i>Journal of Materials Chemistry A</i> , 31 May 2022, doi: <a href="https://doi.org/10.1039/d2ta02086f">https://doi.org/10.1039/d2ta02086f</a> .   |
| <b>ZHAO Haizhou</b> | # <u>ZHAO Haizhou</u> , # <u>WONG Hei Yuen</u> , # <u>Jl Danyang</u> , # <u>LYU Kaixin</u> , <u>KWOK Chun Kit</u> , "Novel L-RNA Aptamer Controls APP Gene Expression in Cells by Targeting RNA G-Quadruplex Structure", <i>ACS Applied Materials &amp; Interfaces</i> , 14(27), 28 June 2022, pp 30582-30594, doi: <a href="https://doi.org/10.1021/acsami.2c06390">https://doi.org/10.1021/acsami.2c06390</a> .<br># <u>Jl Danyang</u> , # <u>LYU Kaixin</u> , # <u>ZHAO Haizhou</u> , <u>KWOK Chun Kit</u> , "Circular L-RNA aptamer promotes target recognition and controls gene activity", <i>Nucleic Acids Research</i> , 49(13), 07 July 2021, pp 7280-7291, doi: <a href="https://doi.org/10.1093/nar/gkab593">https://doi.org/10.1093/nar/gkab593</a> .   |
| <b>ZHAO Jieyu</b>   | <u>DUMETZ Franck</u> , <u>ENRIGHT Anton J.</u> , # <u>ZHAO Jieyu</u> , <u>KWOK Chun Kit</u> , <u>MERRICK Catherine J.</u> , "The in vivo RNA structurome of the malaria parasite Plasmodium falciparum, a protozoan with an A/U-rich transcriptome", <i>PLOS ONE</i> , 17(9), 2022, doi: <a href="https://doi.org/10.1371/journal.pone.0270863">https://doi.org/10.1371/journal.pone.0270863</a> .<br><u>XU Bingbing</u> , <u>ZHU Yanda</u> , <u>CAO Changchang</u> , <u>CHEN Hao</u> , <u>JIN Qiongli</u> , <u>LI Guangnan</u> , <u>MA Junfeng</u> , # <u>ZHAO Jieyu</u> , <u>ZHU Jianghui</u> , <u>DING Yiliang</u> , <u>FANG Xianyang</u> , <u>JIN Yongfeng</u> , <u>KWOK Chun Kit</u> , <u>REN Aiming</u> , <u>WAN Yue</u> , <u>WANG Zhiye</u> , <u>XUE Yuanchao</u> , <u>ZHANG Huakun</u> , <u>ZHANG Qiangfeng Cliff</u> , <u>ZHOU Yu</u> , "Recent advances in RNA structurome", <i>Science China Life Sciences</i> , 14 June 2022, doi: <a href="https://doi.org/10.1007/s11427-021-2116-2">https://doi.org/10.1007/s11427-021-2116-2</a> .<br><u>CHEN Xiaona</u> , <u>XUE Guang</u> , # <u>ZHAO Jieyu</u> , <u>ZHANG Yuwei</u> , <u>ZHANG Suyang</u> , <u>WANG Wen</u> , <u>LI Yang</u> , <u>YUAN Jie</u> , <u>HE Liangqiang</u> , <u>CHAN Chun Yin</u> , <u>LIU Yan</u> , <u>CHEN Wei</u> , <u>ZHAO Yu</u> , <u>HU Ping</u> , <u>SUN Hao</u> , <u>KWOK Chun Kit</u> , <u>WANG Huating</u> , "Lockd promotes myoblast proliferation and muscle regeneration via binding with DHX36 to facilitate 5' UTR rG4 unwinding and Anp32e translation", <i>Cell Reports</i> , 39(10), 07 June 2022, doi: <a href="https://doi.org/10.1016/j.celrep.2022.110927">https://doi.org/10.1016/j.celrep.2022.110927</a> . |
| <b>ZHAO Qi</b>      | # <u>HUANG Zhongming</u> , # <u>WAN Yingpeng</u> , # <u>LIANG Jianli</u> , # <u>XIAO Yafang</u> , # <u>LI Xiaozhen</u> , <u>CUI Xiao</u> , # <u>TIAN Shuang</u> , # <u>ZHAO Qi</u> , <u>LI Shengliang</u> , <u>LEE Chun Sing</u> , "Multi-Synergistic Removal of Low-Boiling-Point Contaminants with Efficient Carbon Aerogel-Based Solar Purifier",  |

## Section A: Publications of PhD Students

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|  | <i>ACS Applied Materials &amp; Interfaces</i> , 13(27), 05 July 2021, pp 31624–31634, doi: <a href="https://doi.org/10.1021/acsami.1c06000">https://doi.org/10.1021/acsami.1c06000</a> .  |
| <b>ZHAO Yifei</b>  | WANG Yuanjing, ZHOU Yayun, MING Hong, #ZHAO Yifei, SONG Enhai, ZHANG Qinyuan, "Luminescence Enhancement of Mn <sup>4+</sup> -Activated Fluorides via a Heterovalent Co-Doping Strategy for Monochromatic Multiplexing", <i>ACS Applied Materials &amp; Interfaces</i> , 13(43), 26 October 2021, pp 51255–51265, doi: <a href="https://doi.org/10.1021/acsami.1c17135">https://doi.org/10.1021/acsami.1c17135</a> .   |
|  | LAI Shunqi, ZHAO Ming, #ZHAO Yifei, MOLOKEEV Maxim S., XIA Zhiguo, "Eu <sup>2+</sup> Doping Concentration-Induced Site-Selective Occupation and Photoluminescence Tuning in K <sub>2</sub> SrScSi <sub>2</sub> O <sub>7</sub> :Eu <sup>2+</sup> Phosphor", <i>ACS Materials Au</i> , 2(3), 24 February 2022, pp 374–380, doi: <a href="https://doi.org/10.1021/acsmaterialsau.1c00081">https://doi.org/10.1021/acsmaterialsau.1c00081</a> .   |
|  | WANG Wei, CHEN Qinpeng, #ZHAO Yifei, LE Yakun, YE Shengda, WAN Mang, HUANG Xiongjian, DONG Guoping, "PbS quantum dots and BaF <sub>2</sub> : Tm <sup>3+</sup> nanocrystals co-doped glass for ultra-broadband near-infrared emission [Invited]", <i>Chinese Optics Letters</i> , 20(2), 09 December 2021, doi: <a href="https://doi.org/10.3788/COL202220.021603">https://doi.org/10.3788/COL202220.021603</a> .  |
|  | YANG R. R., LI M., #ZHAO Yifei, WANG P., YE S., "Regulating synthesis and photochromic behavior via interfacial Eu <sup>3+</sup> /Eu <sup>2+</sup> -Pb <sup>0</sup> /Pb <sup>2+</sup> redox of the CsPbCl <sub>1.5</sub> Br <sub>1.5</sub> @Ca <sub>0.9</sub> Eu <sub>0.1</sub> MoO <sub>4</sub> porous composites", <i>Materials Today Chemistry</i> , 23, 23 December 2021, doi: <a href="https://doi.org/10.1016/j.mtchem.2021.100721">https://doi.org/10.1016/j.mtchem.2021.100721</a> .  |
|  | ZHU Xinglu, #ZHAO Yifei, ZHANG Shuai, WU Junkun, SHAO Dong, SONG Enhai, ZHANG Qinyuan, YIN Congling, YE Shi, "Isolated-Mn <sup>2+</sup> -like Luminescent Behavior in CsMnF <sub>3</sub> Caused by Competing Magnetic Interactions at Cryogenic Temperature", <i>Journal of Physical Chemistry C</i> , 125(50), 10 December 2021, pp 27800–27809, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c08536">https://doi.org/10.1021/acs.jpcc.1c08536</a> .  |
|  | LI Man, #ZHAO Yifei, ZHANG Shuai, YANG Ruirui, QIU Weidong, WANG Pin, MOLOKEEV Maxim S., YE Shi, "Understanding the Energy Barriers of the Reversible Ion Exchange Process in CsPbBr <sub>1.5</sub> Cl <sub>1.5</sub> @Y <sub>2</sub> O <sub>3</sub> :Eu <sup>3+</sup> Macroporous Composites and Their Application in Anti-Counterfeiting Codes", <i>ACS Applied Materials and Interfaces</i> , 13(50), 08 December 2021, pp 60362–60372, doi: <a href="https://doi.org/10.1021/acsami.1c18030">https://doi.org/10.1021/acsami.1c18030</a> .   |
|  | YANG Zhiyu, LIU Gaochao, #ZHAO Yifei, ZHOU Yayun, QIAO Jianwei, MOLOKEEV Maxim S., SWART Hendrik C., XIA Zhiguo, "Competitive Site Occupation toward Improved Quantum Efficiency of SrLaScO <sub>4</sub> :Eu Red Phosphors for Warm White LEDs", <i>Advanced Optical Materials</i> , 10(6), 20 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102373">https://doi.org/10.1002/adom.202102373</a> .  |
|  | #MA Yangbo, #YU Jinli, SUN Mingzi, CHEN Bo, #ZHOU Xichen, YE Chenliang, GUAN Zhiqiang, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, YUN Qinbai, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, LIAO Lingwen, ZHU Zonglong, YE Ruquan, CHEN Ye, LU Yang, XI Shibo, HUANG Bolong, LEE Chun Sing, FAN Zhanxi, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i> , 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a> . |
|  | LI Mingjia, YANG Dandan, HUANG Xiongjian, ZHANG Hao, #ZHAO Yifei, YIN Bozhao, PAN Qiwen, KANG Juan, ZHENG Nan, LIU Xiaofeng, QIU Jianrong, YANG Zhongmin, DONG Guoping, "Coupling Localized Laser Writing and Nonlocal Recrystallization in Perovskite Crystals for Reversible Multidimensional Optical Encryption", <i>Advanced Materials</i> , 34(26), 13 April 2022, doi: <a href="https://doi.org/10.1002/adma.202201413">https://doi.org/10.1002/adma.202201413</a> .  |
| MING Hong, #ZHAO Yifei, ZHOU Yayun, MOLOKEEV Maxim S., WANG Yuanjing, ZHANG Shuai, SONG Enhai, YE Shi, XIA Zhiguo, ZHANG Qinyuan, "Shining Mn <sup>4+</sup> in OD Organometallic Fluoride Hosts towards Highly Efficient Photoluminescence", <i>Advanced Optical Materials</i> , 10(7), 11 February 2022, doi: <a href="https://doi.org/10.1002/adom.202102141">https://doi.org/10.1002/adom.202102141</a> . |   |
| <b>ZHOU Chuanwen</b>   | GAO Diance, ZHANG Sheng, SUN Yongjun, #ZHOU Chuanwen, BU Yu, CHAI Jiale, "A novel model of mixed-particle coating for accurate performance quantifications at varying composition percentages", <i>International Journal of Heat and Mass Transfer</i> , 191, 02 April 2022, doi: <a href="https://doi.org/10.1016/j.ijheatmasstransfer.2022.122833">https://doi.org/10.1016/j.ijheatmasstransfer.2022.122833</a> .   |

Section A: Publications of PhD Students

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|----------------------------|---|
| <p><b>ZHOU Jingwen</b></p> | <p>#WANG Juan, #YU Jinli, SUN Mingzi, <u>LIAO Lingwen</u>, ZHANG Qinghua, #ZHAI Li, #ZHOU Xichen, #LI Lujiang, WANG Gang, MENG Fanqi, <u>SHEN Dong</u>, #LI Zijian, BAO Haibo, #WANG Yunhao, #ZHOU Jingwen, CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, <u>LEE Chun Sing</u>, <u>FAN Zhanxi</u>, "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i>, 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a>.</p> <p>#WANG Yunhao, #ZHOU Jingwen, LIN Chao, <u>CHEN Bo</u>, <u>GUAN Zhiqiang</u>, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, <u>GE Yiyao</u>, <u>YUN Qinbai</u>, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, <u>LEE Chun Sing</u>, LIU Yijin, ZHANG Qianfan, <u>FAN Zhanxi</u>, "Decreasing the Overpotential of Aprotic Li-CO<sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i>, 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a>.</p> <p>#XIONG Yuecheng, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #WANG Yunhao, <u>FAN Zhanxi</u>, "Electrochemical lithium extraction from aqueous sources", <i>Matter</i>, 5(6), 01 June 2022, pp 1760-1791, doi: <a href="https://doi.org/10.1016/j.matt.2022.04.034">https://doi.org/10.1016/j.matt.2022.04.034</a>.</p> <p>#MA Yangbo, #YU Jinli, SUN Mingzi, <u>CHEN Bo</u>, #ZHOU Xichen, YE Chenliang, <u>GUAN Zhiqiang</u>, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, <u>YUN Qinbai</u>, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, <u>LIAO Lingwen</u>, <u>ZHU Zonglong</u>, YE Ruquan, CHEN Ye, <u>LU Yang</u>, XI Shibo, HUANG Bolong, <u>LEE Chun Sing</u>, <u>FAN Zhanxi</u>, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p> |
| <p><b>ZHOU Li</b></p>      | <p>#ZHOU Li, LIU Guijian, SHEN Mengchen, LIU Yuan, "Potential ecological and health risks of heavy metals for indoor and corresponding outdoor dust in Hefei, Central China", <i>Chemosphere</i>, 302, 07 May 2022, doi: <a href="https://doi.org/10.1016/j.chemosphere.2022.134864">https://doi.org/10.1016/j.chemosphere.2022.134864</a>.</p>   |
| <p><b>ZHOU Qiyuan</b></p>  | <p>#CHEN Shu, NG Ka Yan, #ZHOU Qiyuan, #YAO Houzong, #DENG Zhiqin, TSE Man Kit, <u>ZHU Guangyu</u>, "The influence of different carbonate ligands on the hydrolytic stability and reduction of platinum(IV) prodrugs", <i>Dalton Transactions</i>, 51(3), 13 December 2021, doi: <a href="https://doi.org/10.1039/d1dt03959h">https://doi.org/10.1039/d1dt03959h</a>.</p>   |
| <p><b>ZHOU Xichen</b></p>  | <p>#WANG Juan, #YU Jinli, SUN Mingzi, <u>LIAO Lingwen</u>, ZHANG Qinghua, #ZHAI Li, #ZHOU Xichen, #LI Lujiang, WANG Gang, MENG Fanqi, <u>SHEN Dong</u>, #LI Zijian, BAO Haibo, #WANG Yunhao, #ZHOU Jingwen, CHEN Ye, NIU Wenxin, HUANG Bolong, GU Lin, <u>LEE Chun Sing</u>, <u>FAN Zhanxi</u>, "Surface Molecular Functionalization of Unusual Phase Metal Nanomaterials for Highly Efficient Electrochemical Carbon Dioxide Reduction under Industry-Relevant Current Density", <i>Small</i>, 18(11), 20 January 2022, doi: <a href="https://doi.org/10.1002/sml.202106766">https://doi.org/10.1002/sml.202106766</a>.</p> <p>#WANG Yunhao, #ZHOU Jingwen, LIN Chao, <u>CHEN Bo</u>, <u>GUAN Zhiqiang</u>, EBRAHIM Amani M., QIAN Guannan, YE Chenliang, CHEN Lin, <u>GE Yiyao</u>, <u>YUN Qinbai</u>, #WANG Xixi, #ZHOU Xichen, WANG Gang, #LI Kedi, #LU Pengyi, #MA Yangbo, #XIONG Yuecheng, WANG Tianshuai, ZHENG Long, CHU Shengqi, CHEN Ye, WANG Bin, <u>LEE Chun Sing</u>, LIU Yijin, ZHANG Qianfan, <u>FAN Zhanxi</u>, "Decreasing the Overpotential of Aprotic Li-CO<sub>2</sub> Batteries with the In-Plane Alloy Structure in Ultrathin 2D Ru-Based Nanosheets", <i>Advanced Functional Materials</i>, 04 May 2022, doi: <a href="https://doi.org/10.1002/adfm.202202737">https://doi.org/10.1002/adfm.202202737</a>.</p> <p>#MA Yangbo, #YU Jinli, SUN Mingzi, <u>CHEN Bo</u>, #ZHOU Xichen, YE Chenliang, <u>GUAN Zhiqiang</u>, #GUO Weihua, WANG Gang, #LU Shiyao, XIA Dongsheng, #WANG Yunhao, #HE Zhen, ZHENG Long, <u>YUN Qinbai</u>, #WANG Liqiang, #ZHOU Jingwen, #LU Pengyi, #YIN Jinwen, #ZHAO Yifei, #LUO Zhongbin, #ZHAI Li, <u>LIAO Lingwen</u>, <u>ZHU Zonglong</u>, YE Ruquan, CHEN Ye, <u>LU Yang</u>, XI Shibo, HUANG Bolong, <u>LEE Chun Sing</u>, <u>FAN Zhanxi</u>, "Confined Growth of Silver–Copper Janus Nanostructures with {100} Facets for Highly Selective Tandem Electrocatalytic Carbon Dioxide Reduction", <i>Advanced Materials</i>, 34(19), 11 March 2022, doi: <a href="https://doi.org/10.1002/adma.202110607">https://doi.org/10.1002/adma.202110607</a>.</p>  |



## Section A: Publications of PhD Students

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|                          | #ZHOU Xichen, #MA Yangbo, GE Yiyao, ZHU Shangqian, CUI Yu, CHEN Bo, LIAO Lingwen, YUN Qinbai, #HE Zhen, #LONG Huiwu, #LI Lujiang, #HUANG Biao, #LUO Qinxin, #ZHAI Li, #WANG Xixi, BAI Licheng, WANG Gang, GUAN Zhiqiang, CHEN Ye, LEE Chun Sing, WANG Jinlan, LING Chongyi, SHAO Minhua, FAN Zhanxi, ZHANG Hua, "Preparation of Au@Pd Core-Shell Nanorods with <i>fcc</i> -2H- <i>fcc</i> Heterophase for Highly Efficient Electrocatalytic Alcohol Oxidation", <i>Journal of the American Chemical Society</i> , 144(1), 21 December 2021, pp 547-555, doi: <a href="https://doi.org/10.1021/jacs.1c11313">https://doi.org/10.1021/jacs.1c11313</a> . |
| ZHU Jinghui              | #ZHU Jinghui, YIU Shek Man Ken, TANG Ben Zhong, LO Kam Wing Kenneth, "Luminescent Neutral Cyclometalated Iridium(III) Complexes Featuring a Cubic Polyhedral Oligomeric Silsesquioxane for Lipid Droplet Imaging and Photocytotoxic Applications", <i>Inorganic Chemistry</i> , 60(15), 16 July 2021, pp 11672–11683, doi: <a href="https://doi.org/10.1021/acs.inorgchem.1c01728">https://doi.org/10.1021/acs.inorgchem.1c01728</a> .   |
|                          | #ZHU Jinghui, #XU Guangxi, #SHUM Justin, LEE Cho Cheung, LO Kam Wing Kenneth, "Tuning the organelle specificity and cytotoxicity of iridium(III) photosensitisers for enhanced phototheranostic applications", <i>Chemical Communications</i> , 57(90), 05 October 2021, pp 12008-12011, doi: <a href="https://doi.org/10.1039/d1cc04982h">https://doi.org/10.1039/d1cc04982h</a> .  |
| ZHU Zhaohua              | GUAN Zhiqiang, #LI Yang, #ZHU Zhaohua, #ZENG Zixin, SHEN Dong, #TAN Jihua, TSANG Sai Wing, LIU Shihao, LEE Chun Sing, "Efficient Perovskite White Light-Emitting Diode Based on an Interfacial Charge-Confinement Structure", <i>ACS Applied Materials and Interfaces</i> , 13(37), 07 September 2021, pp 44991-45000, doi: <a href="https://doi.org/10.1021/acsami.1c09715">https://doi.org/10.1021/acsami.1c09715</a> .  |
|                          | #ZHU Zhaohua, #WU Yan, #LI Yang, #ZENG Zixin, TSANG Sai Wing, GUAN Zhiqiang, LEE Chun Sing, "Enhancing the Performance of Perovskite Light-Emitting Diodes by Humidity Treatment", <i>ACS Applied Materials and Interfaces</i> , 14(17), 21 April 2022, pp 19774–19784, doi: <a href="https://doi.org/10.1021/acsami.1c24561">https://doi.org/10.1021/acsami.1c24561</a> .   |
|                          | #WU Yan, #ZHU Zhaohua, SHEN Dong, CHEN Lina, #SONG Tianyi, #KANG Tianxing, TONG Zhongqiu, TANG Yongbing, WANG Hui, LEE Chun Sing, "Electrolyte engineering enables stable Zn-Ion deposition for long-cycling life aqueous Zn-ion batteries", <i>Energy Storage Materials</i> , 45, 04 November 2021, pp 1084-1091, doi: <a href="https://doi.org/10.1016/j.ensm.2021.11.003">https://doi.org/10.1016/j.ensm.2021.11.003</a> .  |
| ZOU Jie                  | #ZHANG Di, #ZOU Jie, #CHEN Weilong, YIU Shek Man Ken, TSE Man Kit, LUO Jingdong, JEN Alex, "Efficient, Stable, and Scalable Push-Pull Heptamethines for Electro-Optics", <i>Chemistry of Materials</i> , 34(8), 08 April 2022, pp 3683-3693, doi: <a href="https://doi.org/10.1021/acs.chemmater.1c04339">https://doi.org/10.1021/acs.chemmater.1c04339</a> .  |
| <b>Conference papers</b> |  |
| ANS Muhammad             | #ANS Muhammad, LI Yinan, TANG Wai Kit, OOMENS Jos, CHU Ivan Keung, SIU Chi Kit Andy, " $\alpha$ -C $\beta$ Tyrosyl Bond Cleavage: Theoretical and Spectroscopic Investigation of the Generation of $\alpha$ -Glycyl Radical Cations from Tyrosylglycylglycine", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.   |
| DEMISSIE Ephrem Gizachew | #DEMISSIE Ephrem Gizachew, TANG Wai Kit, SIU Chi Kit Andy, "Decomposition Mechanism of Nitrous Oxide in Hydrated Clusters of Cobalt(I) Ion: A Model of Single-Site Catalysts", <i>Hong Kong Society of Mass Spectrometry (HKSMS) Symposium 2022</i> , Online, Hong Kong, 11 June 2022.   |
|                          | #DEMISSIE Ephrem Gizachew, LAM Wing Ka, #THOMPSON Hayden Ross, TANG Wai Kit, SIU Chi Kit Andy, "Decomposition of Nitrous Oxide in Hydrated Cobalt(I) Clusters: A Theoretical Insight into Mechanistic Roles of Ligand-binding Modes", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.   |
| HUANG Lili               | LO Kam Wing Kenneth, #HUANG Lili, #LEUNG Kam Keung, LEE Cho Cheung, "Modulation of Emission and Singlet Oxygen Photosensitization in Live Cells Utilizing Bioorthogonal Phosphorogenic Probes and Protein Tag Technology", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| IO Kai Wa                | LO Kam Wing Kenneth, #XU Junwen, #LEUNG Kam Keung, LEE Cho Cheung, YEUNG Ho Yin, #IO Kai Wa, "Bioorthogonal Control of the Phosphorescence and Singlet Oxygen  |

## Section A: Publications of PhD Students

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|                            | Photosensitization Properties of Iridium(III) Tetrazine Complexes", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| <b>LAM Zachary</b>         | #LAM Zachary, LEONG Bi-Xiang, CHAN Yuk Chi, BANG Qing-Xin, SO Cheuk-Wai, SIU Chi Kit Andy, "Mechanistic insights on Catalyzed CO <sub>2</sub> Hydroboration by in situ Generated NHC-Borylsilylene", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.   |
| <b>LEUNG Kam Keung</b>     | LO Kam Wing Kenneth, #HUANG Lili, #LEUNG Kam Keung, LEE Cho Cheung, "Modulation of Emission and Singlet Oxygen Photosensitization in Live Cells Utilizing Bioorthogonal Phosphorogenic Probes and Protein Tag Technology", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.   |
|                            | LO Kam Wing Kenneth, #XU Junwen, #LEUNG Kam Keung, LEE Cho Cheung, YEUNG Ho Yin, #IO Kai Wa, "Bioorthogonal Control of the Phosphorescence and Singlet Oxygen Photosensitization Properties of Iridium(III) Tetrazine Complexes", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
|                            | LO Kam Wing Kenneth, #XU Guangxi, LEE Cho Cheung, #KWOK Wing Ching, #LEUNG Kam Keung, #ZHU Jinghui, "Utilization of Rhenium(I) Polypyridine Complexes Featuring a Dinitrophenylsulfonamide Moiety as Biothiol-selective Phosphorogenic Bioimaging Reagents and Photocytotoxic Agents", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021. |
| <b>LI Xiaozhen</b>         | #CHEN Jiangbo, ZHANG Yachao, #LI Xiaozhen, #ZHU Jingyi, LI Dengfeng, LI Shengliang, LEE Chun Sing, WANG Lidai, "Confocal Visible/NIR Photoacoustic Microscopy of Early-stage Tumor with Structural, Functional and Nanoprobe Contrasts", <i>2021 Conference on Lasers and Electro-Optics (CLEO) - Proceedings</i> , Virtual, United States, 09-14 May 2021, (ISBN: 9781665447928,9781943580910).                          |
| <b>LIU Haijun</b>          | #THI Quoc Huy, ZHENG Fangyuan, WONG Lok Wing, #LIU Haijun, DENG Qingming, ZHAO Jiong, LY Thuc Hue, "Critical Stable Length in Wrinkles of Two-Dimensional Materials", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| <b>MAK Chiu Lam Eunice</b> | LO Kam Wing Kenneth, #MAK Chiu Lam Eunice, "A Rhenium(I) Polypyridine Tetrazine Complex as Phosphorogenic Bioorthogonal Reagent for Release of Functional Payloads", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.   |
| <b>SHUM Justin</b>         | LO Kam Wing Kenneth, #SHUM Justin, ZHANG Peizhi, LEE Cho Cheung, "Bioorthogonal Phosphorogenic Rhenium(I) Polypyridine Sydnone Complexes for Specific Lysosome Labeling", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| <b>THI Quoc Huy</b>        | #THI Quoc Huy, ZHENG Fangyuan, WONG Lok Wing, #LIU Haijun, DENG Qingming, ZHAO Jiong, LY Thuc Hue, "Critical Stable Length in Wrinkles of Two-Dimensional Materials", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| <b>XU Guangxi</b>          | LO Kam Wing Kenneth, #XU Guangxi, LEE Cho Cheung, #KWOK Wing Ching, #LEUNG Kam Keung, #ZHU Jinghui, "Utilization of Rhenium(I) Polypyridine Complexes Featuring a Dinitrophenylsulfonamide Moiety as Biothiol-selective Phosphorogenic Bioimaging Reagents and Photocytotoxic Agents", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021. |
| <b>XU Junwen</b>           | LO Kam Wing Kenneth, #XU Junwen, #LEUNG Kam Keung, LEE Cho Cheung, YEUNG Ho Yin, #IO Kai Wa, "Bioorthogonal Control of the Phosphorescence and Singlet Oxygen Photosensitization Properties of Iridium(III) Tetrazine Complexes", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| <b>YIP Man Hei</b>         | LO Kam Wing Kenneth, #YIP Man Hei, "Luminogenic Iridium(III) Bis-tetrazine Complexes as Double-clicking Two-point Binders and Bioorthogonal Probes for Bioimaging and   |

## Section A: Publications of PhD Students

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|   | Photocytotoxic Applications", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.  |
| ZHU Jinghui   | <u>LO Kam Wing Kenneth</u> , # <u>XU Guangxi</u> , <u>LEE Cho Cheung</u> , # <u>KWOK Wing Ching</u> , # <u>LEUNG Kam Keung</u> , # <u>ZHU Jinghui</u> , "Utilization of Rhenium(I) Polypyridine Complexes Featuring a Dinitrophenylsulfonamide Moiety as Biothiol-selective Phosphorogenic Bioimaging Reagents and Photocytotoxic Agents", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021. |
|   | <u>LO Kam Wing Kenneth</u> , # <u>ZHU Jinghui</u> , "Tuning the Organelle Specificity and Cytotoxicity of Iridium(III) Photosensitizers for Enhanced Phototheranostic Applications", <i>28th Symposium on Chemistry Postgraduate Research in Hong Kong</i> , Hong Kong Baptist University, Hong Kong, 06 November 2021.   |
| <b>Creative and literary works, consulting reports and case studies</b> |   |
| ADEDIPE Demilade Tunrayo  | # <u>ADEDIPE Demilade Tunrayo</u> , "Take Me Back - Take Me Back", <i>HALFWAY HOME XII - Hong Kong Writing</i> , Vol XII, Corrigan (Dr.) Paul, Harrison (Dr.) Simon and Ho (Dr.) Jenifer (eds), Department of English, City University of Hong Kong, 2022, pp 108.  |
| <b>All other outputs</b>  |   |
| BRADFORD Thea Elly  | # <u>BRADFORD Thea Elly</u> , The Hong Kong Marine Ecological Association Awards for Best Student Presentation, The 2nd International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems, The 2nd International Conference on Biodiversity, Ecology and Conservation of Marine Ecosystems, Hong Kong, January 2022.  |
| CHAN Fu Wai   | # <u>CHAN Fu Wai</u> , <i>Generation of Asymmetric Chiral-at-Metal Centers through Supramolecular Coordination Complexes of Chiral Pyridyl Imine Ligands</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 19 August 2021.   |
| CHENG Ke  | # <u>CHENG Ke</u> , <i>Developing Isoxazole-Based Photo-Cross-Linkers for Chemical Proteomics and a Self-Assembly Targeted Probe for Cancer Phototherapy</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 13 August 2021.   |
| DENG Zhiqin   | # <u>DENG Zhiqin</u> , <i>Photoactivatable and Organelle - Targeted Platinum (IV) Anticancer Prodrugs to Overcome Platinum Resistance</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.   |
| GU Jiarui   | # <u>GU Jiarui</u> , <i>Effects of Temperature and CO<sub>2</sub>-driven Seawater Acidification on the Physiology, Toxicity and Molecular Responses of Benthic Dinoflagellates Coolia spp.</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 09 July 2021.   |
| HAN Jingqi  | # <u>HAN Jingqi</u> , <i>Multi-stimuli Responsive Luminescent Cyclometalated Iridium(III) and Ruthenium(II) Complexes with Bidentate Acyclic Carbene Ligands - Design, Photophysics and Application Study</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 09 November 2021.  |
| HUANG Zhongming   | # <u>HUANG Zhongming</u> , <i>Functional Evaporators for Effective Solar Energy Driven Interface Water Evaporation and Contaminated Water Purification</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 05 October 2021.  |
| JI Danyang  | # <u>JI Danyang</u> , Beyotime Rising-Star Award for Scientist, 01 June 2022.   |
| JIN Jing  | # <u>JIN Jing</u> , <i>Late Holocene Paleo-environmental Changes Recorded in Lacustrine Sediments from Victoria Land, East Antarctica</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 28 June 2022.  |
| KHAN Shakeel Ahmad  | # <u>KHAN Shakeel Ahmad</u> , <i>Development of Promising Antimicrobial Materials Against Different Pathogenic Bacteria and Fungi</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.   |
| LEUNG Kam Keung   | # <u>LEUNG Kam Keung</u> , <i>Development of Photofunctional Rhenium(I) and Iridium(III) Polypyridine Complexes as Bioconjugation Reagents for Peptide Tags and Bioorthogonal Probes for Protein Tag Substrates</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 10 December 2021.  |
| LIN Huiju   | # <u>LIN Huiju</u> , <i>Per- and Polyfluoroalkyl Substances in Air: Size-Segregated Distribution, Gas-Particle Partitioning, Inhalation Hazards and Fluorine Mass Balance</i> , PhD Thesis,   |

## Section A: Publications of PhD Students

|                                  |  |
|----------------------------------|--|
|                                  | Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>MA Linlin</b>                 | # <u>MA Linlin</u> , <i>Design, Preparation and Electrocatalytic Properties of Biomass-based Functional Carbon Materials</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 15 November 2021.  |
| <b>QIU Yue</b>                   | # <u>QIU Yue</u> , <i>Sources Identification and Transformation Mechanisms of Atmospheric Mercury Using Mercury Isotopes: Case Studies of Planetary Boundary Layer, Marine Boundary Layer and Arctic Sites</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 13 June 2022.          |
| <b>TAN Zicong</b>                | # <u>TAN Zicong</u> , <i>Unravelling the Catalytic Mechanism of CeO<sub>2</sub> Nanozymes from the Perspective of Heterogeneous Catalysis</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 23 February 2022.   |
| <b>WAN Teng</b>                  | # <u>WAN Teng</u> , <i>Ancestral Benzo[a]pyrene Exposure Induces Multigenerational Skeletal Deformities and Neurological Impairment in Fish: Role of DNA Methylation</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 07 January 2022.   |
| <b>WAN Yingpeng</b>              | # <u>WAN Yingpeng</u> , <i>Near-Infrared Light-Activatable Organic Nanoparticles for Cancer Theranostics</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.  |
| <b>WANG Fei</b>                  | # <u>WANG Fei</u> , <i>Development of Threose Nucleic Acid-Based Reagents for Biomedical Applications</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 07 January 2022.  |
| <b>WANG Li</b>                   | # <u>WANG Li</u> , <i>The Occurrence, Transformation and Fate of Extracellular Antibiotic Resistance Genes in the Environment</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 27 June 2022.   |
| <b>WU Jing</b>                   | # <u>WU Jing</u> , <i>Ditopic Chelating Chiral Pyridine Ligands for Metallogrids and Helicates</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.  |
| <b>XIAO Yafang</b>               | # <u>XIAO Yafang</u> , <i>Design and Application of Thermally Activated Delayed Fluorescent Materials for Photodynamic Therapy</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.   |
| <b>XU Xiaoyu</b>                 | # <u>XU Xiaoyu</u> , <i>Microplastic Pollution in Hong Kong and Its Effects on Intertidal Zone Animals</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 13 July 2021.  |
| <b>YAO Houzong</b>               | # <u>YAO Houzong</u> , <i>Development of Platinum (IV) Anticancer Prodrugs with Enhanced Selectivity, Elevated Tumor Accumulation and Accelerated Reduction</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.  |
| <b>YUEN Ka Ki</b>                | # <u>YUEN Ka Ki</u> , <i>Monitoring Population Exposure to Polycyclic Aromatic Hydrocarbons by Their Hydroxylated Metabolites Using Wastewater-Based Epidemiology</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 12 July 2021.   |
| <b>ZHANG Jie</b>                 | # <u>ZHANG Jie</u> , <i>Rational Molecular Design of Fluorescence and Photoacoustic Probes for Bioimaging Applications</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 12 July 2021.  |
| <b>ZHANG Jieru</b>               | # <u>ZHANG Jieru</u> , <i>A Guideline for Designing and Synthesizing High Performance Peroxidase Mimicking Nanozymes</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 23 February 2022.  |
| <b>ZHANG Li</b>                  | # <u>ZHANG Li</u> , <i>Phototheranostic Agents for Cancer Imaging and Combined Therapy</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.   |
| <b>ZHU Jinghui</b>               | # <u>ZHU Jinghui</u> , <i>Novel Molecular Materials Derived from Photofunctional Cyclometalated Iridium(III) Complexes and Polyhedral Oligomeric Silsesquioxane as Bioimaging Reagents and Photocytotoxic Agents</i> , PhD Thesis, Department of Chemistry, City University of Hong Kong, Hong Kong, PRC, 10 January 2022. |
| <b>DEPARTMENT OF MATHEMATICS</b> |  |

Section A: Publications of PhD Students

| Journal publications  |   |
|-----------------------|---|
| <b>CHEN Shuqi</b>     | #CHEN Shuqi, HO Wing Cheong Daniel, "Information-based distributed extended Kalman filter with dynamic quantization via communication channels", <i>Neurocomputing</i> , 469, 22 October 2021, pp 251-260, doi: <a href="https://doi.org/10.1016/j.neucom.2021.10.066">https://doi.org/10.1016/j.neucom.2021.10.066</a> .   |
| <b>CUI Kangning</b>   | CAMALAN Seda, #CUI Kangning, PAUCA Victor Paul, ALQAHTANI Sarra, SILMAN Miles, CHAN Hon Fu Raymond, PLEMMONS Robert J., DETHIER Evan Nysten, FERNANDEZ Luis E., LUTZ David A., "Change Detection of Amazonian Alluvial Gold Mining Using Deep Learning and Sentinel-2 Imagery", <i>Remote Sensing</i> , 14(7), 05 April 2022, doi: <a href="https://doi.org/10.3390/rs14071746">https://doi.org/10.3390/rs14071746</a> .  |
| <b>GU Diandian</b>    | CHEN Xiaoyi, SHEN Yi, LI Zeyu, #GU Diandian, WANG Jiong, "Generating complex fold patterns through stress-free deformation induced by growth", <i>Journal of the Mechanics and Physics of Solids</i> , 159, 14 November 2021, doi: <a href="https://doi.org/10.1016/j.jmps.2021.104702">https://doi.org/10.1016/j.jmps.2021.104702</a> .  |
|                       | #GU Diandian, DAI Hui-Hui, XU Fan, "Buckling of an elastic layer based on implicit constitution: Incremental theory and numerical framework", <i>International Journal of Engineering Science</i> , 169, 31 August 2021, doi: <a href="https://doi.org/10.1016/j.ijengsci.2021.103568">https://doi.org/10.1016/j.ijengsci.2021.103568</a> .   |
| <b>HUANG Shuo</b>     | FENG Han, #HUANG Shuo, ZHOU Dingxuan, "Generalization Analysis of CNNs for Classification on Spheres", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 23 December 2021, doi: <a href="https://doi.org/10.1109/TNNLS.2021.3134675">https://doi.org/10.1109/TNNLS.2021.3134675</a> .  |
| <b>LI Jianfei</b>     | #LI Jianfei, FENG Han, ZHUANG Xiaosheng, "Convolutional Neural Networks for Spherical Signal Processing via Area-Regular Spherical Haar Tight Framelets", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 29 March 2022, doi: <a href="https://doi.org/10.1109/TNNLS.2022.3160169">https://doi.org/10.1109/TNNLS.2022.3160169</a> .  |
| <b>LIANG Qiantong</b> | #LIANG Qiantong, LO Wing Cheong, "Analysis of Th1/Th2 response pattern with Treg cell inhibition and stochastic effect", <i>Chaos, Solitons and Fractals</i> , 153(Part 1), 25 October 2021, doi: <a href="https://doi.org/10.1016/j.chaos.2021.111472">https://doi.org/10.1016/j.chaos.2021.111472</a> .   |
| <b>LIU Jiamin</b>     | OUYANG Yanyan, #LIU Jiamin, TONG Tiejun, XU Wangli, "A rank-based high-dimensional test for equality of mean vectors", <i>Computational Statistics and Data Analysis</i> , 173, 06 April 2022, doi: <a href="https://doi.org/10.1016/j.csda.2022.107495">https://doi.org/10.1016/j.csda.2022.107495</a> .   |
|                       | #LIU Jiamin, XU Wangli, LIAN Heng, "Convergence rate for nonparametric quantile regression with a total variation penalty", <i>Stat</i> , 10(1), December 2021, doi: <a href="https://doi.org/10.1002/sta4.361">https://doi.org/10.1002/sta4.361</a> .  |
|                       | #LIU Jiamin, XU Wangli, LIN Hongmei, LIAN Heng, "Sketched approximation of regularized canonical correlation analysis", <i>Communications in Statistics - Theory and Methods</i> , 18 May 2022, doi: <a href="https://doi.org/10.1080/03610926.2022.2037644">https://doi.org/10.1080/03610926.2022.2037644</a> .  |
|                       | #LIU Jiamin, MA Shuangge, XU Wangli, ZHU Liping, "A generalized Wilcoxon–Mann–Whitney type test for multivariate data through pairwise distance", <i>Journal of Multivariate Analysis</i> , 190, 25 January 2022, doi: <a href="https://doi.org/10.1016/j.jmva.2022.104946">https://doi.org/10.1016/j.jmva.2022.104946</a> .  |
|                       | #LIU Jiamin, LIAN Heng, "On Optimal Learning With Random Features", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 02 March 2022, doi: <a href="https://doi.org/10.1109/TNNLS.2022.3152270">https://doi.org/10.1109/TNNLS.2022.3152270</a> .  |
| <b>MU Yu</b>          | #MU Yu, LO Wing Cheong, "Bifurcation analysis of a competitive system with general toxic production and delayed toxic effects", <i>Journal of the Franklin Institute</i> , 19 May 2022, doi: <a href="https://doi.org/10.1016/j.jfranklin.2022.05.019">https://doi.org/10.1016/j.jfranklin.2022.05.019</a> .  |
| <b>PENG Wenjian</b>   | #PENG Wenjian, WANG Tian-Yi, "On vanishing pressure limit of continuous solutions to the isentropic Euler equations", <i>Journal of Hyperbolic Differential Equations</i> , 19(2), 01 June 2022, pp 311-336, doi: <a href="https://doi.org/10.1142/S0219891622500084">https://doi.org/10.1142/S0219891622500084</a> .   |
| <b>TANG Shiqi</b>     | LIU Ruhan, WANG Xiangning, WU Qiang, DAI Ling, FANG Xi, YAN Tao, SON Jaemin, #TANG Shiqi, LI Jiang, GAO Zijian, GALDRAN Adrian, POORNESHWARAN J. M., LIU Hao, WANG Jie, CHEN Yerui, PORWAL Prasanna, WEI TAN Gavin Siew, YANG Xiaokang, DAI Chao, SONG Haitao, CHEN Mingang, LI Huating, JIA Weiping, SHEN Dinggang, SHENG Bin, ZHANG Ping, "DeepDRiD: Diabetic Retinopathy—Grading and Image Quality Estimation Challenge", <i>Patterns</i> , 3(6), 10 June 2022, doi: <a href="https://doi.org/10.1016/j.patter.2022.100512">https://doi.org/10.1016/j.patter.2022.100512</a> . |

Section A: Publications of PhD Students

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|---|---|
| <b>WANG Yue</b>                                       | #WANG Yue, ZHANG Weiping, LIAN Heng, "Distributed Partially Linear Additive Models with a High Dimensional Linear Part", <i>IEEE Transactions on Signal and Information Processing over Networks</i> , 7, 10 September 2021, pp 611-625, doi: <a href="https://doi.org/10.1109/TSIPN.2021.3111555">https://doi.org/10.1109/TSIPN.2021.3111555</a> . |
|   | #WANG Yue, ZHOU Yan, LI Rui, LIAN Heng, "Sparse high-dimensional semi-nonparametric quantile regression in a reproducing kernel Hilbert space", <i>Computational Statistics and Data Analysis</i> , 168, 09 November 2021, doi: <a href="https://doi.org/10.1016/j.csda.2021.107388">https://doi.org/10.1016/j.csda.2021.107388</a> .               |
| <b>YU Xiang</b>                                       | CHEN Xiaoyi, PRUCHNICKI Erick, DAI Hui-Hui, #YU Xiang, "A uniform framework for the dynamic behavior of linearized anisotropic elastic rods", <i>Mathematics and Mechanics of Solids</i> , 27(8), 29 June 2022, pp 1429-1454, doi: <a href="https://doi.org/10.1177/10812865221101551">https://doi.org/10.1177/10812865221101551</a> .              |
|   | LI Jiyou, #YU Xiang, "On sums of coefficients of Borwein type polynomials over arithmetic progressions", <i>The Ramanujan Journal</i> , 25 October 2021, doi: <a href="https://doi.org/10.1007/s11139-021-00512-w">https://doi.org/10.1007/s11139-021-00512-w</a> .   |
|   | #YU Xiang, FU Yibin, DAI Hui-Hui, "On propagation of waves in pressurized fiber-reinforced hyperelastic tubes based on a reduced model", <i>Journal of Sound and Vibration</i> , 515, 29 September 2021, doi: <a href="https://doi.org/10.1016/j.jsv.2021.116476">https://doi.org/10.1016/j.jsv.2021.116476</a> .                                   |
| <b>YU Zhan</b>  | #YU Zhan, HO Wing Cheong Daniel, #SHI Zhongjie, ZHOU Dingxuan, "Robust kernel-based distribution regression", <i>Inverse Problems</i> , 37(10), 21 September 2021, doi: <a href="https://doi.org/10.1088/1361-6420/ac23c3">https://doi.org/10.1088/1361-6420/ac23c3</a> .   |
| <b>ZHANG Nan</b>                                      | #ZHANG Nan, LU Ya Yan, "Complex modes in optical fibers and silicon waveguides", <i>Optics Letters</i> , 46(17), 01 September 2021, pp 4410-4413, doi: <a href="https://doi.org/10.1364/OL.434038">https://doi.org/10.1364/OL.434038</a> .  |
| <b>Conference papers</b>                              |   |
| <b>REN Dingchao</b>                                   | #REN Dingchao, XIONG Junlin, HO Wing Cheong Daniel, "Robust state estimation based on multi-kernel correntropy", <i>2022 IEEE 6th Information Technology and Mechatronics Engineering Conference (ITOEC)</i> , Chongqing, China, 04-06 March 2022, pp 500-505, (ISBN: 978-1-6654-3186-6,9781665431859).   |
| <b>XIAO Bo</b>  | #XIAO Bo, #YAO Wuguannan, ZHOU Xiang, "Optimal Option Hedging with Policy Gradient", <i>Proceedings - 21st IEEE International Conference on Data Mining Workshops, ICDMW 2021</i> , Virtual, Auckland, New Zealand, 07-10 December 2021, pp 1112-1119, (ISBN: 9781665424271,9781665424288).   |
| <b>YAO Wuguannan</b>                                  | #XIAO Bo, #YAO Wuguannan, ZHOU Xiang, "Optimal Option Hedging with Policy Gradient", <i>Proceedings - 21st IEEE International Conference on Data Mining Workshops, ICDMW 2021</i> , Virtual, Auckland, New Zealand, 07-10 December 2021, pp 1112-1119, (ISBN: 9781665424271,9781665424288).   |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>YAO Wuguannan</b>                                  | KUO Tei-Wei, #LIU Ziquan, LI Qiao, CHAN Antoni Bert, CUI Yufei, #YAO Wuguannan, XUE Chun Jason, "Artificial Neural Network Configuration And Deployment", Licensing Agreement with Fintech, Hong Kong, 19 May 2022.   |
| <b>All other outputs</b>                              |   |
| <b>REN Dingchao</b>                                   | #REN Dingchao, <i>Robust H Infinity Control and Robust State Learning for Dynamic Systems</i> , PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 31 May 2022.   |
| <b>YAO Wuguannan</b>                                  | #YAO Wuguannan, <i>Bayesian Learning from Unstructured Data: Hierarchical Prior, Inference and Approximation</i> , PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 02 August 2021.   |
| <b>YU Xiang</b>                                       | #YU Xiang, <i>An Asymptotic Shell Model for Incompressible Hyperelastic Materials: Theory and Applications</i> , PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 19 July 2021.   |
| <b>YU Zhan</b>  | #YU Zhan, <i>Some Studies on Distributed Optimization and Learning</i> , PhD Thesis, Department of Mathematics, City University of Hong Kong, Hong Kong, PRC, 05 July 2021.   |
| <b>DEPARTMENT OF PHYSICS</b>                          |   |

## Section A: Publications of PhD Students

| Journal publications    |   |
|-------------------------|---|
| <b>AHMED Syed Bilal</b> | # <a href="#">AHMED Syed Bilal</a> , <a href="#">ULLAH Naeem</a> , <a href="#">ZHAO Yanling</a> , <a href="#">ZHANG Ruiqin</a> , VAN HOVE Michel Andre, "Solvents Hinder the Interlocking Rotation between Molecular Gears, as Revealed by Torque Calculations", <i>Journal of Physical Chemistry C</i> , 125(32), 06 August 2021, pp 17612–17621, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04239">https://doi.org/10.1021/acs.jpcc.1c04239</a> .   |
|                         | # <a href="#">HUSSAIN Iftikhar</a> , <a href="#">HUSSAIN Tanveer</a> , # <a href="#">AHMED Syed Bilal</a> , <a href="#">KAEWMARAYA Thanayut</a> , # <a href="#">AHMAD Muhammad</a> , # <a href="#">CHEN Xi</a> , <a href="#">JAVED Muhammad Sufyan</a> , <a href="#">LAMIEL Charmaine</a> , <a href="#">ZHANG Kaili</a> , "Binder-free trimetallic phosphate nanosheets as an electrode: Theoretical and experimental investigation", <i>Journal of Power Sources</i> , 513, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230556">https://doi.org/10.1016/j.jpowsour.2021.230556</a> .  |
|                         | FAHEEM M. Bilal, # <a href="#">KHAN Bilawal</a> , <a href="#">FENG Chao</a> , # <a href="#">AHMED Syed Bilal</a> , <a href="#">JIANG Jiexuan</a> , <a href="#">REHMAN Mutee-Ur</a> , <a href="#">SUBHANI W. S.</a> , <a href="#">FAROOQ M. U.</a> , <a href="#">NIE Jinlan</a> , <a href="#">MAKHLOUF M. M.</a> , <a href="#">QIAO Quinn</a> , "Synergistic Approach toward Erbium-Passivated Triple-Anion Organic-Free Perovskite Solar Cells with Excellent Performance for Agrivoltaics Application", <i>ACS Applied Materials and Interfaces</i> , 14(5), 31 January 2022, pp 6894-6905, doi: <a href="https://doi.org/10.1021/acsami.1c23476">https://doi.org/10.1021/acsami.1c23476</a> . |
| <b>BAQI Sabah</b>       | # <a href="#">BAQI Sabah</a> , <a href="#">DENG Bei</a> , <a href="#">GUO Yaoguang</a> , <a href="#">ZHANG Ruiqin</a> , "Novel Two-Step Surface Boron Decoration of Graphitic Carbon Nitride Photoelectrodes for Efficient Charge Transport and Separation", <i>Journal of Physical Chemistry C</i> , 125(45), 09 November 2021, pp 25207–25216, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c06864">https://doi.org/10.1021/acs.jpcc.1c06864</a> .   |
|                         | # <a href="#">BAQI Sabah</a> , <a href="#">DENG Bei</a> , # <a href="#">OO May Thawda</a> , <a href="#">ULLAH Naeem</a> , <a href="#">ZHANG Ruiqin</a> , "Collaborative enhancement in charge separation and photon harvesting of 2D/2D heterojunction photocatalysts by horizontal loading of SnS <sub>2</sub> nanosheets on g-CN films", <i>Catalysis Science &amp; Technology</i> , 07 June 2022, doi: <a href="https://doi.org/10.1039/d2cy00849a">https://doi.org/10.1039/d2cy00849a</a> .   |
| <b>CHAN Guo Xuan</b>    | # <a href="#">CHAN Guo Xuan</a> , <a href="#">WANG Xin Sunny</a> , "Microscopic theory of a magnetic-field-tuned sweet spot of exchange interactions in multielectron quantum-dot systems", <i>Physical Review B</i> , 105(24), 14 June 2022, doi: <a href="https://doi.org/10.1103/PhysRevB.105.245409">https://doi.org/10.1103/PhysRevB.105.245409</a> .  |
| <b>CHEN Jialu</b>       | # <a href="#">CHEN Jialu</a> , # <a href="#">XU Wenjun</a> , <a href="#">ZHANG Ruiqin</a> , "A machine learning approach using frequency descriptor for molecular property predictions", <i>New Journal of Chemistry</i> , 45(44), 20 October 2021, pp 20672-20680, doi: <a href="https://doi.org/10.1039/d1nj04739f">https://doi.org/10.1039/d1nj04739f</a> .  |
|                         | # <a href="#">CHEN Jialu</a> , <a href="#">MARKOVITS Alexis</a> , <a href="#">ZHANG Ruiqin</a> , "Peculiar adsorption induced by strong hydrogen bonds on perfect anatase (0 0 1) surface", <i>Applied Surface Science</i> , 594, 13 April 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153397">https://doi.org/10.1016/j.apsusc.2022.153397</a> .   |
|                         | # <a href="#">CHEN Jialu</a> , # <a href="#">XU Wenjun</a> , <a href="#">ZHANG Ruiqin</a> , "Δ-Machine learning-driven discovery of double hybrid organic-inorganic perovskites", <i>Journal of Materials Chemistry A</i> , 10(3), 13 December 2021, pp 1402-1413, doi: <a href="https://doi.org/10.1039/d1ta09911f">https://doi.org/10.1039/d1ta09911f</a> .   |
|                         | # <a href="#">CHEN Jialu</a> , # <a href="#">SUN Liang</a> , <a href="#">ZHANG Ruiqin</a> , "Reaction mechanisms of cyclo[18]carbon and triplet oxygen", <i>Physical Chemistry Chemical Physics</i> , 23(32), 21 July 2021, pp 17545-17552, doi: <a href="https://doi.org/10.1039/d1cp02605d">https://doi.org/10.1039/d1cp02605d</a> .  |
|                         | # <a href="#">CHEN Jialu</a> , # <a href="#">SUN Liang</a> , # <a href="#">WANG Simin</a> , # <a href="#">TIAN Fujia</a> , # <a href="#">ZHU Haoqi</a> , <a href="#">ZHANG Ruiqin</a> , <a href="#">DAI Liang</a> , "Crowding-induced polymer trapping in a channel", <i>Physical Review E</i> , 104(5), 08 November 2021, doi: <a href="https://doi.org/10.1103/PhysRevE.104.054502">https://doi.org/10.1103/PhysRevE.104.054502</a> .   |
|                         | # <a href="#">CHEN Jialu</a> , <a href="#">ZHANG Ruiqin</a> , "Volcano Plots of Reaction Yields in Cross-Coupling Catalysis", <i>Journal of Physical Chemistry Letters</i> , 13(2), 10 January 2022, pp 520-526, doi: <a href="https://doi.org/10.1021/acs.jpcclett.1c04099">https://doi.org/10.1021/acs.jpcclett.1c04099</a> .   |
| <b>CHENG Yuqiong</b>    | # <a href="#">JIA Shiqi</a> , # <a href="#">PENG Jie</a> , # <a href="#">CHENG Yuqiong</a> , <a href="#">WANG Shubo</a> , "Chiral discrimination by polarization singularities of a metal sphere", <i>Physical Review A</i> , 105(3), 17 March 2022, doi: <a href="https://doi.org/10.1103/PhysRevA.105.033513">https://doi.org/10.1103/PhysRevA.105.033513</a> .   |
|                         | <a href="#">SHI Hongkang</a> , # <a href="#">YANG Zheng</a> , # <a href="#">ZHANG Chengzhi</a> , # <a href="#">CHENG Yuqiong</a> , <a href="#">CHEN Yuntian</a> , <a href="#">WANG Shubo</a> , "Robust exceptional point of arbitrary order in coupled spinning cylinders", <i>Optics Express</i> , 29(19), 31 August 2021, pp 29720-29729, doi: <a href="https://doi.org/10.1364/OE.432321">https://doi.org/10.1364/OE.432321</a> .  |
| <b>DONG Weixia</b>      | <a href="#">YING Hui-Qiang</a> , <a href="#">LIU Si-nan</a> , <a href="#">WU Zhenduo</a> , # <a href="#">DONG Weixia</a> , <a href="#">GE Jia-cheng</a> , <a href="#">HAHN Horst</a> , <a href="#">PROVENZANO Virgil</a> , <a href="#">WANG Xun-Li</a> , <a href="#">LAN Si</a> , "Phase selection rule of high-entropy metallic glasses with different short-to-medium-range orders", <i>Rare Metals</i> , 41(6), 07 March 2022, pp 2021–2027, doi: <a href="https://doi.org/10.1007/s12598-022-01973-8">https://doi.org/10.1007/s12598-022-01973-8</a> .  |

Section A: Publications of PhD Students

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|---------------------------|---|
| <b>EZEH Chioma Vivian</b> | <u>EGBO Kingsley Onyekachi</u> , <u>#ADESINA Ayotunde Emmanuel</u> , <u>#EZEH Chioma Vivian</u> , <u>LIU Chaoping</u> , <u>YU Kin Man</u> , "Effects of free carriers on the optical properties of high mobility transition metal doped $\text{In}_2\text{O}_3$ transparent conductors", <i>Physical Review Materials</i> , 5(9), 17 September 2021, doi: <a href="https://doi.org/10.1103/PhysRevMaterials.5.094603">https://doi.org/10.1103/PhysRevMaterials.5.094603</a> .   |
| <b>FU Yuchen</b>          | <u>#ZHAO Sai</u> , <u>ZHANG Junyan</u> , <u>#FU Yuchen</u> , <u>ZHU Shipei</u> , <u>SHUM Ho Cheung</u> , <u>LIU Xubo</u> , <u>WANG Zhaoyu</u> , <u>YE Ruquan</u> , <u>TANG Ben Zhong</u> , <u>RUSSELL Thomas P.</u> , <u>CHAI Yu</u> , "Shape-Reconfigurable Ferrofluids", <i>Nano Letters</i> , 22(13), 29 June 2022, pp 5538-5543, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c01721">https://doi.org/10.1021/acs.nanolett.2c01721</a> .   |
| <b>HO Chun Yuen</b>       | <u>#HO Chun Yuen</u> , <u>WANG Ying</u> , <u>LIU Chaoping</u> , <u>YU Kin Man</u> , "Controlling electrical and optical properties of wurtzite $\text{Cd}_x\text{Zn}_{1-x}\text{O}$ with high Cd contents via native defects manipulation by low-temperature annealing", <i>Journal of Applied Physics</i> , 131(17), 04 May 2022, doi: <a href="https://doi.org/10.1063/5.0091233">https://doi.org/10.1063/5.0091233</a> .   |
|                           | <u>LIU Chaoping</u> , <u>LI Zhan Hua</u> , <u>EGBO Kingsley Onyekachi</u> , <u>#KWOK Cheuk Kai Gary</u> , <u>LV Xiao Hu</u> , <u>#HO Chun Yuen</u> , <u>WANG Ying</u> , <u>YU Kin Man</u> , "Effects of oxygen flow ratio and thermal annealing on defect evolution of aluminum doped zinc oxide thin films by reactive DC magnetron sputtering", <i>Journal of Physics Condensed Matter</i> , 33(46), 03 September 2021, doi: <a href="https://doi.org/10.1088/1361-648X/ac1f50">https://doi.org/10.1088/1361-648X/ac1f50</a> .  |
|                           | <u>#HO Chun Yuen</u> , <u>LI Chia Hsiang</u> , <u>LIU Chaoping</u> , <u>HUANG Zhi-Quan</u> , <u>CHUANG Feng-Chuan</u> , <u>YU Kin Man</u> , "Doping limitation due to self-compensation by native defects in In-doped rocksalt $\text{Cd}_x\text{Zn}_{1-x}\text{O}$ ", <i>Journal of Physics Condensed Matter</i> , 34(6), 19 November 2021, doi: <a href="https://doi.org/10.1088/1361-648X/ac3585">https://doi.org/10.1088/1361-648X/ac3585</a> .   |
| <b>HUANG Chao</b>         | <u>#LIU Liangliang</u> , <u>#RUAN Qingdong</u> , <u>WU Zhongzhen</u> , <u>LI Tijun</u> , <u>ZUO Wei</u> , <u>#HUANG Chao</u> , <u>#WU Yuzheng</u> , <u>WU Zhongcan</u> , <u>FU King Yu</u> , <u>CHU Paul Kim Ho</u> , "Hard and tough CrN coatings strengthened by high-density distorted coherent grain boundaries", <i>Journal of Alloys and Compounds</i> , 894, 28 September 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.162139">https://doi.org/10.1016/j.jallcom.2021.162139</a> .   |
|                           | <u>#LI Dan</u> , <u>#ZHANG Yuefeng</u> , <u>ZHOU Xiaomin</u> , <u>#HUANG Chao</u> , <u>WEN Ying</u> , <u>#LIU Liangliang</u> , <u>LI Qingwei</u> , <u>XU Yue</u> , <u>#WU Yuzheng</u> , <u>#RUAN Qingdong</u> , <u>MA Yinghe</u> , <u>XIONG Fangyu</u> , <u>#XIAO Dezhi</u> , <u>#LIU Pei</u> , <u>WANG Guomin</u> , <u>MEHRJOU Babak</u> , <u>WANG Bin</u> , <u>LI Hao</u> , <u>CHEN Rongsheng</u> , <u>NI Hongwei</u> , <u>ZENG Zhiyuan</u> , <u>CHU Paul Kim Ho</u> , "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                           | <u>#LIU Liangliang</u> , <u>#RUAN Qingdong</u> , <u>XIAO Shu</u> , <u>MENG Xinyu</u> , <u>#HUANG Chao</u> , <u>#WU Yuzheng</u> , <u>FU King Yu</u> , <u>CHU Paul Kim Ho</u> , "Fabrication and hydrogen permeation resistance of dense CrN coatings", <i>Surface and Coatings Technology</i> , 437, 10 March 2022, doi: <a href="https://doi.org/10.1016/j.surfcoat.2022.128326">https://doi.org/10.1016/j.surfcoat.2022.128326</a> .   |
|                           | <u>#HUANG Chao</u> , <u>QIN Ping</u> , <u>#LI Dan</u> , <u>#RUAN Qingdong</u> , <u>SONG Hao</u> , <u>#LIU Liangliang</u> , <u>#WU Yuzheng</u> , <u>MA Yinghe</u> , <u>LI Qingwei</u> , <u>HUO Kaifu</u> , <u>CHU Paul Kim Ho</u> , "Origin of superior pseudocapacitive mechanism of transition metal nitrides", <i>Journal of Energy Chemistry</i> , 69, 03 February 2022, pp 561-568, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.041">https://doi.org/10.1016/j.jechem.2022.01.041</a> .  |
|                           | <u>#WU Yuzheng</u> , <u>#RUAN Qingdong</u> , <u>#HUANG Chao</u> , <u>LIAO Qing</u> , <u>#LIU Liangliang</u> , <u>#LIU Pei</u> , <u>MO Shi</u> , <u>WANG Guomin</u> , <u>WANG Huaiyu</u> , <u>CHU Paul Kim Ho</u> , "Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation", <i>Materials Science and Engineering C</i> , 134, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.msec.2022.112701">https://doi.org/10.1016/j.msec.2022.112701</a> .   |
|                           | <u>QIN Ping</u> , <u>SONG Hao</u> , <u>#RUAN Qingdong</u> , <u>HUANG Zhifeng</u> , <u>XU Yue</u> , <u>#HUANG Chao</u> , "Direct observation of dynamic surface reconstruction and active phases on honeycomb $\text{Ni}_3\text{N-Co}_3\text{N/CC}$ for oxygen evolution reaction", <i>Science China Materials</i> , 65(9), 25 April 2022, pp 2445-2452, doi: <a href="https://doi.org/10.1007/s40843-021-1995-4">https://doi.org/10.1007/s40843-021-1995-4</a> .  |
|                           | <u>LUO Yang</u> , <u>WU Yinghong</u> , <u>#HUANG Chao</u> , <u>MENON Carlo</u> , <u>FENG Shien Ping</u> , <u>CHU Paul Kim Ho</u> , "Plasma modified and tailored defective electrocatalysts for water electrolysis and hydrogen fuel cells", <i>EcoMat</i> , 07 March 2022, doi: <a href="https://doi.org/10.1002/eom2.12197">https://doi.org/10.1002/eom2.12197</a> .  |
|                           | <u>CHEN Xufang</u> , <u>#LI Dan</u> , <u>LI Yang</u> , <u>ZHAN Weiting</u> , <u>#HUANG Chao</u> , <u>CHEN Rongsheng</u> , <u>WANG Wei</u> , <u>NI Hongwei</u> , <u>CHU Paul Kim Ho</u> , "Short-brush $\text{NiFeO}_x\text{H}_y$ films and the Pt derivative as high-performance electrode materials for efficient electrocatalytic water splitting",   |



## Section A: Publications of PhD Students

|                                   |  |
|-----------------------------------|--|
|                                   | <p><i>Applied Surface Science</i>, 574, 28 October 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151636">https://doi.org/10.1016/j.apsusc.2021.151636</a>.</p>   |
|                                   | <p>PENG Xinyan, #HUANG Chao, DAI Jun, LIU Yunhong, "Uniform cobalt grafted on vanadium nitride as a high efficient oxygen evolution reaction catalyst", <i>International Journal of Hydrogen Energy</i>, 47(7), 08 December 2021, pp 4386-4393, doi: <a href="https://doi.org/10.1016/j.ijhydene.2021.11.120">https://doi.org/10.1016/j.ijhydene.2021.11.120</a>.</p>  |
|                                   | <p>#HUANG Chao, QIN Ping, LUO Yang, #RUAN Qingdong, #LIU Liangliang, #WU Yuzheng, <u>LI Qingwei</u>, XU Yue, LIU Rugeng, <u>CHU Paul Kim Ho</u>, "Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics", <i>Materials Today Energy</i>, 23, 26 November 2021, doi: <a href="https://doi.org/10.1016/j.mtener.2021.100911">https://doi.org/10.1016/j.mtener.2021.100911</a>.</p>  |
|                                   | <p>TANG Jing, #HUANG Chao, WU Qidi, CUI Ailin, LI Weijun, "Atomic-scale intercalation of N-doped carbon into monolayered MoSe<sub>2</sub>-Mo<sub>2</sub>C heterojunction as a highly efficiency hydrogen evolution reaction catalyst", <i>Journal of Electroanalytical Chemistry</i>, 906, 19 November 2021, doi: <a href="https://doi.org/10.1016/j.jelechem.2021.115897">https://doi.org/10.1016/j.jelechem.2021.115897</a>.</p>   |
|                                   | <p>#LIU Liangliang, #RUAN Qingdong, WU Zhongzhen, #LI Dan, #HUANG Chao, #WU Yuzheng, LI Tijun, WU Zhongcan, TIAN Xiubo, <u>FU King Yu</u>, <u>CHU Paul Kim Ho</u>, "Fabrication and cutting performance of CrAlN/CrAl multilayer coatings deposited by continuous high-power magnetron sputtering", <i>Ceramics International</i>, 48(10), 04 February 2022, pp 14528-14536, doi: <a href="https://doi.org/10.1016/j.ceramint.2022.01.346">https://doi.org/10.1016/j.ceramint.2022.01.346</a>.</p>             |
| <b>HUANG Ke</b>                   | <p>VU DinhDuy, #HUANG Ke, <u>LI Xiao</u>, DAS SARMA Sankar, "Fermionic Many-Body Localization for Random and Quasiperiodic Systems in the Presence of Short- and Long-Range Interactions", <i>Physical Review Letters</i>, 128(14), 06 April 2022, doi: <a href="https://doi.org/10.1103/PhysRevLett.128.146601">https://doi.org/10.1103/PhysRevLett.128.146601</a>.</p>   |
|                                   | <p>XIA Xu, #HUANG Ke, <u>WANG Shubo</u>, <u>LI Xiao</u>, "Exact mobility edges in the non-Hermitian <math>t_1</math>-<math>t_2</math> model: Theory and possible experimental realizations", <i>Physical Review B</i>, 105(1), 31 January 2022, doi: <a href="https://doi.org/10.1103/PhysRevB.105.014207">https://doi.org/10.1103/PhysRevB.105.014207</a>.</p>  |
|                                   | <p>#HUANG Ke, WANG Yu, <u>LI Xiao</u>, "Stability of scar states in the two-dimensional PXP model against random disorder", <i>Physical Review B</i>, 104(21), 01 December 2021, doi: <a href="https://doi.org/10.1103/PhysRevB.104.214305">https://doi.org/10.1103/PhysRevB.104.214305</a>.</p>   |
| <b>HUANG Yalan</b>                | <p>ZHU He, YAO Zhenpeng, #ZHU Hekang, #HUANG Yalan, <u>ZHANG Jian</u>, LI Cheng Chao, WIADEREK Kamila M., <u>REN Yang</u>, SUN Cheng-Jun, ZHOU Hua, FAN Longlong, CHEN Yanan, XIA Hui, GU Lin, LAN Si, <u>LIU Qi</u>, "Unblocking Oxygen Charge Compensation for Stabilized High-Voltage Structure in P2-Type Sodium-Ion Cathode", <i>Advanced Science</i>, 28 March 2022, doi: <a href="https://doi.org/10.1002/advs.202200498">https://doi.org/10.1002/advs.202200498</a>.</p>                               |
|                                   | <p>LIU Zhengbo, SHEN Jiadong, FENG Shihui, #HUANG Yalan, WU Duojie, LI Fangkun, ZHU Yuanmin, GU Meng, <u>LIU Qi</u>, LIU Jun, ZHU Min, "Ultralow Volume Change of P2-Type Layered Oxide Cathode for Na-Ion Batteries with Controlled Phase Transition by Regulating Distribution of Na<sup>+</sup>", <i>Angewandte Chemie - International Edition</i>, 60(38), 13 July 2021, pp 20960–20969, doi: <a href="https://doi.org/10.1002/anie.202108109">https://doi.org/10.1002/anie.202108109</a>.</p>             |
|                                   | <p>XUE Liang, ZHANG Qinghua, #HUANG Yalan, <u>ZHU He</u>, XU Lili, GUO Shiyong, ZHU Xiaohui, LIU Hanghui, HUANG Yin, HUANG Jiangfeng, LU Lude, ZHANG Shengli, GU Lin, <u>LIU Qi</u>, ZHU Junwu, XIA Hui, "Stabilizing Layered Structure in Aqueous Electrolyte via Dynamic Water Intercalation/Deintercalation", <i>Advanced Materials</i>, 34(13), 18 February 2022, doi: <a href="https://doi.org/10.1002/adma.202108541">https://doi.org/10.1002/adma.202108541</a>.</p>                                    |
| <b>ILYAS Abdul-mojeed Olabisi</b> | <p>MUSAH Jamal-Deen, #LIU Linlin, #GUO Chen, NOVITSKII Andrei, #ILYAS Abdul-mojeed Olabisi, SERHIENKO Illia, KHOVAYLO Vladimir, VELLAISAMY Arul Lenus Roy, <u>WU Lawrence</u>, "Enhanced Thermoelectric Performance of Bulk Bismuth Selenide: Synergistic Effect of Indium and Antimony Co-doping", <i>ACS Sustainable Chemistry and Engineering</i>, 10(12), 15 March 2022, pp 3862–3871, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c07256">https://doi.org/10.1021/acssuschemeng.1c07256</a>.</p> |
| <b>IMRAN AI</b>                   | <p>#GUNAWAN Renardi, #IMRAN AI, AHMED Irfan, #LIU Yuanchao, CHU Yanwu, GUO Lianbo, <u>YANG M</u>, <u>LAU Condon</u>, "FROZEN! Intracellular multi-electrolyte analysis measures millimolar lithium in mammalian cells", <i>Analyst</i>, 146(16), 02 July 2021, pp 5186–5197, doi: <a href="https://doi.org/10.1039/D1AN00806D">https://doi.org/10.1039/D1AN00806D</a>.</p>   |

Section A: Publications of PhD Students

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| <b>JIA Shiqi</b>             | # <a href="#">JIA Shiqi</a> , # <a href="#">PENG Jie</a> , # <a href="#">CHENG Yuqiong</a> , <a href="#">WANG Shubo</a> , "Chiral discrimination by polarization singularities of a metal sphere", <i>Physical Review A</i> , 105(3), 17 March 2022, doi: <a href="https://doi.org/10.1103/PhysRevA.105.033513">https://doi.org/10.1103/PhysRevA.105.033513</a> .   |
|                              | # <a href="#">PENG Jie</a> , # <a href="#">JIA Shiqi</a> , # <a href="#">ZHANG Chengzhi</a> , <a href="#">WANG Shubo</a> , "Optical force and torque on small particles induced by polarization singularities", <i>Optics Express</i> , 30(10), 28 April 2022, pp 16489-16498, doi: <a href="https://doi.org/10.1364/OE.458060">https://doi.org/10.1364/OE.458060</a> .   |
| <b>KAN Hei Wun</b>           | <a href="#">ZHU Yinghao</a> , <a href="#">XIA Junchao</a> , <a href="#">WU Si</a> , <a href="#">SUN Kaitong</a> , # <a href="#">YANG Yuewen</a> , <a href="#">ZHAO Yanling</a> , # <a href="#">KAN Hei Wun</a> , <a href="#">ZHANG Yang</a> , <a href="#">WANG Ling</a> , <a href="#">WANG Hui</a> , <a href="#">FANG Jinghong</a> , <a href="#">WANG Chaoyue</a> , <a href="#">WU Tong</a> , <a href="#">SHI Yun</a> , <a href="#">YU Jianding</a> , <a href="#">ZHANG Ruiqin</a> , <a href="#">LI Hai-Feng</a> , "Crystal growth engineering and origin of the weak ferromagnetism in antiferromagnetic matrix of orthochromates from <i>t-e</i> orbital hybridization", <i>iScience</i> , 25(4), 18 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104111">https://doi.org/10.1016/j.isci.2022.104111</a> . |
| <b>KHAN Muhammad Shehzad</b> | <a href="#">AHMAD Syed Umair</a> , # <a href="#">KHAN Muhammad Shehzad</a> , <a href="#">JAN Zainab</a> , <a href="#">KHAN Nayab</a> , <a href="#">ALI Asif</a> , <a href="#">REHMAN Naumana</a> , <a href="#">HAQ Mohsina</a> , <a href="#">KHAN Umama</a> , <a href="#">BASHIR Zohaib</a> , <a href="#">TAYYAB Muhammad</a> , <a href="#">HAQ Ihteshamul</a> , <a href="#">BAKHT Shumaila</a> , <a href="#">ZAHIR Fazli</a> , "Genome wide association study and phylogenetic analysis of novel SARS-COV-2 virus among different countries", <i>Pakistan Journal of Pharmaceutical Sciences</i> , 34(4), July 2021, pp 1305-1313, doi: <a href="https://doi.org/10.36721/PJPS.2021.34.4.REG.1305-1313.1">https://doi.org/10.36721/PJPS.2021.34.4.REG.1305-1313.1</a> .  |
|                              | <a href="#">MANNO Francis Anthony Michael</a> , <a href="#">KUMAR Rachit</a> , <a href="#">AN Ziqi</a> , # <a href="#">KHAN Muhammad Shehzad</a> , <a href="#">SU Junfeng</a> , <a href="#">LIU Jiaming</a> , <a href="#">WU Ed X.</a> , # <a href="#">HE Jufang</a> , <a href="#">FENG Yanqiu</a> , <a href="#">LAU Condon</a> , "Structural and Functional Hippocampal Correlations in Environmental Enrichment During the Adolescent to Adulthood Transition in Mice", <i>Frontiers in Systems Neuroscience</i> , 15, 15 February 2022, doi: <a href="https://doi.org/10.3389/fnsys.2021.807297">https://doi.org/10.3389/fnsys.2021.807297</a> .   |
|                              | <a href="#">JAN Zainab</a> , # <a href="#">KHAN Muhammad Shehzad</a> , <a href="#">AHMAD Syed Umair</a> , <a href="#">SAADIA Haleema</a> , <a href="#">ULLAH Irfan</a> , <a href="#">SAID Asad</a> , <a href="#">ULLAH Hikmat</a> , <a href="#">KHAN Muhammad Shahzeb</a> , <a href="#">KHAN Hira</a> , <a href="#">KHAN Muhammad Kamran</a> , "Evaluation of Cyclin-Dependent Kinase Inhibitor Signalling network in esophageal Adenocarcinoma Via computational and statistical approaches", <i>Bioscience Research</i> , 18(3), 25 July 2021, pp 2022-2029.  |
| <b>KWOK Cheuk Kai Gary</b>   | <a href="#">WANG Ying</a> , <a href="#">LI Menglin</a> , <a href="#">FAN Baobing</a> , # <a href="#">WONG Yeung Sum</a> , <a href="#">LO Chung Yan</a> , # <a href="#">KWOK Cheuk Kai Gary</a> , # <a href="#">SHIL Sujit Kumer</a> , <a href="#">YIP Hin Lap</a> , <a href="#">JEN Alex</a> , <a href="#">TSANG Sai Wing</a> , <a href="#">YU Kin Man</a> , "Flexibility of Room-Temperature-Synthesized Amorphous CdO-In <sub>2</sub> O <sub>3</sub> Alloy Films and Their Application as Transparent Conductors in Solar Cells", <i>ACS Applied Materials and Interfaces</i> , 13(36), 31 August 2021, pp 43795-43805, doi: <a href="https://doi.org/10.1021/acsami.1c14722">https://doi.org/10.1021/acsami.1c14722</a> .  |
|                              | <a href="#">LIU Chaoping</a> , <a href="#">LI Zhan Hua</a> , <a href="#">EGBO Kingsley Onyekachi</a> , # <a href="#">KWOK Cheuk Kai Gary</a> , <a href="#">LV Xiao Hu</a> , # <a href="#">HO Chun Yuen</a> , <a href="#">WANG Ying</a> , <a href="#">YU Kin Man</a> , "Effects of oxygen flow ratio and thermal annealing on defect evolution of aluminum doped zinc oxide thin films by reactive DC magnetron sputtering", <i>Journal of Physics Condensed Matter</i> , 33(46), 03 September 2021, doi: <a href="https://doi.org/10.1088/1361-648X/ac1f50">https://doi.org/10.1088/1361-648X/ac1f50</a> .  |
|                              | # <a href="#">KWOK Cheuk Kai Gary</a> , <a href="#">LIU Chaoping</a> , <a href="#">YU Kin Man</a> , "Amorphous CdO-In <sub>2</sub> O <sub>3</sub> alloy thin films with high conductivity and transparency synthesized by sol-gel method", <i>Journal of Alloys and Compounds</i> , 893, 16 October 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.162341">https://doi.org/10.1016/j.jallcom.2021.162341</a> .  |
|                              | <a href="#">WANG Ying</a> , # <a href="#">KWOK Cheuk Kai Gary</a> , # <a href="#">XIAO Dezhi</a> , <a href="#">ZHU Jiuzhou</a> , <a href="#">SHU Xingyu</a> , <a href="#">PING LIU Chao</a> , <a href="#">YU Kin Man</a> , "Improving the <i>p</i> -type conductivity of Cu <sub>2</sub> O thin films by Ni doping and their heterojunction with <i>n</i> -ZnO", <i>Applied Surface Science</i> , 590, 18 March 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153047">https://doi.org/10.1016/j.apsusc.2022.153047</a> .  |
| <b>LAN Xuli</b>              | <a href="#">TENG Guocui</a> , <a href="#">ZHENG Chuanfeng</a> , <a href="#">CHEN Xiangyin</a> , # <a href="#">LAN Xuli</a> , <a href="#">ZHU Yimo</a> , <a href="#">SHAN Chao</a> , "Numerical fracture investigation of single-edge notched asphalt concrete beam based on random heterogeneous FEM model", <i>Construction and Building Materials</i> , 304, 26 August 2021, doi: <a href="https://doi.org/10.1016/j.conbuildmat.2021.124581">https://doi.org/10.1016/j.conbuildmat.2021.124581</a> .   |
|                              | # <a href="#">LAN Xuli</a> , <a href="#">ZENG Xiao-hui</a> , <a href="#">ZHU Hua-sheng</a> , <a href="#">LONG Guang-cheng</a> , <a href="#">XIE You-jun</a> , "Experimental investigation on fractal characteristics of pores in air-entrained concrete at low atmospheric pressure", <i>Cement and Concrete Composites</i> , 130, 02 April 2022, doi: <a href="https://doi.org/10.1016/j.cemconcomp.2022.104509">https://doi.org/10.1016/j.cemconcomp.2022.104509</a> .  |

## Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
| <b>LI Junning</b>     | SONG Yao, #LI Junning, HAI Yong-Ju, GUO Qihao, DENG Xiu-Hao, "Optimizing quantum control pulses with complex constraints and few variables through autodifferentiation", <i>Physical Review A</i> , 105(1), 31 January 2022, doi: <a href="https://doi.org/10.1103/PhysRevA.105.012616">https://doi.org/10.1103/PhysRevA.105.012616</a> .   |
| <b>LIU Liangliang</b> | #LIU Liangliang, #RUAN Qingdong, WU Zhongzhen, LI Tijun, ZUO Wei, #HUANG Chao, #WU Yuzheng, WU Zhongcan, FU King Yu, CHU Paul Kim Ho, "Hard and tough CrN coatings strengthened by high-density distorted coherent grain boundaries", <i>Journal of Alloys and Compounds</i> , 894, 28 September 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.162139">https://doi.org/10.1016/j.jallcom.2021.162139</a> .   |
|                       | #LI Dan, #ZHANG Yuefeng, ZHOU Xiaomin, #HUANG Chao, WEN Ying, #LIU Liangliang, LI Qingwei, XU Yue, #WU Yuzheng, #RUAN Qingdong, MA Yinghe, XIONG Fangyu, #XIAO Dezhi, #LIU Pei, WANG Guomin, MEHRJOU Babak, WANG Bin, LI Hao, CHEN Rongsheng, NI Hongwei, ZENG Zhiyuan, CHU Paul Kim Ho, "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                       | #LIU Liangliang, #RUAN Qingdong, XIAO Shu, MENG Xinyu, #HUANG Chao, #WU Yuzheng, FU King Yu, CHU Paul Kim Ho, "Fabrication and hydrogen permeation resistance of dense CrN coatings", <i>Surface and Coatings Technology</i> , 437, 10 March 2022, doi: <a href="https://doi.org/10.1016/j.surfcoat.2022.128326">https://doi.org/10.1016/j.surfcoat.2022.128326</a> .   |
|                       | #HUANG Chao, QIN Ping, #LI Dan, #RUAN Qingdong, SONG Hao, #LIU Liangliang, #WU Yuzheng, MA Yinghe, LI Qingwei, HUO Kaifu, CHU Paul Kim Ho, "Origin of superior pseudocapacitive mechanism of transition metal nitrides", <i>Journal of Energy Chemistry</i> , 69, 03 February 2022, pp 561-568, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.041">https://doi.org/10.1016/j.jechem.2022.01.041</a> .  |
|                       | #WU Yuzheng, #RUAN Qingdong, #HUANG Chao, LIAO Qing, #LIU Liangliang, #LIU Pei, MO Shi, WANG Guomin, WANG Huaiyu, CHU Paul Kim Ho, "Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation", <i>Materials Science and Engineering C</i> , 134, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.msec.2022.112701">https://doi.org/10.1016/j.msec.2022.112701</a> .   |
|                       | #HUANG Chao, QIN Ping, LUO Yang, #RUAN Qingdong, #LIU Liangliang, #WU Yuzheng, LI Qingwei, XU Yue, LIU Rugeng, CHU Paul Kim Ho, "Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics", <i>Materials Today Energy</i> , 23, 26 November 2021, doi: <a href="https://doi.org/10.1016/j.mtener.2021.100911">https://doi.org/10.1016/j.mtener.2021.100911</a> .  |
|                       | #LIU Liangliang, #RUAN Qingdong, WU Zhongzhen, #LI Dan, #HUANG Chao, #WU Yuzheng, LI Tijun, WU Zhongcan, TIAN Xiubo, FU King Yu, CHU Paul Kim Ho, "Fabrication and cutting performance of CrAlN/CrAl multilayer coatings deposited by continuous high-power magnetron sputtering", <i>Ceramics International</i> , 48(10), 04 February 2022, pp 14528-14536, doi: <a href="https://doi.org/10.1016/j.ceramint.2022.01.346">https://doi.org/10.1016/j.ceramint.2022.01.346</a> .   |
| <b>LIU Pei</b>        | #LI Dan, #ZHANG Yuefeng, ZHOU Xiaomin, #HUANG Chao, WEN Ying, #LIU Liangliang, LI Qingwei, XU Yue, #WU Yuzheng, #RUAN Qingdong, MA Yinghe, XIONG Fangyu, #XIAO Dezhi, #LIU Pei, WANG Guomin, MEHRJOU Babak, WANG Bin, LI Hao, CHEN Rongsheng, NI Hongwei, ZENG Zhiyuan, CHU Paul Kim Ho, "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                       | #WU Yuzheng, #RUAN Qingdong, #HUANG Chao, LIAO Qing, #LIU Liangliang, #LIU Pei, MO Shi, WANG Guomin, WANG Huaiyu, CHU Paul Kim Ho, "Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation", <i>Materials Science and Engineering C</i> , 134, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.msec.2022.112701">https://doi.org/10.1016/j.msec.2022.112701</a> .   |
|                       | #LIU Pei, #WU Yuzheng, MEHRJOU Babak, #TANG Kaiwei, WANG Guomin, CHU Paul Kim Ho, "Versatile Phenol-Incorporated Nanoframes for In Situ Antibacterial Activity Based on Oxidative and Physical Damages", <i>Advanced Functional Materials</i> , 32(17), 04 March 2022, doi: <a href="https://doi.org/10.1002/adfm.202110635">https://doi.org/10.1002/adfm.202110635</a> .   |
| <b>LIU Yuanchao</b>   | #GUNAWAN Renardi, #IMRAN Al, AHMED Irfan, #LIU Yuanchao, CHU Yanwu, GUO Lianbo, YANG M, LAU Condon, "FROZEN! Intracellular multi-electrolyte analysis   |

## Section A: Publications of PhD Students

|                             |   |
|-----------------------------|---|
|                             | measures millimolar lithium in mammalian cells", <i>Analyst</i> , 146(16), 02 July 2021, pp 5186–5197, doi: <a href="https://doi.org/10.1039/D1AN00806D">https://doi.org/10.1039/D1AN00806D</a> .   |
|                             | # <a href="#">LIU Yuanchao</a> , <a href="#">ZHOU Binbin</a> , <a href="#">WANG Weiliang</a> , # <a href="#">SHEN Junda</a> , <a href="#">KOU Weiping</a> , <a href="#">LI Zebiao</a> , <a href="#">ZHANG Deng</a> , <a href="#">GUO Lianbo</a> , <a href="#">LAU Condon</a> , <a href="#">LU Jian</a> , "Insertable, scabbarded, and nanoetched silver needle sensor for hazardous element depth profiling by laser-induced breakdown spectroscopy", <i>ACS Sensors</i> , 7(5), 18 May 2022, pp 1381–1389, doi: <a href="https://doi.org/10.1021/acssensors.2c00017">https://doi.org/10.1021/acssensors.2c00017</a> .  |
| <b>LU Chenyu</b>            | <a href="#">LIU Sinan</a> , <a href="#">GE Jiacheng</a> , <a href="#">YING Huiqing</a> , # <a href="#">LIU Chenyu</a> , <a href="#">MA Dong</a> , <a href="#">WANG Xun-Li</a> , <a href="#">ZUO Xiaobing</a> , <a href="#">REN Yang</a> , <a href="#">FENG Tao</a> , <a href="#">SHEN Jun</a> , <a href="#">HAHN Horst</a> , <a href="#">LAN Si</a> , "In Situ Scattering Studies of Crystallization Kinetics in a Phase-Separated Zr–Cu–Fe–Al Bulk Metallic Glass", <i>Acta Metallurgica Sinica (English Letters)</i> , 35(1), 25 August 2021, pp 103-114, doi: <a href="https://doi.org/10.1007/s40195-021-01304-3">https://doi.org/10.1007/s40195-021-01304-3</a> .  |
| <b>MARASHLI Mohamad Ali</b> | <a href="#">TANG Ho-Kin</a> , # <a href="#">MARASHLI Mohamad Ali</a> , <a href="#">YU Wing Chi</a> , "Unveiling quantum phase transitions by fidelity mapping", <i>Physical Review B</i> , 104(7), 23 August 2021, doi: <a href="https://doi.org/10.1103/PhysRevB.104.075142">https://doi.org/10.1103/PhysRevB.104.075142</a> .   |
| <b>OO May Thawda</b>        | # <a href="#">BAQI Sabah</a> , <a href="#">DENG Bei</a> , # <a href="#">OO May Thawda</a> , <a href="#">ULLAH Naeem</a> , <a href="#">ZHANG Ruiqin</a> , "Collaborative enhancement in charge separation and photon harvesting of 2D/2D heterojunction photocatalysts by horizontal loading of SnS <sub>2</sub> nanosheets on g-CN films", <i>Catalysis Science &amp; Technology</i> , 07 June 2022, doi: <a href="https://doi.org/10.1039/d2cy00849a">https://doi.org/10.1039/d2cy00849a</a> .   |
| <b>PENG Jie</b>             | # <a href="#">JIA Shiqi</a> , # <a href="#">PENG Jie</a> , # <a href="#">CHENG Yuqiong</a> , <a href="#">WANG Shubo</a> , "Chiral discrimination by polarization singularities of a metal sphere", <i>Physical Review A</i> , 105(3), 17 March 2022, doi: <a href="https://doi.org/10.1103/PhysRevA.105.033513">https://doi.org/10.1103/PhysRevA.105.033513</a> .   |
|                             | # <a href="#">PENG Jie</a> , # <a href="#">JIA Shiqi</a> , # <a href="#">ZHANG Chengzhi</a> , <a href="#">WANG Shubo</a> , "Optical force and torque on small particles induced by polarization singularities", <i>Optics Express</i> , 30(10), 28 April 2022, pp 16489-16498, doi: <a href="https://doi.org/10.1364/OE.458060">https://doi.org/10.1364/OE.458060</a> .   |
| <b>QIU Qiyuan</b>           | <a href="#">QIU Genlong</a> , # <a href="#">QIU Qiyuan</a> , <a href="#">QING Leying</a> , <a href="#">ZHOU Jingmin</a> , <a href="#">XU Xiaofei</a> , <a href="#">ZHAO Shuangliang</a> , "Effects of Polyelectrolyte Surface Coating on the Energy Storage Performance in Supercapacitors", <i>Journal of Physical Chemistry C</i> , 126(19), 09 May 2022, pp 8218–8226, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c10956">https://doi.org/10.1021/acs.jpcc.1c10956</a> .  |
|                             | # <a href="#">ZHU Yongjian</a> , # <a href="#">ZHU Haoqi</a> , # <a href="#">TIAN Fujia</a> , # <a href="#">QIU Qiyuan</a> , <a href="#">DAI Liang</a> , "Quantifying the effects of slit confinement on polymer knots using the tube model", <i>Physical Review E</i> , 105(2), 09 February 2022, doi: <a href="https://doi.org/10.1103/PhysRevE.105.024501">https://doi.org/10.1103/PhysRevE.105.024501</a> .   |
| <b>REN Jincan</b>           | <a href="#">ZHU He</a> , # <a href="#">TANG Yu</a> , <a href="#">WIADEREK Kamila M.</a> , <a href="#">BORKIEWICZ Olaf J.</a> , <a href="#">REN Yang</a> , <a href="#">ZHANG Jian</a> , # <a href="#">REN Jincan</a> , <a href="#">FAN Longlong</a> , <a href="#">LI Cheng Chao</a> , <a href="#">LI Danfeng Denver</a> , <a href="#">WANG Xun-Li</a> , <a href="#">LIU Qi</a> , "Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode", <i>Nano Letters</i> , 21(23), 23 November 2021, pp 9997–10005, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c03613">https://doi.org/10.1021/acs.nanolett.1c03613</a> .   |
| <b>RUAN Qingdong</b>        | # <a href="#">LIU Liangliang</a> , # <a href="#">RUAN Qingdong</a> , <a href="#">WU Zhongzhen</a> , <a href="#">LI Tijun</a> , <a href="#">ZUO Wei</a> , # <a href="#">HUANG Chao</a> , # <a href="#">WU Yuzheng</a> , <a href="#">WU Zhongcan</a> , <a href="#">FU King Yu</a> , <a href="#">CHU Paul Kim Ho</a> , "Hard and tough CrN coatings strengthened by high-density distorted coherent grain boundaries", <i>Journal of Alloys and Compounds</i> , 894, 28 September 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.162139">https://doi.org/10.1016/j.jallcom.2021.162139</a> .   |
|                             | # <a href="#">LI Dan</a> , # <a href="#">ZHANG Yuefeng</a> , <a href="#">ZHOU Xiaomin</a> , # <a href="#">HUANG Chao</a> , <a href="#">WEN Ying</a> , # <a href="#">LIU Liangliang</a> , <a href="#">LI Qingwei</a> , <a href="#">XU Yue</a> , # <a href="#">WU Yuzheng</a> , # <a href="#">RUAN Qingdong</a> , <a href="#">MA Yinghe</a> , <a href="#">XIONG Fangyu</a> , # <a href="#">XIAO Dezhi</a> , # <a href="#">LIU Pei</a> , <a href="#">WANG Guomin</a> , <a href="#">MEHRJOU Babak</a> , <a href="#">WANG Bin</a> , <a href="#">LI Hao</a> , <a href="#">CHEN Rongsheng</a> , <a href="#">NI Hongwei</a> , <a href="#">ZENG Zhiyuan</a> , <a href="#">CHU Paul Kim Ho</a> , "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                             | # <a href="#">LIU Liangliang</a> , # <a href="#">RUAN Qingdong</a> , <a href="#">XIAO Shu</a> , <a href="#">MENG Xinyu</a> , # <a href="#">HUANG Chao</a> , # <a href="#">WU Yuzheng</a> , <a href="#">FU King Yu</a> , <a href="#">CHU Paul Kim Ho</a> , "Fabrication and hydrogen permeation resistance of dense CrN coatings", <i>Surface and Coatings Technology</i> , 437, 10 March 2022, doi: <a href="https://doi.org/10.1016/j.surfcoat.2022.128326">https://doi.org/10.1016/j.surfcoat.2022.128326</a> .   |
|                             | # <a href="#">HUANG Chao</a> , <a href="#">QIN Ping</a> , # <a href="#">LI Dan</a> , # <a href="#">RUAN Qingdong</a> , <a href="#">SONG Hao</a> , # <a href="#">LIU Liangliang</a> , # <a href="#">WU Yuzheng</a> , <a href="#">MA Yinghe</a> , <a href="#">LI Qingwei</a> , <a href="#">HUO Kaifu</a> , <a href="#">CHU Paul Kim Ho</a> , "Origin of superior pseudocapacitive mechanism of transition metal nitrides", <i>Journal of Energy Chemistry</i> , 69, 03 February 2022, pp 561-568, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.041">https://doi.org/10.1016/j.jechem.2022.01.041</a> .  |

Section A: Publications of PhD Students

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|                  | <p>CHEN Junfeng, XIE Lingxia, #RUAN Qingdong, GAO Ang, LIAO Qing, MO Shi, LV Yuanliang, TONG Liping, WANG Huaiyu, <u>CHU Paul Kim Ho</u>, LI Xiaoming, "Diamond-like carbon coating and surface grafting of osteoprotegerin and alendronate on polyetheretherketone to ameliorate the mechanical performance and osseointegration simultaneously", <i>Composites Part B: Engineering</i>, 236, 17 March 2022, doi: <a href="https://doi.org/10.1016/j.compositesb.2022.109815">https://doi.org/10.1016/j.compositesb.2022.109815</a>.</p>  |
|                  | <p>#WU Yuzheng, #RUAN Qingdong, #HUANG Chao, LIAO Qing, #LIU Liangliang, #LIU Pei, MO Shi, WANG Guomin, WANG Huaiyu, <u>CHU Paul Kim Ho</u>, "Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation", <i>Materials Science and Engineering C</i>, 134, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.msec.2022.112701">https://doi.org/10.1016/j.msec.2022.112701</a>.</p>  |
|                  | <p>QIN Ping, SONG Hao, #RUAN Qingdong, HUANG Zhifeng, XU Yue, #HUANG Chao, "Direct observation of dynamic surface reconstruction and active phases on honeycomb Ni<sub>3</sub>N-Co<sub>3</sub>N/CC for oxygen evolution reaction", <i>Science China Materials</i>, 65(9), 25 April 2022, pp 2445–2452, doi: <a href="https://doi.org/10.1007/s40843-021-1995-4">https://doi.org/10.1007/s40843-021-1995-4</a>.</p>   |
|                  | <p>SHI Kejun, XIAO Shu, #RUAN Qingdong, WU Hao, CHEN Guohua, ZHOU Chilou, JIANG Saihua, XI Ke, HE Mohan, <u>CHU Paul Kim Ho</u>, "Hydrogen permeation behavior and mechanism of multi-layered graphene coatings and mitigation of hydrogen embrittlement of pipe steel", <i>Applied Surface Science</i>, 573, 19 October 2021, doi: <a href="https://doi.org/10.1016/j.apsusc.2021.151529">https://doi.org/10.1016/j.apsusc.2021.151529</a>.</p>   |
|                  | <p>TONG Xin, LI Yun, #RUAN Qingdong, PANG Ning, ZHOU Yang, WU Dajun, XIONG Dayuan, XU Shaohui, WANG Lianwei, <u>CHU Paul Kim Ho</u>, "Plasma Engineering of Basal Sulfur Sites on MoS<sub>2</sub>@Ni<sub>3</sub>S<sub>2</sub> Nanorods for the Alkaline Hydrogen Evolution Reaction", <i>Advanced Science</i>, 9(6), 22 December 2021, doi: <a href="https://doi.org/10.1002/adv.202104774">https://doi.org/10.1002/adv.202104774</a>.</p>   |
|                  | <p>#HUANG Chao, QIN Ping, LUO Yang, #RUAN Qingdong, #LIU Liangliang, #WU Yuzheng, <u>LI Qingwei</u>, XU Yue, LIU Rugeng, <u>CHU Paul Kim Ho</u>, "Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics", <i>Materials Today Energy</i>, 23, 26 November 2021, doi: <a href="https://doi.org/10.1016/j.mtener.2021.100911">https://doi.org/10.1016/j.mtener.2021.100911</a>.</p>  |
|                  | <p>PENG Feng, QIU Longhai, YAO Mengyu, LIU Lidan, ZHENG Yufeng, WU Shuilin, #RUAN Qingdong, LIU Xuanyong, ZHANG Yu, LI Mei, <u>CHU Paul Kim Ho</u>, "A lithium-doped surface inspires immunomodulatory functions for enhanced osteointegration through PI3K/AKT signaling axis regulation", <i>Biomaterials Science</i>, 14 October 2021, doi: <a href="https://doi.org/10.1039/d1bm01075a">https://doi.org/10.1039/d1bm01075a</a>.</p>  |
|                  | <p>#LIU Liangliang, #RUAN Qingdong, WU Zhongzhen, #LI Dan, #HUANG Chao, #WU Yuzheng, LI Tijun, WU Zhongcan, TIAN Xiubo, <u>FU King Yu</u>, <u>CHU Paul Kim Ho</u>, "Fabrication and cutting performance of CrA1N/CrA1 multilayer coatings deposited by continuous high-power magnetron sputtering", <i>Ceramics International</i>, 48(10), 04 February 2022, pp 14528-14536, doi: <a href="https://doi.org/10.1016/j.ceramint.2022.01.346">https://doi.org/10.1016/j.ceramint.2022.01.346</a>.</p>   |
| SHIL Sujit Kumer | <p><u>WANG Ying</u>, <u>LI Menglin</u>, <u>FAN Baobing</u>, #WONG Yeung Sum, <u>LO Chung Yan</u>, #KWOK Cheuk Kai Gary, #SHIL Sujit Kumer, <u>YIP Hin Lap</u>, <u>JEN Alex</u>, <u>TSANG Sai Wing</u>, <u>YU Kin Man</u>, "Flexibility of Room-Temperature-Synthesized Amorphous CdO-In<sub>2</sub>O<sub>3</sub> Alloy Films and Their Application as Transparent Conductors in Solar Cells", <i>ACS Applied Materials and Interfaces</i>, 13(36), 31 August 2021, pp 43795–43805, doi: <a href="https://doi.org/10.1021/acsami.1c14722">https://doi.org/10.1021/acsami.1c14722</a>.</p> |
|                  | <p>#SHIL Sujit Kumer, WANG Fei, EGBO Kingsley Onyekachi, #LAI Zhengxun, WANG Ying, WANG Yunpeng, ZHAO Dongxu, <u>TSANG Sai Wing</u>, <u>HO Johnny Chung Yin</u>, <u>YU Kin Man</u>, "Two-Step Chemical Vapor Deposition-Synthesized Lead-Free All-Inorganic Cs<sub>3</sub>Sb<sub>2</sub>Br<sub>9</sub> Perovskite Microplates for Optoelectronic Applications", <i>ACS Applied Materials and Interfaces</i>, 13(30), 21 July 2021, doi: <a href="https://doi.org/10.1021/acsami.1c07839">https://doi.org/10.1021/acsami.1c07839</a>.</p>   |
| SUN Liang        | <p>MAO Jiashun, AKHTAR Javed, ZHANG Xiao, #SUN Liang, GUAN Shenghui, LI Xinyu, CHEN Guangming, LIU Jiaxin, JEON Hyeon-Nae, KIM Min Sung, NO Kyoung Tai, WANG Guanyu, "Comprehensive strategies of machine-learning-based quantitative structure-activity relationship models", <i>iScience</i>, 24(9), 28 August 2021, doi: <a href="https://doi.org/10.1016/j.isci.2021.103052">https://doi.org/10.1016/j.isci.2021.103052</a>.</p>   |

## Section A: Publications of PhD Students

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|-------------|--|
|             | <p>#WANG Simin, #SUN Liang, LI Bing, DAI Liang, "Atomistic Insights into the Anisotropic and Low Thermal Conductivity in Neopentyl Glycol Crystals: A Molecular Dynamics Study", <i>Journal of Physical Chemistry C</i>, 125(29), 15 July 2021, pp 15853–15862, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04035">https://doi.org/10.1021/acs.jpcc.1c04035</a>.</p>  |
|             | <p>#CHEN Jialu, #SUN Liang, ZHANG Ruiqin, "Reaction mechanisms of cyclo[18]carbon and triplet oxygen", <i>Physical Chemistry Chemical Physics</i>, 23(32), 21 July 2021, pp 17545–17552, doi: <a href="https://doi.org/10.1039/d1cp02605d">https://doi.org/10.1039/d1cp02605d</a>.</p>   |
|             | <p>#CHEN Jialu, #SUN Liang, #WANG Simin, #TIAN Fujia, #ZHU Haoqi, ZHANG Ruiqin, DAI Liang, "Crowding-induced polymer trapping in a channel", <i>Physical Review E</i>, 104(5), 08 November 2021, doi: <a href="https://doi.org/10.1103/PhysRevE.104.054502">https://doi.org/10.1103/PhysRevE.104.054502</a>.</p>   |
| TANG Jiayin | <p>#TANG Jiayin, WEI Ming-Tso, SHARMA Amis, ARNAULT E. G., SEREDINSKI A., MEHTA Y., WATANABE Kenji, TANIGUCHI T., AMET F., BORZENETS Ivan Valerievich, "Overdamped phase diffusion in hBN encapsulated graphene Josephson junctions", <i>Physical Review Research</i>, 4(2), 10 June 2022, doi: <a href="https://doi.org/10.1103/PhysRevResearch.4.023203">https://doi.org/10.1103/PhysRevResearch.4.023203</a>.</p>   |
| TANG Kaiwei | <p>#LIU Pei, #WU Yuzheng, MEHRJOU Babak, #TANG Kaiwei, WANG Guomin, CHU Paul Kim Ho, "Versatile Phenol-Incorporated Nanoframes for In Situ Antibacterial Activity Based on Oxidative and Physical Damages", <i>Advanced Functional Materials</i>, 32(17), 04 March 2022, doi: <a href="https://doi.org/10.1002/adfm.202110635">https://doi.org/10.1002/adfm.202110635</a>.</p>   |
| TANG Yu     | <p>#ZHANG Binghao, #CHENG Le, #HUANG Libei, #TANG Yu, FANG Yongjin, LI Tao, YE Ruquan, LIU Qi, "Anomalous Self-Optimizing Microporous Graphene-Based Lithium-ion Battery Anode from Laser Activation of Small Organic Molecules", <i>Small Methods</i>, 6(8), 26 June 2022, doi: <a href="https://doi.org/10.1002/smt.202200280">https://doi.org/10.1002/smt.202200280</a>.</p>  |
|             | <p>XU Xing, ZHU He, #TANG Yu, WANG Liguang, ZHANG Qinghua, REN Yang, LAN Si, XIANG Lizhi, JIAN Jiyuan, HUO Hua, CHEN Guo-Xing, GU Lin, YIN Geping, WANG Xun-Li, SUN Xueliang, DU Chunyu, LIU Qi, "Spreading monoclinic boundary network between hexagonal primary grains for high performance Ni-rich cathode materials", <i>Nano Energy</i>, 100, 14 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107502">https://doi.org/10.1016/j.nanoen.2022.107502</a>.</p> |
|             | <p>YUAN Zhipeng, HU Zhuang, GAO Peng, ZHANG Weihua, #TANG Yu, LI Lingfang, SHI Kui, HAN Shaochang, FAN Changling, LIU Jinshui, LIU Jilei, "Graphitic carbon nitride-derived high lithium storage capacity graphite material with regular layer structure and the structural evolution mechanism", <i>Electrochimica Acta</i>, 409, 28 January 2022, doi: <a href="https://doi.org/10.1016/j.electacta.2022.139985">https://doi.org/10.1016/j.electacta.2022.139985</a>.</p>        |
|             | <p>#ZHU Hekang, #YIN Zijia, #TANG Yu, REN Yang, ZHU He, LUO Dong, LAN Si, YANG Li-Gao, LIU Qi, "Modulating precursor nanosheets for stabilized Ni-rich cathode material for Li-ion batteries", <i>Rare Metals</i>, 30 April 2022, doi: <a href="https://doi.org/10.1007/s12598-022-01983-6">https://doi.org/10.1007/s12598-022-01983-6</a>.</p>  |
|             | <p>ZHU He, #TANG Yu, WIADEREK Kamila M., BORKIEWICZ Olaf J., REN Yang, ZHANG Jian, #REN Jincan, FAN Longlong, LI Cheng Chao, LI Danfeng Denver, WANG Xun-Li, LIU Qi, "Spontaneous Strain Buffer Enables Superior Cycling Stability in Single-Crystal Nickel-Rich NCM Cathode", <i>Nano Letters</i>, 21(23), 23 November 2021, pp 9997–10005, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c03613">https://doi.org/10.1021/acs.nanolett.1c03613</a>.</p>                     |
| TIAN Fujia  | <p>ZHANG Chen, #TIAN Fujia, LU Ying, YUAN Bing, TAN Zhi-Jie, ZHANG Xing-Hua, DAI Liang, "Twist-diameter coupling drives DNA twist changes with salt and temperature", <i>Science Advances</i>, 8(12), 23 March 2022, doi: <a href="https://doi.org/10.1126/sciadv.abn1384">https://doi.org/10.1126/sciadv.abn1384</a>.</p>   |
|             | <p>QIANG Xiao-Wei, ZHANG Chen, DONG Hai-Long, #TIAN Fujia, FU Hang, YANG Ya-Jun, DAI Liang, ZHANG Xing-Hua, TAN Zhi-Jie, "Multivalent Cations Reverse the Twist-Stretch Coupling of RNA", <i>Physical Review Letters</i>, 128(10), 11 March 2022, doi: <a href="https://doi.org/10.1103/PhysRevLett.128.108103">https://doi.org/10.1103/PhysRevLett.128.108103</a>.</p>  |
|             | <p>#CHEN Jialu, #SUN Liang, #WANG Simin, #TIAN Fujia, #ZHU Haoqi, ZHANG Ruiqin, DAI Liang, "Crowding-induced polymer trapping in a channel", <i>Physical Review E</i>, 104(5), 08 November 2021, doi: <a href="https://doi.org/10.1103/PhysRevE.104.054502">https://doi.org/10.1103/PhysRevE.104.054502</a>.</p>   |
|             | <p>#ZHU Yongjian, #ZHU Haoqi, #TIAN Fujia, #QIU Qiyuan, DAI Liang, "Quantifying the effects of slit confinement on polymer knots using the tube model", <i>Physical Review E</i>, 105(2), 09 February 2022, doi: <a href="https://doi.org/10.1103/PhysRevE.105.024501">https://doi.org/10.1103/PhysRevE.105.024501</a>.</p>  |

Section A: Publications of PhD Students

|                       |   |
|-----------------------|---|
| <b>TONG Qing</b>      | <a href="#">WANG Shubo</a> , <a href="#">ZHANG Guanqing</a> , <a href="#">WANG Xulong</a> , <a href="#">#TONG Qing</a> , <a href="#">LI Jensen</a> , <a href="#">MA Guancong</a> , "Spin-orbit interactions of transverse sound", <i>Nature Communications</i> , 12, 21 October 2021, doi: <a href="https://doi.org/10.1038/s41467-021-26375-9">https://doi.org/10.1038/s41467-021-26375-9</a> .  |
|                       | <a href="#">#TONG Qing</a> , <a href="#">WANG Shubo</a> , "Acoustic helical dichroism in a one-dimensional lattice of chiral resonators", <i>Physical Review B</i> , 105(2), 31 January 2022, doi: <a href="https://doi.org/10.1103/PhysRevB.105.024111">https://doi.org/10.1103/PhysRevB.105.024111</a> .  |
| <b>WAN Zhongyu</b>    | <a href="#">#WAN Zhongyu</a> , <a href="#">WANG Quan-De</a> , "Machine Learning Prediction of the Exfoliation Energies of Two-Dimension Materials via Data-Driven Approach", <i>Journal of Physical Chemistry Letters</i> , 12(46), 18 November 2021, pp 11470-11475, doi: <a href="https://doi.org/10.1021/acs.jpcllett.1c03335">https://doi.org/10.1021/acs.jpcllett.1c03335</a> .  |
|                       | <a href="#">#WAN Zhongyu</a> , <a href="#">WANG Quan-De</a> , <a href="#">LIU Dongchang</a> , <a href="#">LIANG Jinhu</a> , "Effectively improving the accuracy of PBE functional in calculating the solid band gap via machine learning", <i>Computational Materials Science</i> , 198, 07 July 2021, doi: <a href="https://doi.org/10.1016/j.commatsci.2021.110699">https://doi.org/10.1016/j.commatsci.2021.110699</a> .   |
|                       | <a href="#">SU Yao Heng</a> , <a href="#">LIU D. C.</a> , <a href="#">#WAN Zhongyu</a> , <a href="#">CHEN Ai Min</a> , <a href="#">CHENG Pengfei</a> , "Quantum criticality in spin-1/2 anisotropic XY model with staggered Dzyaloshinskii–Moriya interaction", <i>Physica A: Statistical Mechanics and its Applications</i> , 594, 03 February 2022, doi: <a href="https://doi.org/10.1016/j.physa.2022.127005">https://doi.org/10.1016/j.physa.2022.127005</a> .  |
| <b>WANG Simin</b>     | <a href="#">#WANG Simin</a> , <a href="#">#SUN Liang</a> , <a href="#">LI Bing</a> , <a href="#">DAI Liang</a> , "Atomistic Insights into the Anisotropic and Low Thermal Conductivity in Neopentyl Glycol Crystals: A Molecular Dynamics Study", <i>Journal of Physical Chemistry C</i> , 125(29), 15 July 2021, pp 15853–15862, doi: <a href="https://doi.org/10.1021/acs.jpcc.1c04035">https://doi.org/10.1021/acs.jpcc.1c04035</a> .  |
|                       | <a href="#">#CHEN Jialu</a> , <a href="#">#SUN Liang</a> , <a href="#">#WANG Simin</a> , <a href="#">#TIAN Fujia</a> , <a href="#">#ZHU Haoqi</a> , <a href="#">ZHANG Ruiqin</a> , <a href="#">DAI Liang</a> , "Crowding-induced polymer trapping in a channel", <i>Physical Review E</i> , 104(5), 08 November 2021, doi: <a href="https://doi.org/10.1103/PhysRevE.104.054502">https://doi.org/10.1103/PhysRevE.104.054502</a> .  |
| <b>WONG Cheuk Yiu</b> | <a href="#">#WONG Cheuk Yiu</a> , <a href="#">YU Wing Chi</a> , "Loschmidt amplitude spectrum in dynamical quantum phase transitions", <i>Physical Review B</i> , 105(17), 26 May 2022, doi: <a href="https://doi.org/10.1103/physrevb.105.174307">https://doi.org/10.1103/physrevb.105.174307</a> .  |
| <b>WU Bangyao</b>     | <a href="#">#WU Bangyao</a> , <a href="#">GUO Weiyi</a> , <a href="#">AN Jianming</a> , <a href="#">LI Haixing</a> , "Control of molecular conductance by pH", <i>Journal of Materials Chemistry C</i> , 06 June 2022, doi: <a href="https://doi.org/10.1039/d2tc01140a">https://doi.org/10.1039/d2tc01140a</a> .   |
| <b>WU Yuzheng</b>     | <a href="#">#LIU Liangliang</a> , <a href="#">#RUAN Qingdong</a> , <a href="#">WU Zhongzhen</a> , <a href="#">LI Tijun</a> , <a href="#">ZUO Wei</a> , <a href="#">#HUANG Chao</a> , <a href="#">#WU Yuzheng</a> , <a href="#">WU Zhongcan</a> , <a href="#">FU King Yu</a> , <a href="#">CHU Paul Kim Ho</a> , "Hard and tough CrN coatings strengthened by high-density distorted coherent grain boundaries", <i>Journal of Alloys and Compounds</i> , 894, 28 September 2021, doi: <a href="https://doi.org/10.1016/j.jallcom.2021.162139">https://doi.org/10.1016/j.jallcom.2021.162139</a> .   |
|                       | <a href="#">#LI Dan</a> , <a href="#">#ZHANG Yuefeng</a> , <a href="#">ZHOU Xiaomin</a> , <a href="#">#HUANG Chao</a> , <a href="#">WEN Ying</a> , <a href="#">#LIU Liangliang</a> , <a href="#">LI Qingwei</a> , <a href="#">XU Yue</a> , <a href="#">#WU Yuzheng</a> , <a href="#">#RUAN Qingdong</a> , <a href="#">MA Yinghe</a> , <a href="#">XIONG Fangyu</a> , <a href="#">#XIAO Dezhi</a> , <a href="#">#LIU Pei</a> , <a href="#">WANG Guomin</a> , <a href="#">MEHRJOU Babak</a> , <a href="#">WANG Bin</a> , <a href="#">LI Hao</a> , <a href="#">CHEN Rongsheng</a> , <a href="#">NI Hongwei</a> , <a href="#">ZENG Zhiyuan</a> , <a href="#">CHU Paul Kim Ho</a> , "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                       | <a href="#">#LIU Liangliang</a> , <a href="#">#RUAN Qingdong</a> , <a href="#">XIAO Shu</a> , <a href="#">MENG Xinyu</a> , <a href="#">#HUANG Chao</a> , <a href="#">#WU Yuzheng</a> , <a href="#">FU King Yu</a> , <a href="#">CHU Paul Kim Ho</a> , "Fabrication and hydrogen permeation resistance of dense CrN coatings", <i>Surface and Coatings Technology</i> , 437, 10 March 2022, doi: <a href="https://doi.org/10.1016/j.surfcoat.2022.128326">https://doi.org/10.1016/j.surfcoat.2022.128326</a> .   |
|                       | <a href="#">#HUANG Chao</a> , <a href="#">QIN Ping</a> , <a href="#">#LI Dan</a> , <a href="#">#RUAN Qingdong</a> , <a href="#">SONG Hao</a> , <a href="#">#LIU Liangliang</a> , <a href="#">#WU Yuzheng</a> , <a href="#">MA Yinghe</a> , <a href="#">LI Qingwei</a> , <a href="#">HUO Kaifu</a> , <a href="#">CHU Paul Kim Ho</a> , "Origin of superior pseudocapacitive mechanism of transition metal nitrides", <i>Journal of Energy Chemistry</i> , 69, 03 February 2022, pp 561-568, doi: <a href="https://doi.org/10.1016/j.jechem.2022.01.041">https://doi.org/10.1016/j.jechem.2022.01.041</a> .   |
|                       | <a href="#">#WU Yuzheng</a> , <a href="#">#RUAN Qingdong</a> , <a href="#">#HUANG Chao</a> , <a href="#">LIAO Qing</a> , <a href="#">#LIU Liangliang</a> , <a href="#">#LIU Pei</a> , <a href="#">MO Shi</a> , <a href="#">WANG Guomin</a> , <a href="#">WANG Huaiyu</a> , <a href="#">CHU Paul Kim Ho</a> , "Balancing the biocompatibility and bacterial resistance of polypyrrole by optimized silver incorporation", <i>Materials Science and Engineering C</i> , 134, 08 February 2022, doi: <a href="https://doi.org/10.1016/j.msec.2022.112701">https://doi.org/10.1016/j.msec.2022.112701</a> .   |

## Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | ZHENG Yanyan, GAO Ang, BAI Jiayang, LIAO Qing, #WU Yuzheng, ZHANG Wei, GUAN Min, TONG Liping, GENG Dechun, ZHAO Xin, <u>CHU Paul Kim Ho</u> , WANG Huaiyu, "A programmed surface on polyetheretherketone for sequentially dictating osteoimmunomodulation and bone regeneration to achieve ameliorative osseointegration under osteoporotic conditions", <i>Bioactive Materials</i> , 14, 01 February 2022, pp 364-376, doi: <a href="https://doi.org/10.1016/j.bioactmat.2022.01.042">https://doi.org/10.1016/j.bioactmat.2022.01.042</a> .  |
|                      | XIE Lingxia, WANG Guomin, #WU Yuzheng, LIAO Qing, MO Shi, REN Xiaoxue, TONG Liping, ZHANG Wei, GUAN Min, PAN Haobo, <u>CHU Paul Kim Ho</u> , WANG huaiyu, "Programmed surface on poly(aryl-ether-ether-ketone) initiating immune mediation and fulfilling bone regeneration sequentially", <i>Innovation(United States)</i> , 2(3), 05 August 2021, doi: <a href="https://doi.org/10.1016/j.xinn.2021.100148">https://doi.org/10.1016/j.xinn.2021.100148</a> .  |
|                      | #LIU Pei, #WU Yuzheng, MEHRJOU Babak, #TANG Kaiwei, WANG Guomin, <u>CHU Paul Kim Ho</u> , "Versatile Phenol-Incorporated Nanoframes for In Situ Antibacterial Activity Based on Oxidative and Physical Damages", <i>Advanced Functional Materials</i> , 32(17), 04 March 2022, doi: <a href="https://doi.org/10.1002/adfm.202110635">https://doi.org/10.1002/adfm.202110635</a> .   |
|                      | #WU Yuzheng, LIAO Qing, WU Lie, LUO Yongxiang, ZHANG Wei, GUAN Min, PAN Haobo, TONG Liping, <u>CHU Paul Kim Ho</u> , WANG Huaiyu, "ZnL <sub>2</sub> -BPs Integrated Bone Scaffold under Sequential Photothermal Mediation: A Win-Win Strategy Delivering Antibacterial Therapy and Fostering Osteogenesis Thereafter", <i>ACS Nano</i> , 15(11), 27 October 2021, pp 17854–17869, doi: <a href="https://doi.org/10.1021/acsnano.1c06062">https://doi.org/10.1021/acsnano.1c06062</a> .  |
|                      | #HUANG Chao, QIN Ping, LUO Yang, #RUAN Qingdong, #LIU Liangliang, #WU Yuzheng, <u>LI Qingwei</u> , XU Yue, LIU Rugeng, <u>CHU Paul Kim Ho</u> , "Recent progress and perspective of cobalt-based catalysts for water splitting: design and nanoarchitectonics", <i>Materials Today Energy</i> , 23, 26 November 2021, doi: <a href="https://doi.org/10.1016/j.mtener.2021.100911">https://doi.org/10.1016/j.mtener.2021.100911</a> .  |
|                      | #LIU Liangliang, #RUAN Qingdong, WU Zhongzhen, #LI Dan, #HUANG Chao, #WU Yuzheng, LI Tijun, WU Zhongcan, TIAN Xiubo, FU King Yu, <u>CHU Paul Kim Ho</u> , "Fabrication and cutting performance of CrAlN/CrAl multilayer coatings deposited by continuous high-power magnetron sputtering", <i>Ceramics International</i> , 48(10), 04 February 2022, pp 14528-14536, doi: <a href="https://doi.org/10.1016/j.ceramint.2022.01.346">https://doi.org/10.1016/j.ceramint.2022.01.346</a> .   |
| <b>XIAO Dezhi</b>    | #LI Dan, #ZHANG Yuefeng, ZHOU Xiaomin, #HUANG Chao, WEN Ying, #LIU Liangliang, <u>LI Qingwei</u> , XU Yue, #WU Yuzheng, #RUAN Qingdong, MA Yinghe, XIONG Fangyu, #XIAO Dezhi, #LIU Pei, WANG Guomin, MEHRJOU Babak, WANG Bin, LI Hao, CHEN Rongsheng, NI Hongwei, ZENG Zhiyuan, <u>CHU Paul Kim Ho</u> , "Dynamic active sites on plasma engraved Ni hydroxide for enhanced electro-catalytic urea oxidation", <i>Journal of Energy Chemistry</i> , 71, 01 April 2022, pp 150-158, doi: <a href="https://doi.org/10.1016/j.jechem.2022.03.040">https://doi.org/10.1016/j.jechem.2022.03.040</a> . |
|                      | WANG Ying, #KWOK Cheuk Kai Gary, #XIAO Dezhi, ZHU Jiuzhou, SHU Xingyu, PING LIU Chao, YU Kin Man, "Improving the p-type conductivity of Cu <sub>2</sub> O thin films by Ni doping and their heterojunction with n-ZnO", <i>Applied Surface Science</i> , 590, 18 March 2022, doi: <a href="https://doi.org/10.1016/j.apsusc.2022.153047">https://doi.org/10.1016/j.apsusc.2022.153047</a> .   |
| <b>XIAO Wanyue</b>   | WU Gaojian, #XIAO Wanyue, WANG Ziyan, ZHANG Yong, HUANG Chengping, "Transparent absorber composed of two stacked ultrathin metal films perforated with small holes", <i>Optics Express</i> , 30(13), 20 June 2022, pp 22922-22930, doi: <a href="https://doi.org/10.1364/OE.460728">https://doi.org/10.1364/OE.460728</a> .   |
|                      | #XIAO Wanyue, HUANG Cheng-Ping, "Metasurfaces for de Broglie waves", <i>Physical Review B</i> , 104(24), 23 December 2021, doi: <a href="https://doi.org/10.1103/PhysRevB.104.245429">https://doi.org/10.1103/PhysRevB.104.245429</a> .   |
| <b>XU Wenjun</b>     | #CHEN Jialu, #XU Wenjun, ZHANG Ruiqin, "A machine learning approach using frequency descriptor for molecular property predictions", <i>New Journal of Chemistry</i> , 45(44), 20 October 2021, pp 20672-20680, doi: <a href="https://doi.org/10.1039/d1nj04739f">https://doi.org/10.1039/d1nj04739f</a> .   |
|                      | #CHEN Jialu, #XU Wenjun, ZHANG Ruiqin, "Δ-Machine learning-driven discovery of double hybrid organic-inorganic perovskites", <i>Journal of Materials Chemistry A</i> , 10(3), 13 December 2021, pp 1402-1413, doi: <a href="https://doi.org/10.1039/d1ta09911f">https://doi.org/10.1039/d1ta09911f</a> .  |
| <b>YANG Tingting</b> | #YANG Tingting, NIU Yubin, LIU Qi, XU Maowen, "Cathode host engineering for non-lithium (Na, K and Mg) sulfur/selenium batteries: A state-of-the-art review", <i>Nano</i>   |



Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | <i>Materials Science</i> , 18 February 2022, doi: <a href="https://doi.org/10.1016/j.nanoms.2022.01.001">https://doi.org/10.1016/j.nanoms.2022.01.001</a> .  |
| <b>YANG Yuewen</b>    | ZHU Yinghao, XIA Junchao, WU Si, SUN Kaitong, # <a href="#">YANG Yuewen</a> , <a href="#">ZHAO Yanling</a> , # <a href="#">KAN Hei Wun</a> , ZHANG Yang, WANG Ling, WANG Hui, FANG Jinghong, WANG Chaoyue, WU Tong, SHI Yun, YU Jianding, <a href="#">ZHANG Ruiqin</a> , LI Hai-Feng, "Crystal growth engineering and origin of the weak ferromagnetism in antiferromagnetic matrix of orthochromates from <i>t-e</i> orbital hybridization", <i>iScience</i> , 25(4), 18 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104111">https://doi.org/10.1016/j.isci.2022.104111</a> .   |
| <b>YANG Zheng</b>     | SHI Hongkang, # <a href="#">YANG Zheng</a> , # <a href="#">ZHANG Chengzhi</a> , # <a href="#">CHENG Yuqiong</a> , CHEN Yuntian, <a href="#">WANG Shubo</a> , "Robust exceptional point of arbitrary order in coupled spinning cylinders", <i>Optics Express</i> , 29(19), 31 August 2021, pp 29720-29729, doi: <a href="https://doi.org/10.1364/OE.432321">https://doi.org/10.1364/OE.432321</a> .   |
| <b>YIN Zijia</b>      | # <a href="#">ZHU Hekang</a> , # <a href="#">YIN Zijia</a> , # <a href="#">TANG Yu</a> , REN Yang, <a href="#">ZHU He</a> , <a href="#">LUO Dong</a> , LAN Si, YANG Li-Gao, <a href="#">LIU Qi</a> , "Modulating precursor nanosheets for stabilized Ni-rich cathode material for Li-ion batteries", <i>Rare Metals</i> , 30 April 2022, doi: <a href="https://doi.org/10.1007/s12598-022-01983-6">https://doi.org/10.1007/s12598-022-01983-6</a> .  |
| <b>ZHANG Binghao</b>  | # <a href="#">ZHANG Binghao</a> , # <a href="#">CHENG Le</a> , # <a href="#">HUANG Libei</a> , # <a href="#">TANG Yu</a> , <a href="#">FANG Yongjin</a> , LI Tao, <a href="#">YE Ruquan</a> , <a href="#">LIU Qi</a> , "Anomalous Self-Optimizing Microporous Graphene-Based Lithium-ion Battery Anode from Laser Activation of Small Organic Molecules", <i>Small Methods</i> , 6(8), 26 June 2022, doi: <a href="https://doi.org/10.1002/smt.202200280">https://doi.org/10.1002/smt.202200280</a> .  |
| <b>ZHANG Chengzhi</b> | # <a href="#">PENG Jie</a> , # <a href="#">JIA Shiqi</a> , # <a href="#">ZHANG Chengzhi</a> , <a href="#">WANG Shubo</a> , "Optical force and torque on small particles induced by polarization singularities", <i>Optics Express</i> , 30(10), 28 April 2022, pp 16489-16498, doi: <a href="https://doi.org/10.1364/OE.458060">https://doi.org/10.1364/OE.458060</a> .<br>SHI Hongkang, # <a href="#">YANG Zheng</a> , # <a href="#">ZHANG Chengzhi</a> , # <a href="#">CHENG Yuqiong</a> , CHEN Yuntian, <a href="#">WANG Shubo</a> , "Robust exceptional point of arbitrary order in coupled spinning cylinders", <i>Optics Express</i> , 29(19), 31 August 2021, pp 29720-29729, doi: <a href="https://doi.org/10.1364/OE.432321">https://doi.org/10.1364/OE.432321</a> .  |
| <b>ZHANG Xiaoming</b> | # <a href="#">ZHANG Xiaoming</a> , YUNG Man-Hong, YUAN Xiao, "Low-depth quantum state preparation", <i>Physical Review Research</i> , 3(4), 21 December 2021, doi: <a href="https://doi.org/10.1103/PhysRevResearch.3.043200">https://doi.org/10.1103/PhysRevResearch.3.043200</a> .<br>ZHANG Ting, SUN Jinzhao, FANG Xiao-Xu, # <a href="#">ZHANG Xiaoming</a> , YUAN Xiao, LU He, "Experimental Quantum State Measurement with Classical Shadows", <i>Physical Review Letters</i> , 127(20), 08 November 2021, doi: <a href="https://doi.org/10.1103/PhysRevLett.127.200501">https://doi.org/10.1103/PhysRevLett.127.200501</a> .<br>XU Feixiang, # <a href="#">ZHANG Xiaoming</a> , XU Liang, JIANG Tao, YUNG Man-Hong, ZHANG Lijian, "Experimental Quantum Target Detection Approaching the Fundamental Helstrom Limit", <i>Physical Review Letters</i> , 127(4), 22 July 2021, doi: <a href="https://doi.org/10.1103/PhysRevLett.127.040504">https://doi.org/10.1103/PhysRevLett.127.040504</a> .   |
| <b>ZHANG Yingxi</b>   | WANG Lei, LI Xiaofang, # <a href="#">ZHANG Yingxi</a> , MAO Weijian, LI Yuanyuan, <a href="#">CHU Paul Kim Ho</a> , KIZILASLAN Abdulkadir, ZHENG Zijian, HUO Kaifu, "Subnanometer MoP clusters confined in mesoporous carbon (CMK-3) as superior electrocatalytic sulfur hosts for high-performance lithium-sulfur batteries", <i>Chemical Engineering Journal</i> , 446, 17 May 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137050">https://doi.org/10.1016/j.cej.2022.137050</a> .  |
| <b>ZHAO Sai</b>       | # <a href="#">ZHAO Sai</a> , <a href="#">ZHANG Junyan</a> , # <a href="#">FU Yuchen</a> , ZHU Shipei, SHUM Ho Cheung, LIU Xubo, WANG Zhaoyu, <a href="#">YE Ruquan</a> , TANG Ben Zhong, RUSSELL Thomas P., <a href="#">CHAI Yu</a> , "Shape-Reconfigurable Ferrofluids", <i>Nano Letters</i> , 22(13), 29 June 2022, pp 5538-5543, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c01721">https://doi.org/10.1021/acs.nanolett.2c01721</a> .<br><a href="#">MA Qinglang</a> , # <a href="#">WU Zhiying</a> , # <a href="#">NEACSU Vlad-Andrei</a> , # <a href="#">ZHAO Sai</a> , <a href="#">CHAI Yu</a> , <a href="#">ZHANG Hua</a> , "Recycling plastic waste into multifunctional superhydrophobic textiles", <i>Nano Research</i> , 19 March 2022, doi: <a href="https://doi.org/10.1007/s12274-022-4249-y">https://doi.org/10.1007/s12274-022-4249-y</a> .<br>WANG Shijian, # <a href="#">ZHAO Sai</a> , GUO Xin, WANG Guoxiu, "2D Material-Based Heterostructures for Rechargeable Batteries", <i>Advanced Energy Materials</i> , 12(4), 27 January 2022, doi: <a href="https://doi.org/10.1002/aenm.202100864">https://doi.org/10.1002/aenm.202100864</a> . |
| <b>ZHU Haoqi</b>      | DU Jiang, YIN Hongmei, # <a href="#">ZHU Haoqi</a> , WAN Tiantian, WANG Binzhou, QI Hongtao, LU Yanfang, <a href="#">DAI Liang</a> , CHEN Tao, "Forming a Double-Helix Phase of Single Polymer Chains  |

## Section A: Publications of PhD Students

|   |   |
|---|---|
|   | by the Cooperation between Local Structure and Nonlocal Attraction", <i>Physical Review Letters</i> , 128(19), 09 May 2022, doi: <a href="https://doi.org/10.1103/PhysRevLett.128.197801">https://doi.org/10.1103/PhysRevLett.128.197801</a> .  |
|   | #CHEN Jialu, #SUN Liang, #WANG Simin, #TIAN Fujia, #ZHU Haoqi, ZHANG Ruiqin, DAI Liang, "Crowding-induced polymer trapping in a channel", <i>Physical Review E</i> , 104(5), 08 November 2021, doi: <a href="https://doi.org/10.1103/PhysRevE.104.054502">https://doi.org/10.1103/PhysRevE.104.054502</a> .   |
|   | #ZHU Yongjian, #ZHU Haoqi, #TIAN Fujia, #QIU Qiyuan, DAI Liang, "Quantifying the effects of slit confinement on polymer knots using the tube model", <i>Physical Review E</i> , 105(2), 09 February 2022, doi: <a href="https://doi.org/10.1103/PhysRevE.105.024501">https://doi.org/10.1103/PhysRevE.105.024501</a> .  |
| <b>ZHU Hekang</b>                                     | #ZHU Hekang, #YIN Zijia, #TANG Yu, REN Yang, ZHU He, LUO Dong, LAN Si, YANG Li-Gao, LIU Qi, "Modulating precursor nanosheets for stabilized Ni-rich cathode material for Li-ion batteries", <i>Rare Metals</i> , 30 April 2022, doi: <a href="https://doi.org/10.1007/s12598-022-01983-6">https://doi.org/10.1007/s12598-022-01983-6</a> .  |
|   | ZHU He, YAO Zhenpeng, #ZHU Hekang, #HUANG Yalan, ZHANG Jian, LI Cheng Chao, WIADEREK Kamila M., REN Yang, SUN Cheng-Jun, ZHOU Hua, FAN Longlong, CHEN Yanan, XIA Hui, GU Lin, LAN Si, LIU Qi, "Unlocking Oxygen Charge Compensation for Stabilized High-Voltage Structure in P2-Type Sodium-Ion Cathode", <i>Advanced Science</i> , 28 March 2022, doi: <a href="https://doi.org/10.1002/adv.202200498">https://doi.org/10.1002/adv.202200498</a> . |
| <b>ZHU Yongjian</b>                                   | #ZHU Yongjian, #ZHU Haoqi, #TIAN Fujia, #QIU Qiyuan, DAI Liang, "Quantifying the effects of slit confinement on polymer knots using the tube model", <i>Physical Review E</i> , 105(2), 09 February 2022, doi: <a href="https://doi.org/10.1103/PhysRevE.105.024501">https://doi.org/10.1103/PhysRevE.105.024501</a> .  |
| <b>Conference papers</b>                              |   |
| <b>LI Guangkuo</b>                                    | #LI Guangkuo, LI Yuhua, LI Qian, WANG Shao Hao, ZHU Xiaotian, DAVIDSON Roy, LITTLE Brent E., CHU Sai Tak, "Self-locked optical parametric oscillation in a highly doped silica glass slot ring resonator", <i>Proceedings - 26th Optoelectronics and Communications Conference</i> , Virtual, Online, China, 03-07 July 2021, (ISBN: 978-1-943580-92-7).  |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>TIAN Haoran</b>                                    | HUANG Miaoyan, #TIAN Haoran, XIONG Wei, ZHANG Ruiqin, Method and an Apparatus for Producing a Film of Carbon Nitride Material, Patent No.: US11,261,518, United States, 01 March 2022.  |
| <b>All other outputs</b>                              |   |
| <b>AHMED Syed Bilal</b>                               | #AHMED Syed Bilal, <i>Computational Studies of Molecular Rotors in Solvents and External Stimulus</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.   |
| <b>BAQI Sabah</b>                                     | #BAQI Sabah, <i>Surface Engineerings of Graphitic Carbon Nitride Films for Photoelectrochemical Applications</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 19 August 2021.   |
| <b>HO Chun Yuen</b>                                   | #HO Chun Yuen, <i>Band Structure Engineering, Defects and Doping in Rock-Salt and Wurtzite CdxZn1-xO Thin Films</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.   |
| <b>HUANG Chao</b>                                     | #HUANG Chao, <i>Combining Theory and Experiment in Electrocatalysis: Insights into Co-Based Materials Design and Application</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.   |
| <b>ILYAS Abdul-mojeed Olabisi</b>                     | #ILYAS Abdul-mojeed Olabisi, <i>Investigation on the Direct and Bystander Effects in HeLa and CHO Cells Exposed to Very Low Dose Alpha-Radiation Using Electrical Impedance Measurement</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 10 September 2021.   |
| <b>LI Junning</b>                                     | #LI Junning, <i>Quantum Control with Reinforcement Learning</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 28 July 2021.  |
| <b>LIU Yuanchao</b>                                   | #LIU Yuanchao, <i>Development of Dried Droplet Method for Trace Elements Analysis Using Laser-Induced Breakdown Spectroscopy</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 31 August 2021.   |
| <b>PENG Jie</b>                                       | #PENG Jie, Outstanding Oral Presentation Awards, 02 November 2021.  |
| <b>RASOOL Rafiqat UI</b>                              | #RASOOL Rafiqat UI, <i>Synthesis of Bismuth Vanadate Thin Films for Highly Efficient Photoelectrochemical Water Splitting and Triboelectric Nano Generators</i> , PhD Thesis,   |

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|  |   |
|--|---|
|  | Department of Physics, City University of Hong Kong, Hong Kong, PRC, 14 September 2021.   |
| <b>SHIL Sujit Kumer</b>                          | # <u>SHIL Sujit Kumer</u> , <i>Chemical Vapor Deposition Synthesis of Lead-Free All-Inorganic Antimony-Based Halide Perovskites and Their Optoelectronic Applications</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 14 March 2022.   |
| <b>TANG Kaiwei</b>                               | # <u>TANG Kaiwei</u> , <i>Surface Modification of Biomedical Titanium for Bacterial Proliferation Regulation and Characterization with Non-Leaching Mechanisms</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 19 July 2021.   |
| <b>TIAN Haoran</b>                               | # <u>TIAN Haoran</u> , <i>Tailoring Electronic Structures of Semiconductor Thin Films for Photoelectrochemical Applications</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.   |
| <b>XIAO Dezhi</b>                                | # <u>XIAO Dezhi</u> , <i>Plasma Functionalization of MoSe<sub>2</sub> Nanosheets for Enhancement of the Hydrogen Evolution Reaction Study</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 06 July 2021.  |
| <b>ZHANG Lizhai</b>                              | # <u>ZHANG Lizhai</u> , <i>Gas-sensing Mechanism of CeO<sub>2</sub>/Graphene Nanocomposites and Optimization and Regulation of the Performance</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.   |
| <b>ZHANG Xiaoming</b>                            | # <u>ZHANG Xiaoming</u> , <i>Applications of Machine Learning in Quantum Information Processing</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| <b>ZHU Hekang</b>                                | # <u>ZHU Hekang</u> , <i>Synthesis and Degradation Mechanism of Ni-rich Cathodes for Li-ion Battery</i> , PhD Thesis, Department of Physics, City University of Hong Kong, Hong Kong, PRC, 23 September 2021.   |
| <b>College, Schools and Academic Departments</b> |   |
| <b>SCHOOL OF CREATIVE MEDIA</b>                  |   |
| <b>Scholarly books, monographs and chapters</b>  |   |
| <b>LEUNG Michael</b>                             | # <u>LEUNG Michael</u> , <i>SIGNALS &amp; STORMS</i> , Freeport & Geocinema, October 2021, 42 p.<br># <u>LEUNG Michael</u> , "To Become Something More - Decolonial and Pedagogical Village Encounters", <i>Reorienting Hong Kong's Resistance - Leftism, Decoloniality, and Internationalism</i> , Chien JN, Chung Christina, Liu Wen and Tse Ellie (eds), Palgrave Macmillan, ISBN: 978-981-16-4658-4, 978-981-16-4659-1, Singapore, 27 January 2022, pp 119-137. |
| <b>NG Royce Hong Sheng</b>                       | # <u>NG Royce Hong Sheng</u> , TAN Ian, "Locating the Green Crab: Feng Shui and the Creation of a Modern City", <i>Detours: A Decolonial Guide to Singapore</i> , Duke University Press, 2022.<br># <u>NG Royce Hong Sheng</u> , BISENIEKS Daisy, "From Ethnographic to Virtual World Making", <i>Trading Zones - Camera Work in Artistic and Ethnographic Research</i> , Archive Books, ISBN: 978-3-948212-83-4, Berlin, 01 January 2022, pp 120-130.              |
| <b>SONG Zijing</b>                               | LC RAY, # <u>SONG Zijing</u> , SUN Yating, <i>Drizzle - a climate fiction manga</i> , Edition 1st, Floating Projects, ISBN: 978-988-75664-2-7, 978-988-75664-2-7, Hong Kong, 25 August 2021, 18 p.<br>LC RAY, # <u>SONG Zijing</u> , <i>Imitations of Immortality - a book of poetry by RAY LC and GPT-2</i> , Edition 1st, Floating Projects, ISBN: 978-988-75664-1-0, 978-988-75664-1-0, Hong Kong, 25 August 2021, 60 p.   |
| <b>YANG Jing</b>                                 | # <u>YANG Jing</u> , LI Zhenhua, "Digitalization of Art Exhibitions in Times of COVID-19 - Three Case Studies in China", <i>Practicing Sovereignty - Digital Involvement in Times of Crises</i> , Herlo Bianca, Irrgang Daniel, Joost Gesche and Unteidig Andreas (eds), transcript Verlag, ISBN: 978-3-8376-5760-9, 978-3-8394-5760-3, Bielefeld, 31 January 2022, pp 339-355.   |
| <b>Journal publications</b>                      |   |
| <b>CAI Shaoyu</b>                                | # <u>CAI Shaoyu</u> , ZHAO Lu, BAN Yuki, NARUMI Takuji, LIU Yue, <u>ZHU Kening</u> , "GAN-based image-to-friction generation for tactile simulation of fabric material", <i>Computers and Graphics (Pergamon)</i> , 102, 25 September 2021, pp 460-473, doi: <a href="https://doi.org/10.1016/j.cag.2021.09.007">https://doi.org/10.1016/j.cag.2021.09.007</a> .  |

Section A: Publications of PhD Students

|                            |   |
|----------------------------|---|
|                            | # <a href="#">CAI Shaoyu</a> , <a href="#">ZHU Kening</a> , BAN Yuki, NARUMI Takuji, "Visual-Tactile Cross-Modal Data Generation using Residue-Fusion GAN with Feature-Matching and Perceptual Losses", <i>IEEE Robotics and Automation Letters</i> , 6(4), 09 July 2021, pp 7525-7532, doi: <a href="https://doi.org/10.1109/LRA.2021.3095925">https://doi.org/10.1109/LRA.2021.3095925</a> .  |
| <b>CHEN Minchan</b>        | # <a href="#">CHEN Minchan</a> , <a href="#">LAU Chung Man Manfred</a> , "A Motion-Guided Interface for Modeling 3D Multi-functional Furniture", <i>Computer Graphics Forum</i> , 40(7), October 2021, pp 229-240, doi: <a href="https://doi.org/10.1111/cgf.14416">https://doi.org/10.1111/cgf.14416</a> .   |
| <b>CHEN Taizhou</b>        | # <a href="#">CHEN Taizhou</a> , # <a href="#">XU Lantian</a> , <a href="#">ZHU Kening</a> , "FritzBot: A data-driven conversational agent for physical-computing system design", <i>International Journal of Human Computer Studies</i> , 155, 06 August 2021, doi: <a href="https://doi.org/10.1016/j.ijhcs.2021.102699">https://doi.org/10.1016/j.ijhcs.2021.102699</a> .<br># <a href="#">CHEN Taizhou</a> , <a href="#">ZHU Kening</a> , <a href="#">YANG Ming-Chieh</a> , "Deep-learning-based unobtrusive handedness prediction for one-handed smartphone interaction", <i>Multimedia Tools and Applications</i> , 18 January 2022, doi: <a href="https://doi.org/10.1007/s11042-021-11844-6">https://doi.org/10.1007/s11042-021-11844-6</a> . |
| <b>HAO Yu</b>              | # <a href="#">HAO Yu</a> , "Computer Games as Social Sculptures: Rethinking the Discourse of Participation and Its Implications for Digital Game Design", <i>Proceedings of the ACM on Human-Computer Interaction</i> , 5(CHI PLAY), September 2021, doi: <a href="https://doi.org/10.1145/3474668">https://doi.org/10.1145/3474668</a> .   |
| <b>HUANG Chen</b>          | # <a href="#">HUANG Chen</a> , "Fulfilling the Potential of All Plants: Jiuhuang Bencao and the Discourses on Famine Foods in the Ming Dynasty", <i>Ming Qing Studies</i> , 2021, November 2021, pp 87-126.   |
| <b>JIN Chen</b>            | # <a href="#">JIN Chen</a> , "歷史敘述的多重可能 —— 紀錄片《蕭軍六記》", <i>城市文藝</i> , 16(4 (总第 113)), 20 August 2021, pp 128.  |
| <b>JU Ran</b>              | # <a href="#">JU Ran</a> , "中国文化语境下的设计体验 - 基于增强现实技术的叙事和创意探索", <i>中国文艺家</i> , (8), 01 August 2021, pp 59-60.<br># <a href="#">JU Ran</a> , "主题创意和图形语言的批判性思维塑造: 以社会为导向的公益海报设计课程教学思考", <i>装饰</i> , 2021 年(9 (总第 341)), 15 September 2021, pp 136-137, doi: <a href="https://doi.org/10.16272/j.cnki.cn11-1392/j.2021.09.026">https://doi.org/10.16272/j.cnki.cn11-1392/j.2021.09.026</a> .   |
| <b>KE Xiaobo</b>           | # <a href="#">KE Xiaobo</a> , <a href="#">WAGNER Christian</a> , <a href="#">DU Helen S.</a> , "Calling for information systems research on esports: An overview study", <i>Communications of the Association for Information Systems</i> , 50, March 2022, pp 261-285, doi: <a href="https://doi.org/10.17705/1CAIS.05010">https://doi.org/10.17705/1CAIS.05010</a> .  |
| <b>LI Mengjun</b>          | SUH Ayoung, # <a href="#">LI Mengjun</a> , "How the use of mobile fitness technology influences older adults' physical and psychological well-being", <i>Computers in Human Behavior</i> , 131, 22 January 2022, doi: <a href="https://doi.org/10.1016/j.chb.2022.107205">https://doi.org/10.1016/j.chb.2022.107205</a> .   |
| <b>LIN Yongqian</b>        | SUH Ayoung, <a href="#">CHEUNG Christy M.K.</a> , # <a href="#">LIN Yongqian</a> , "Meaningful engagement with a gamified knowledge management system: theoretical conceptualization and empirical validation", <i>Industrial Management &amp; Data Systems</i> , 122(5), 26 April 2022, pp 1355-1383, doi: <a href="https://doi.org/10.1108/IMDS-07-2021-0454">https://doi.org/10.1108/IMDS-07-2021-0454</a> .   |
| <b>LIU Jinping</b>         | # <a href="#">LIU Jinping</a> , "数据库影像的三副面孔——叙事媒介、文化消费与批判实践", <i>北京电影学院学报</i> , (6 (总第 186 期)), June 2022, pp 60-68.  |
| <b>LIU Xuechen</b>         | # <a href="#">LIU Xuechen</a> , <a href="#">WAGNER Christian</a> , "Technology Disrupts Employment Relationships and Brings Chaotic Turbulence in High-tech: A Multiple Case Study Approach", <i>International Journal of Economics and Management Systems</i> , 6, 02 August 2021, pp 419-439.   |
| <b>NG Royce Hong Sheng</b> | # <a href="#">NG Royce Hong Sheng</a> , <a href="#">AOYAMA Reijiro</a> , "Artificial Flavors: Nostalgia and the Shifting Horizons of Production is Sino-Japanese Animation", <i>Cultural Studies</i> , 2022.  |
| <b>SU Wanchao</b>          | # <a href="#">SU Wanchao</a> , # <a href="#">YE Hui</a> , <a href="#">CHEN Shu-Yu</a> , <a href="#">GAO Lin</a> , <a href="#">FU Hongbo</a> , "DrawingInStyles: Portrait Image Generation and Editing with Spatially Conditioned StyleGAN", <i>IEEE Transactions on Visualization and Computer Graphics</i> , 30 May 2022, doi: <a href="https://doi.org/10.1109/TVCG.2022.3178734">https://doi.org/10.1109/TVCG.2022.3178734</a> .   |
| <b>XIAO Chufeng</b>        | <a href="#">DU Yong</a> , <a href="#">XU Yangyang</a> , <a href="#">YE Taizhong</a> , <a href="#">WEN Qiang</a> , # <a href="#">XIAO Chufeng</a> , <a href="#">DONG Junyu</a> , <a href="#">HAN Guoqiang</a> , <a href="#">HE Shengfeng</a> , "Invertible Grayscale with Sparsity Enforcing Priors", <i>ACM Transactions on Multimedia Computing, Communications and Applications</i> , 17(3), 22 July 2021, doi: <a href="https://doi.org/10.1145/3451993">https://doi.org/10.1145/3451993</a> .   |

Section A: Publications of PhD Students

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|--------------------------|--|
|                          | #XIAO Chufeng, #YU Deng, HAN Xiaoguang, ZHENG Youyi, FU Hongbo, "SketchHairSalon: Deep Sketch-based Hair Image Synthesis", <i>ACM Transactions on Graphics</i> , 40(6), 10 December 2021, doi: <a href="https://doi.org/10.1145/3478513.3480502">https://doi.org/10.1145/3478513.3480502</a> .   |
| <b>XU Lantian</b>        | #CHEN Taizhou, #XU Lantian, ZHU Kening, "FritzBot: A data-driven conversational agent for physical-computing system design", <i>International Journal of Human Computer Studies</i> , 155, 06 August 2021, doi: <a href="https://doi.org/10.1016/j.ijhcs.2021.102699">https://doi.org/10.1016/j.ijhcs.2021.102699</a> .  |
| <b>YE Hui</b>            | #SU Wanchao, #YE Hui, CHEN Shu-Yu, GAO Lin, FU Hongbo, "DrawingInStyles: Portrait Image Generation and Editing with Spatially Conditioned StyleGAN", <i>IEEE Transactions on Visualization and Computer Graphics</i> , 30 May 2022, doi: <a href="https://doi.org/10.1109/TVCG.2022.3178734">https://doi.org/10.1109/TVCG.2022.3178734</a> .                     |
| <b>YU Deng</b>           | #XIAO Chufeng, #YU Deng, HAN Xiaoguang, ZHENG Youyi, FU Hongbo, "SketchHairSalon: Deep Sketch-based Hair Image Synthesis", <i>ACM Transactions on Graphics</i> , 40(6), 10 December 2021, doi: <a href="https://doi.org/10.1145/3478513.3480502">https://doi.org/10.1145/3478513.3480502</a> .   |
| <b>Conference papers</b> |  |
| <b>CAI Shaoyu</b>        | #KE Pingchuan, #CAI Shaoyu, #XU Lantian, ZHU Kening, "Weighted Walking: Propeller-based On-leg Force Simulation of Walking in Fluid Materials in VR", <i>Proceedings SIGGRAPH Asia 2021 Emerging Technologies</i> , Tokyo International Forum (Japan + Online), Tokyo, Japan, 14-17 December 2021, (ISBN: 9781450386852).  |
| <b>CHEN Manni</b>        | #CHEN Manni, LINDBORG Per Magnus, "Evaluation of AI Reverberation on Guitar", <i>16th International Conference on Music Perception and Cognition and 11th Triennial Conference of European Society for the Cognitive Sciences of Music (ICMPC16-ESCOM11)</i> , Virtual, 28-31 July 2021.   |
|                          | #CHEN Manni, LINDBORG Per Magnus, "Evaluation of AI Reverberation on Guitar", <i>16th International Conference on Music Perception and Cognition jointly organised with the 11th triennial conference of European Society of the Cognitive Sciences of Music</i> , University of Sheffield, Sheffield, United Kingdom, 28-31 July 2021.                          |
| <b>CHEN Yilan</b>        | #CHEN Yilan, KWAN Kin Chung, WEI Li-yi, FU Hongbo, "Autocomplete Repetitive Stroking with Image Guidance", <i>Proceedings SIGGRAPH Asia 2021 Technical Communications</i> , Tokyo International Forum (Japan + Online), Tokyo, Japan, 14-17 December 2021, (ISBN: 9781450390736).  |
| <b>CHOI Sin Yi</b>       | #CHOI Sin Yi, "What makes the dispersed narratives in Global South: An Ethnographic Study of Alternative Archives in Hong Kong", <i>Eye International Conference 2022</i> , EYE Filmmuseum, Amsterdam, Netherlands, 29 May - 31 August 2022.   |
| <b>ECKHOFF Daniel</b>    | #ECKHOFF Daniel, CASSINELLI Alvaro, SANDOR Christian, "Heat Pain Threshold Modulation By Experiencing Burning Hands in Augmented Reality", <i>2021 IEEE International Symposium on Mixed and Augmented Reality Adjunct Proceedings - ISMAR-Adjunct 2021</i> , Virtual, Bari, Italy, 04-08 October 2021, pp 352-353, (ISBN: 978-1-6654-1298-8,978-1-6654-1299-5). |
| <b>GUI Ren</b>           | #GUI Ren, "Persona of A-mei in transition: Fan Identity and Identification", pp 73-81.   |
| <b>HAO Yu</b>            | #HAO Yu, "Intertextuality, Intermediality, and Intermateriality in Chinese Cultivation Games and Novels", <i>Gamebooks</i> , Tampere University, Tampere, Finland, 04-06 May 2022.   |
|                          | #HAO Yu, "Co-becoming with Games: Agency in Digital Games and Play", <i>Re-Thinking Agency: Non-Anthropocentric Approaches</i> , University of Warsaw & online, Warsaw, Poland, 03-05 February 2022.   |
| <b>HOTH Janina</b>       | #HOTH Janina, "Art-Science Research in Botany: Reinvestigating scientific representations of trees", <i>Proceedings of Polititcs of the machines - Rogue Research 2021</i> , pp 153-158.   |
|                          | #HOTH Janina, "Creative Technologies and Interdisciplinary Collaboration: A case study on the Aspen Movie Map", <i>ARTECH 2021 - 10th International Conference on Digital and Interactive Arts</i> , Aveiro University and Camara Municipal de Aveiro, Aveiro, Portugal, 13-15 October 2021, (ISBN: 978-1-4503-8420-9).  |
| <b>HUANG Chen</b>        | #HUANG Chen, "Benevolence and Efficacy: A Genealogy of Famine Food Treatises", <i>The Sixth Biennial Conference of East Asian Environmental History (EAEH 2021)</i> , Online, Kyoto, Japan, 07-10 September 2021.  |

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| <b>JIN Chen</b>            | # <a href="#">JIN Chen</a> , "青春的发现:《失踪的女中学生》与我国 80 年代青少年性教育", <i>第 29 期中国电影学博士论坛 (29th Film Studies Doctoral Students Forum in China)</i> , 中国传媒大学, Beijing, China, 23-23 October 2021, pp 379-388.   |
|                            | # <a href="#">JIN Chen</a> , "从盘中之景到银幕想象 —— 瓷器中柳园纹样图案的跨媒介叙述", <i>第十届中国电影史年会 (10th Chinese Film History Annual Conference)</i> , 中国电影艺术研究中心, Beijing, China, 12-13 October 2021, pp 522-534.  |
|                            | # <a href="#">JIN Chen</a> , "Pu Shunqing and Her Screenwriting Practice in the Early Film Industry", <i>Women and the Silent Screen XI</i> , USA, New York, 07-08 June 2022.  |
|                            | # <a href="#">JIN Chen</a> , "The revolution of underwear: changing aesthetics of the female breast in the Jianmei trend in China of the 1930s ", <i>52nd National Conference of the Popular Culture Association 2022</i> , Virtual, United States, 13-16 April 2022.  |
| <b>KE Pingchuan</b>        | # <a href="#">KE Pingchuan</a> , # <a href="#">CAI Shaoyu</a> , # <a href="#">XU Lantian</a> , <a href="#">ZHU Kening</a> , "Weighted Walking: Propeller-based On-leg Force Simulation of Walking in Fluid Materials in VR", <i>Proceedings SIGGRAPH Asia 2021 Emerging Technologies</i> , Tokyo International Forum (Japan + Online), Tokyo, Japan, 14-17 December 2021, (ISBN: 9781450386852).   |
| <b>KE Xiaobo</b>           | # <a href="#">KE Xiaobo</a> , <a href="#">WAGNER Christian</a> , "EVERYDAY GAMING INDUCES AMATEUR ESPORTS PARTICIPATION THROUGH COMMITMENT", <i>Thirtieth European Conference on Information Systems (ECIS 2022)</i> , West University of Timișoara, Timisoara, Romania, 18-24 June 2022.  |
| <b>LEUNG Michael</b>       | # <a href="#">LEUNG Michael</a> , "Villager Pedagogies and Backpack Organisers in Hong Kong", <i>Urgent Pedagogies Issue#3 launch</i> , Online, Sweden, 03 December 2021.  |
| <b>LIU Chang</b>           | # <a href="#">LIU Chang</a> , <a href="#">SANDOR Christian</a> , <a href="#">CASSINELLI Alvaro</a> , "A Mixed Reality Installation to Elicit Reflexivity on Adverse Childhood Experiences", <i>27th International Symposium on Electronic Art</i> , CCCB, Barcelona, Spain, 10-16 June 2022.   |
| <b>LIU Xuechen</b>         | # <a href="#">LIU Xuechen</a> , "Calling for the "Complete Game Strategy" for Geo AR Mobile Games, An Overview Study", <i>"HCI 2022 - Late Breaking Papers" proceedings (Springer LNCS)</i> .  |
| <b>MASLIC Anton Dragan</b> | # <a href="#">MASLIC Anton Dragan</a> , <a href="#">KIM Eugenia Sangmie</a> , "An Epistemological Misalignment of Cogs in the AI-Art-Making Machine", <i>EVA London Conference 2021</i> , Zoom, London, United Kingdom, 05-09 July 2021, pp 277-278.   |
|                            | # <a href="#">MASLIC Anton Dragan</a> , "NerveLoop: Visualization as Speculative Process to Explore Abstract Neuroscientific Principles Through New Media Art", <i>ArtsIT, Interactivity and Game Creation - Creative Heritage. New Perspectives from Media Arts and Artificial Intelligence. 10th EAI International Conference, ArtsIT 2021, Virtual Event, December 2-3, 2021, Proceedings</i> , Online, Karlsruhe, Germany, 02-03 December 2021, pp 29-43, (ISBN: 978-3-030-95531-1,9783030955304). |
| <b>NASSER Arshad</b>       | # <a href="#">NASSER Arshad</a> , # <a href="#">ZHENG Kexin</a> , <a href="#">ZHU Kening</a> , "ThermEarhook: Investigating Spatial Thermal Haptic Feedback on the Auricular Skin Area", <i>ICMI '21 - Proceedings of the 2021 International Conference on Multimodal Interaction</i> , Virtual, Online, Canada, 18-22 October 2021, pp 662-672, (ISBN: 978-1-4503-8481-0).  |
| <b>RUAN Lingyan</b>        | <a href="#">LAM Miu Ling</a> , # <a href="#">RUAN Lingyan</a> , <a href="#">CHEN Bin</a> , <a href="#">LI Jizhou</a> , "Learning to Deblur Using Light Field Generated and Real Defocus Images", <i>Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)</i> , pp 16304-16313.   |
| <b>SIMON Lina</b>          | <a href="#">IKESHIRO Ryo</a> , # <a href="#">SIMON Lina</a> , "DAT/ACT: Data Art for Climate Action Gallery", <i>Data Art for Climate Action (DACA 2022)</i> , Online, Hong Kong, 23-26 February 2022.   |
| <b>SONG Zijiang</b>        | # <a href="#">SONG Zijiang</a> , <a href="#">SUN Yating</a> , <a href="#">LC RAY</a> , "DRIZZLE: a comic for covert climate action influence", <i>[ _ ] WITH DESIGN - isadr 2021 - Book of Abstracts</i> , The Hong Kong Polytechnic University, Hong Kong, 05-09 December 2021, pp 105, (ISBN: 9789887782087).  |
|                            | # <a href="#">SONG Zijiang</a> , <a href="#">SUN Yating</a> , <a href="#">RUIJTERS Vincent</a> , <a href="#">LC RAY</a> , "Climate Influence: Implicit Game-Based Interactive Storytelling for Climate Action Purpose", <i>Interactive Storytelling - 14th International Conference on Interactive Digital Storytelling, ICIDS 2021, Tallinn, Estonia, December 7-10, 2021, Proceedings</i> , Santa Cruz, CA, United States, 07-10 December 2021, pp 425-429, (ISBN: 9783030922993,9783030923006).     |

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|                          | # <u>SONG Zijing</u> , <u>SUN Yating</u> , <u>LC RAY</u> , "Narrating Climate Change: speculative data stories in comic form for affecting climate action", <i>DACA 2022 - CONFERENCE ON DATA ART FOR CLIMATE ACTION - PROCEEDINGS/CATALOGUE</i> , Online, Hong Kong, 23-26 February 2022, pp 51-59, (ISBN: 978-962-442-451-5).   |
| <b>TIMURGALIEVA Olga</b> | # <u>TIMURGALIEVA Olga</u> , "On relational pathogenicity in art and biology", <i>Association for the Study of Literature and Environment (ASLE) 2021 Virtual Conference</i> , Virtual, 26 July - 06 August 2021.   |
| <b>WANG Liwen</b>        | # <u>WANG Liwen</u> , <u>SANDOR Christian</u> , "An Empirical Study of Size Discrimination in Augmented Reality", <i>2021 IEEE International Symposium on Mixed and Augmented Reality Adjunct Proceedings - ISMAR-Adjunct 2021</i> , Virtual, Bari, Italy, 04-08 October 2021, pp 384-386, (ISBN: 978-1-6654-1298-8,978-1-6654-1299-5).   |
|                          | # <u>WANG Liwen</u> , <u>SANDOR Christian</u> , "Can You Perceive the Size Change? Discrimination Thresholds for Size Changes in Augmented Reality", <i>Virtual Reality and Mixed Reality - 18th EuroXR International Conference, EuroXR 2021, Milan, Italy, November 24-26, 2021, Proceedings</i> , Virtual, Milan, Italy, 24-26 November 2021, pp 25-36, (ISBN: 978-3-030-90738-9,978-3-030-90739-6).   |
| <b>WANG Qiaochu</b>      | <u>SONG Tianyu</u> , <u>MARTIN-GOMEZ Alejandro</u> , # <u>WANG Qiaochu</u> , <u>MEHRFARD Arian</u> , <u>FOTOUHI Javad</u> , <u>ROTH Daniel</u> , <u>ECK Ulrich</u> , <u>NAVAB Nassir</u> , "Impact of Parameter Disentanglement on Collaborative Alignment", <i>Proceedings - 2022 IEEE Conference on Virtual Reality and 3D User Interfaces - VRW 2022</i> , Virtual, Christchurch, New Zealand, 12-16 March 2022, pp 560-561, (ISBN: 978-1-6654-8403-9,9781665484022).  |
|                          | # <u>WANG Qiaochu</u> , <u>SANDOR Christian</u> , "Fisheye vs Rubber Sheet: Supporting Visual Search and Fine Motor Skills in Augmented Reality", <i>Proceedings - 2021 IEEE International Symposium on Mixed and Augmented Reality Adjunct Proceedings - ISMAR-Adjunct 2021</i> , Virtual, Bari, Italy, 04-08 October 2021, pp 389-390, (ISBN: 978-1-6654-1298-8,978-1-6654-1299-5).   |
| <b>WANG Yuhui</b>        | # <u>WANG Yuhui</u> , "民国漫画中的电影史: 细节与多元", <i>第十届中国电影史年会 (10th Chinese Film History Annual Conference)</i> , 中国电影艺术研究中心, Beijing, China, 12-13 October 2021.   |
|                          | # <u>WANG Yuhui</u> , "Future Memories: Reimagining Hong Kong through Japanese Retro Videogames", <i>Association for Asian Studies 2022 Annual Conference (AAS 2022)</i> , Hawai'i Convention Center & Hilton Hawaiian Village Waikiki Resort (in-person and virtual), Honolulu, United States, 24-27 March 2022.   |
| <b>XU Hongshen</b>       | <u>LC RAY</u> , <u>BENAYOUN Maurice</u> , <u>LINDBORG Per Magnus</u> , # <u>XU Hongshen</u> , <u>CHAN Hin Chung</u> , <u>YIP Ka Man</u> , <u>ZHANG Tian Yi</u> , "Power Chess: robot-to-robot nonverbal emotional expression applied to competitive play", <i>ARTECH 2021 - Proceedings of the 10th International Conference on Digital and Interactive Arts: Hybrid Praxis - Art, Sustainability and Technology</i> , Aveiro University and Camara Municipal de Aveiro, Aveiro, Portugal, 13-15 October 2021, (ISBN: 9781450384209). |
|                          | # <u>XU Hongshen</u> , <u>LC RAY</u> , "Cohesiveness of Robots in Groups Affects the Perception of Social Rejection by Human Observers", <i>HRI '22 - Proceedings of the 2022 ACM/IEEE International Conference on Human-Robot Interaction</i> , Online, Sapporo, Japan, 07-10 March 2022, pp 1100-1104, (ISBN: 978-1-5386-8554-9).   |
| <b>XU Lantian</b>        | # <u>KE Pingchuan</u> , # <u>CAI Shaoyu</u> , # <u>XU Lantian</u> , <u>ZHU Kening</u> , "Weighted Walking: Propeller-based On-leg Force Simulation of Walking in Fluid Materials in VR", <i>Proceedings SIGGRAPH Asia 2021 Emerging Technologies</i> , Tokyo International Forum (Japan + Online), Tokyo, Japan, 14-17 December 2021, (ISBN: 9781450386852).  |
| <b>YE Hui</b>            | # <u>YE Hui</u> , <u>FU Hongbo</u> , "ProGesAR: Mobile AR Prototyping for Proxemic and Gestural Interactions with Real-world IoT Enhanced Spaces", <i>CHI '22 - CHI Conference on Human Factors in Computing Systems</i> , Hybrid, New Orleans, United States, 30 April - 05 May 2022, (ISBN: 978-1-4503-9157-3).   |
| <b>ZHOU Jie</b>          | <u>LUO Zhongjin</u> , # <u>ZHOU Jie</u> , <u>ZHU Heming</u> , <u>DU Dong</u> , <u>HAN Xiaoguang</u> , <u>FU Hongbo</u> , "SimpModeling: Sketching Implicit Field to Guide Mesh Modeling for 3D Animalmorphic Head Design", <i>UIST'21 - Proceedings of the 34th Annual ACM Symposium on User</i>  |

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|  | <p><i>Interface Software and Technology</i>, Virtual, United States, 10-14 October 2021, pp 854-863, (ISBN: 9781450386357).</p>  |
| <p><b>Creative and literary works, consulting reports and case studies</b></p> |  |
| <p><b>BEADMAN Kay Mei Ling</b></p>   | <p>#BEADMAN Kay Mei Ling, Artist, "The Invisible Child Grows Up", Lecture performance with wearables for artist and audience, multiple texts and found photographs. Approximate duration 30mins</p> <p>This lecture performance uses a tangled, multivocal combination of archival historical records, fictive responses, speculative texts, autoethnographic and interviewee accounts of lived mixed race experience in Hong Kong and the UK, as well as found photographs and wearables. It unsettles the origins and ongoing attitudes towards Chinese and white mixed race identity in Hong Kong, from stigma to fetishization, and how assumptions along that continuum are shaped by discredited but still prevalent racial hierarchical norms. In the bodily lived experience of mixed race, binary oppositions make no sense, there can be no fault line of 'them' and 'us' within the body. Not half but both., <i>Booked</i>, Tai Kwun Contemporary , Hong Kong, 16-19 December 2021.</p> <p>#BEADMAN Kay Mei Ling, Artist, "Dress Coded", Series of 5 colour photographs printed on aluminium<br/>Each 87.5 x 58.4cm</p> <p>The reversible metallic cloaks are both absurd and highly visible, yet the shapelessness of the draping and the oversized hoods hide multiple visible signifiers, from presumptive race to age and gender. When such markers are unable to be used for discriminatory means, who might we become?, <i>Interdependencies</i>, Institute of Contemporary Arts Singapore , Singapore, 21 August - 16 October 2021.</p> <p>#BEADMAN Kay Mei Ling, Artist, "Enmeshed", Silver and gold wire (0.25mm diameter)<br/>Approx. 3m x 5.5m unstretched</p> <p>"The ultimate mark of power may be its invisibility, the ultimate challenge, the exposition of its roots." Michel-Rolph Trouillot</p> <p>How might we notice invisible power structures; created, constructed, maintained, perhaps so deeply embedded over such long time spans that they come to seem natural? This fine-gauge metal net, its gold and silver filaments barely visible, invites unwitting participation. If noticed, it can be seen and negotiated, if not, walking blindly into it adds bulges breaks, deformities. But still it holds.</p> <p>Gold and silver are used both as colour and arbitrary value, referencing the early 20th century treatise <i>Datong Shu</i> by Kang You Wei. In it he posits a problematic eugenic super race of Chinese and white mixedness, using the idea of gold and silver metal as proxies for race, their proximity excluding all others in a false hierarchy.</p> <p>Exhibited in Fault Lines:<br/>As thin as hair, or so large as to be visible from space, fault lines are a geological phenomena of displacement created from tectonic movements, resulting in fractures that open up the skin of the earth. This planar splintering acts as the premise of this exhibition, which investigates the concept of 'fault lines' as a material and symbolic construct through artworks that are mostly made from construction materials such as concrete, marble, zip ties, wire, grout, and foam. Some installations are intentionally barely visible at first glance, examining the reliability of our pre-existing belief structures, and evoking the emotional challenges of navigating an unsteady ground. Some play on the pun of 'fault', a misalignment which insinuates a binary positioning of 'right' and 'wrong', questioning the potential of culpability. Some focus on the interplay between material and the site, using the specificity of the space to contemplate ideas about building, cracking, mending, misaligning and reconstructing. Ultimately, the core of the works lies in a potentiality where forms mutate and meanings alter: at times</p> |



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|                       | <p>imperceptibly slow, at times violently sudden, like the restless earth under our feet. , <i>Fault Lines</i>, Current Plans, Hong Kong, 01 October - 07 November 2021.</p>  |
| <p><b>GUI Ren</b></p> | <p><u>IKESHIRO Ryo</u>, #SIMON Lina, #GUI Ren, Speaker, "DAT/ACT Artists' Session", Meet the curators and the artists</p> <p><i>Participants:</i><br/> Ryo Ikeshiro<br/> Lina Simon<br/> Gui Ren<br/> PerMagnus Lindborg<br/> Joyce Koh<br/> Hiromi Okumura<br/> Valerie Williams<br/> Jenn Kirby<br/> Morgan Jenks<br/> Vincent Ruijters<br/> Lukasz Mirocha</p> <hr/> <p><b>DAT/ACT Data Art for Climate Action Gallery</b><br/> DAT/ACT brings together a collection of artworks responding to climate change, the defining crisis of our time., <i>Data Art for Climate Action (DACA 2022)</i>, Online, Hong Kong, 23-26 February 2022.</p> <p><u>LC RAY</u>, RUIJTERS Vincent, <u>IKESHIRO Ryo</u>, #SIMON Lina, #GUI Ren, #SONG Zijing, Actor, Artist, Co-curator, Curator, Curatorial Advisor, "Chikyuchi and Drizzle @ DAT/ACT Data Art for Climate Action Gallery", 2022.</p> <p><u>IKESHIRO Ryo</u>, #SIMON Lina, #GUI Ren, Co-curator, Curator, Producer, "DAT/ACT Data Art for Climate Action Gallery", DAT/ACT brings together a collection of artworks responding to climate change, the defining crisis of our time. , <i>Data Art for Climate Action (DACA 2022)</i>, Online, Hong Kong, 23-26 February 2022.</p> |

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| <p><b>GUZMAN SERRANO</b><br/><b>Carlos Rodrigo</b></p> | <p>#<a href="#">GUZMAN SERRANO Carlos Rodrigo</a>, <a href="#">MEREWETHER Charles</a>, <a href="#">IKESHIRO Ryo</a>, <a href="#">LC RAY</a>, <a href="#">LINDBORG Per Magnus</a>, <a href="#">WONG Chi</a>, Artist, Curator, "I'm always here", I am always here, in this body, in this place. The meaning of the word here is, without doubt, never fixed, but it is always referential. Here always refers to me, the speaker, the body that enunciates it. And here is always certain: there is always a here. <b>I'M ALWAYS HERE</b> addresses the meaning, language, and condition of being in here through artworks that explore space as both an individual and collective concept as well as embodied, physical, and virtual.</p> <p>In the exhibition, the idea of being in here is divided into three levels: body, site, and location. The three levels grow outwards like waves that build and expand on each other. The body is the first space we occupy, our flesh and bones together with our mind. Site refers to our immediate surroundings: a room perhaps, or a virtual environment, which could be anywhere and anytime. Finally, location relates more specifically to our "global place" in relationship to others. Like concentric circles, these concepts intermingle and flow into and out of each other., <i>I'm Always Here</i>, Osage Gallery, Hong Kong, China, 24 July - 22 August 2021.</p>  |
| <p><b>HUANG Chen</b></p>                               | <p>#<a href="#">TIMURGALIEVA Olga</a>, #<a href="#">HUANG Chen</a>, #<a href="#">XU Feixuan</a>, #<a href="#">PARK Ji Yun</a>, #<a href="#">LEUNG Michael</a>, #<a href="#">NAGASAKA Aki</a>, #<a href="#">LIU Mankun</a>, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> <p>#<a href="#">HUANG Chen</a>, #<a href="#">LEUNG Michael</a>, #<a href="#">LIU Mankun</a>, #<a href="#">NAGASAKA Aki</a>, #<a href="#">PARK Ji Yun</a>, #<a href="#">TIMURGALIEVA Olga</a>, #<a href="#">XU Feixuan</a>, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |

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| <p><b>LEUNG Michael</b></p> | <p>#TIMURGALIEVA Olga, #HUANG Chen, #XU Feixuan, #PARK Ji Yun, #LEUNG Michael, #NAGASAKA Aki, #LIU Mankun, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> <p>#HUANG Chen, #LEUNG Michael, #LIU Mankun, #NAGASAKA Aki, #PARK Ji Yun, #TIMURGALIEVA Olga, #XU Feixuan, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |
| <p><b>LIU Mankun</b></p>    | <p>#TIMURGALIEVA Olga, #HUANG Chen, #XU Feixuan, #PARK Ji Yun, #LEUNG Michael, #NAGASAKA Aki, #LIU Mankun, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p>   |

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|                           | <p>#HUANG Chen, #LEUNG Michael, #LIU Mankun, #NAGASAKA Aki, #PARK Ji Yun, #TIMURGALIEVA Olga, #XU Feixuan, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |
| <p><b>MAK Wai Yee</b></p> | <p>#MAK Wai Yee, BENAYOUN Maurice, REINHUBER Elke Evelin, BARAT Théodora , FAN Kattie , KEMP Jonathan , MARFIN Alexey , NG Kingsley, #NG Royce Hong Sheng, CASSINELLI Alvaro, Artist, Chairman, Curator, "Panel Discussion IV: At the Edge of Reality - 'Art in the Cloud' Panel Discussion of Ars Electronica 2021, Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with the technological innovations of their times. Art in the Cloud is curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions. How does today's online space contribute to, or limit, artistic creativity? What are some of the unexpected challenges that artists have encountered? What are some of the new potentials that emerge from the technological impediments we come across?, <i>Panel Discussion IV: At the Edge of Reality</i>, online, 11-11 September 2021.</p> <p>#MAK Wai Yee, BENAYOUN Maurice, WALICZKY Tamas Pal, CHAN Ka Chun Joseph, DONNARUMMA Marco , GIMENO David Rodriguez , KOOK Vvzela , LC RAY, LIN Pey-Chwen, Artist, Chairman, Curator, "Panel Discussion III: Interactivity and Immersion Online? - 'Art in the Cloud' Panel Discussion of Ars Electronica 2021, Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with the technological innovations of their times. Art in the Cloud is curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions. How does today's online space contribute to, or limit, artistic creativity? What are some of the unexpected challenges that artists have encountered? What are some of the new potentials that emerge from the technological impediments we come across?, <i>Panel Discussion III: Interactivity and Immersion Online?</i>, online, 10-10 September 2021.</p>  |

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|  | <p>#MAK Wai Yee, BENAYOUN Maurice, BARAT Théodora , <u>CASSINELLI Alvaro</u>, CHAN Ka Chun Joseph, DONNARUMMA Marco , EREL Tuçe , FAN Kattie , GEIRINGER Jeffrey , GIMENO David Rodriguez , HOFFMANN Joanna , <u>IKESHIRO Ryo</u>, KEMP Jonathan , <u>KLEIN Tobias</u>, KOOK Vvzela , <u>LAI Chiu Han Linda</u>, <u>LC RAY</u>, LIN Pey-Chwen, MARFIN Alexey , MARIDET Cédric , NG Kingsley, #NG Royce Hong Sheng, PAU Ellen, RUIJTERS Vincent , TSENG Yu-Chuan , TSUI Brothers, UENO Ken, WONG Suk Yin Elaine, YIP Viola , Artist, Chairman, Curator, "Art in the Cloud - Online Exhibition of Ars Electronica 2021, Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with technological innovations of their times. Art in the Cloud is a curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions? How does today's online space contribute to, or limit artistic creativity? What are some of the unexpected challenges artists have encountered? and what are some of the new potentials that emerge from the technological impediments we come across?, <i>Art in the Cloud</i>, Online, 08-12 September 2021.</p> |
|  | <p>#MAK Wai Yee, BENAYOUN Maurice, <u>CASSINELLI Alvaro</u>, GEIRINGER Jeffrey , HOFFMANN Joanna , <u>KLEIN Tobias</u>, MARIDET Cédric , PAU Ellen, TSENG Yu-Chuan , UENO Ken, Artist, Chairman, Curator, "Panel Discussion II: Redefining Art Presentation in the Digital Era - 'Art in the Cloud' Panel Discussion of Ars Electronica 2021, Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with the technological innovations of their times. Art in the Cloud is curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions. How does today's online space contribute to, or limit, artistic creativity? What are some of the unexpected challenges that artists have encountered? What are some of the new potentials that emerge from the technological impediments we come across?, <i>Panel Discussion II: Redefining Art Presentation in the Digital Era</i>, Online, 09-09 September 2021.</p>  |
|  | <p>#MAK Wai Yee, BENAYOUN Maurice, <u>CHARRIERAS Damien</u>, EREL Tuçe , TSUI Brothers, <u>IKESHIRO Ryo</u>, WONG Suk Yin Elaine, RUIJTERS Vincent, YIP Viola , Artist, Chairman, Curator, "Panel Discussion I: How Online Shapes Art? - 'Art in the Cloud' Panel Discussions of Ars Electronica 2021 Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with technological innovations of their times. Art in the Cloud is a curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions? How does today's online space contribute to, or limit artistic creativity? What are some of the unexpected challenges artists have encountered? and what are some of the new potentials that emerge from the technological impediments we come across?, <i>Panel Discussion 1: How Online Shapes Art?</i>, Online , 08-08 September 2021.</p>  |
|  | <p>#MAK Wai Yee, BENAYOUN Maurice, #PARK So Young, Curator, "Ars Electronica 2021 Garden Hong Kong: Galactic Wine Sharing Party", The main aim of Garden Hong Kong this year is to capacitate such encounters of disparate worldviews, and we invite you to join us virtually with a glass of wine from the comfort of your own locations to co-create these casual, wine-infused dialogues. This year's event is officially supported by Ars Electronica to build on last year's quirky yet successful party, by actively connecting many gardens around the globe via this remote-sensory, on/offline experiment., <i>GALACTIC WINE SHARING PARTY</i>, Osage Gallery, Hong Kong , Hong Kong, 12-12 September 2021.</p>   |
|  | <p>#MAK Wai Yee, BENAYOUN Maurice, Chairman, Curator, "GARDEN HONG KONG @ OSAGE", Benayoun, M., Mak, Ann, Chair, Curator, " GARDEN HONG KONG @ OSAGE", Ars Electronica Garden Hong Kong, Neuro-Design Lab, ACIM, School of Creative Media, City University of Hong Kong, Hong Kong, Focal-Niam, Osage Art Foundation, Ars Electronica</p>  |

Section A: Publications of PhD Students

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|                                   | <p>2021, Linz, Austria, 12 -17 Sept 2021. , <i>Ars Electronica Festival 2021</i>, Osage Gallery, Hong Kong, 12-17 September 2021.</p> <p>#<a href="#">MAK Wai Yee</a>, <a href="#">BENAYOUN Maurice</a>, Chairman, Curator, "Art in the Cloud", Benayoun, M., Mak, Ann, Chair, Curator," Art in the Cloud", Online Exhibition, Ars Electronica Garden Hong Kong, Neuro-Design Lab, ACIM, School of Creative Media, City University of Hong Kong, Hong Kong, <i>Ars Electronica 2021</i>, Linz, Austria, 08 -12 Sept 2021., <i>Ars Electronica 2021</i>, Johannes Kepler University &amp; Online, Linz, Austria, 08-12 September 2021.</p> <p>#<a href="#">MAK Wai Yee</a>, <a href="#">BENAYOUN Maurice</a>, <a href="#">EREL Tuçe</a> , <a href="#">IKESHIRO Ryo</a>, <a href="#">RUIJTERS Vincent</a> , <a href="#">TSUI Brothers</a>, <a href="#">WONG Suk Yin Elaine</a>, <a href="#">YIP Viola</a> , <a href="#">GEIRINGER Jeffrey</a> , <a href="#">HOFFMANN Joanna</a> , <a href="#">KLEIN Tobias</a>, <a href="#">MARIDET Cédric</a> , <a href="#">PAU Ellen</a>, <a href="#">TSENG Yu-Chuan</a> , <a href="#">UENO Ken</a>, <a href="#">CHAN Ka Chun Joseph</a>, <a href="#">DONNARUMMA Marco</a> , <a href="#">GIMENO David Rodriguez</a> , <a href="#">KOOK Vvzela</a> , <a href="#">LC RAY</a>, <a href="#">LIN Pey-Chwen</a>, <a href="#">BARAT Théodora</a> , <a href="#">FAN Kattie</a> , <a href="#">KEMP Jonathan</a> , <a href="#">LAI Chiu Han Linda</a>, <a href="#">MARFIN Alexey</a> , <a href="#">NG Kingsley</a>, #<a href="#">NG Royce Hong Sheng</a>, <a href="#">CASSINELLI Alvaro</a>, Artist, Chairman, Curator, "Exhibition: Garden Hong Kong @ Osage", Garden Hong Kong @ Osage is a conclusion of <i>Ars Electronica Festival 2021 – Garden Hong Kong</i>, a 4-day finissage art exhibition curated by Ann Mak, showcasing the highlights of the Garden.</p> <p>The event includes a 360° video of the interactive AI installation “DialoG – The first Aliens’ encounter” by Refik Anadol and Maurice Benayoun; a robotic AI art installation by Maurice Benayoun (MoBen) “Power Chess” where the chess-playing robots are in fact, exploring the limits of human conflicts through gameplay; a documentation of the “Galactic Wine Sharing Party” hosted by Osage Gallery; as well as “Art in the Cloud” the online exhibition of 29 media artists from different parts of the world who are invited to each contribute a video of their artwork that responds to the inquiry on how art can be in line with the online., <i>GARDEN HONG KONG@Osage</i>, Osage Gallery, Hong Kong, Hong Kong, 14-17 September 2021.</p> |
| <p><b>MASLIC Anton Dragan</b></p> | <p>#<a href="#">MASLIC Anton Dragan</a>, Actor, "NerveLoop, Hong Kong Urban Machine Jazz", An animated film and sound piece, 5 minutes and 33 seconds, 4k, mp4</p> <p>The language of the city as a living entity has a hidden capacity to generate improvisational jazz as it is extracted throughout the city. Nerve Loop attempts to conjoin the seemingly disparate worlds of the city and jazz music into an animated short sound piece, asking what does the city intent to communicate?</p> <p>This work investigates the correlation between urban transportation systems and an organic nerve system. There is a fascinating resemblance that differs mainly in scale, time and format, but can be understood while observing these overlapping domains. Departing from an individual nerve system to a more mechanical, manmade nerve system of the city, new insights are found. The transportation of individuals and goods forms a narrative not dissimilar with the transportation of chemical and electrical signals. In that sense, we can observe or experience a complex city like Hong Kong as a living organism, where the existing transportation systems can be interpreted as the arteries and more precisely as the synaptic traffic within a nerve system. In this way, the city forms an analogy with the somatic existence of a living entity, where time and scale generate a different entity. If the city can be understood as a living organism, does it communicate something? and if so, what are its messages to us?</p> <p>, <i>20th Biennial of Art in Pančevo</i>, vartiouys venues Throughout the city, Pančevo, Serbia, 27 May - 27 June 2022.</p>  |
| <p><b>NAGASAKA Aki</b></p>        | <p>#<a href="#">NAGASAKA Aki</a>, <a href="#">HATTORI Hiroyuki</a>, <a href="#">YAMAMOTO Junji</a>, <a href="#">ABE Tsuyoshi</a>, <a href="#">SANO Yumiko</a>, "カムイワッカへ、そして私たちの始まりへ", An artwork catalogue consisting of three essays by an art curator and two scientists on the same-titled artwork exhibited at the Hokkaido University Museum, documentation showing the development of the project,</p>   |

Section A: Publications of PhD Students

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|  | <p>and a story component of the installation work. , カムイワツカへ・そして私たちの始まりへ, CAI03/Contemporary Art Institute , Sapporo, Japan, 21 September 2021.</p>   |
|  | <p>CALDANA Elisa, #NAGASAKA Aki, PEZZOLI Giulia, "Times of Crisis", A catalogue of the same-titled art exhibition by Elisa Caldana and Aki Nagasaka, held at Museum of Modern Art of Bologna MAMbo. It consists of an forward text by the museum director Lorenzo Balbi, a series of stories written by Caldana and Nagasaka, and an interview of Caldana and Nagasaka with the exhibition curator Giulia Pezzoli. , <i>Times of Crisis</i>, Edition Italian/English edition, Museum of Modern Art of Bologna MAMbo, ISBN: 978-88-96296-23-3, Italy, November 2021.</p>   |
|  | <p>#TIMURGALIEVA Olga, #HUANG Chen, #XU Feixuan, #PARK Ji Yun, #LEUNG Michael, #NAGASAKA Aki, #LIU Mankun, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p>  |
|  | <p>#HUANG Chen, #LEUNG Michael, #LIU Mankun, #NAGASAKA Aki, #PARK Ji Yun, #TIMURGALIEVA Olga, #XU Feixuan, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |
|  | <p>#NAGASAKA Aki, ABE Tsuyoshi, SANO Yumiko, WALKER Mark, TAKEDA Hiroshi, "藻類の時間軸 - 私たちの始まりへ", It is an exhibition catalogue of the same-titled exhibition held at the Hokkaido University Museum in the summer 2021. It was a collaborative exhibition between artistic and scientific fields, themed around Algae and the history and development of the world-leading algae research at the Hokkaido University. , 藻類の時間軸 - 私たちの始まりへ, 13 July 2021, 30 p.</p>  |

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| <p><b>NG Royce Hong Sheng</b></p> | <p>#<a href="#">MAK Wai Yee</a>, <a href="#">BENAYOUN Maurice</a>, <a href="#">BARAT Théodora</a>, <a href="#">CASSINELLI Alvaro</a>, <a href="#">CHAN Ka Chun Joseph</a>, <a href="#">DONNARUMMA Marco</a>, <a href="#">EREL Tuçe</a>, <a href="#">FAN Kattie</a>, <a href="#">GEIRINGER Jeffrey</a>, <a href="#">GIMENO David Rodriguez</a>, <a href="#">HOFFMANN Joanna</a>, <a href="#">IKESHIRO Ryo</a>, <a href="#">KEMP Jonathan</a>, <a href="#">KLEIN Tobias</a>, <a href="#">KOOK Vvzela</a>, <a href="#">LAI Chiu Han Linda</a>, <a href="#">LC RAY</a>, <a href="#">LIN Pey-Chwen</a>, <a href="#">MARFIN Alexey</a>, <a href="#">MARIDET Cédric</a>, <a href="#">NG Kingsley</a>, <a href="#">#NG Royce Hong Sheng</a>, <a href="#">PAU Ellen</a>, <a href="#">RUIJTERS Vincent</a>, <a href="#">TSENG Yu-Chuan</a>, <a href="#">TSUI Brothers</a>, <a href="#">UENO Ken</a>, <a href="#">WONG Suk Yin Elaine</a>, <a href="#">YIP Viola</a>, Artist, Chairman, Curator, "Art in the Cloud - Online Exhibition of Ars Electronica 2021, Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with technological innovations of their times. Art in the Cloud is a curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions? How does today's online space contribute to, or limit artistic creativity? What are some of the unexpected challenges artists have encountered? and what are some of the new potentials that emerge from the technological impediments we come across?, <i>Art in the Cloud</i>, Online, 08-12 September 2021.</p>  |
|                                   | <p>#<a href="#">NG Royce Hong Sheng</a>, Artist, "Presence", PRESENCE is a performance which responds to the constraints put upon live performance and international travel as a result of the COVID-19 pandemic and uses live-motion capture of the artists face in Hong Kong, projection mapped as a digital avatar onto the face of a performer in Europe through the design of a headset which allows the remote artist to see and hear the audience, move with the performer and have their 'presence' teleported into a geographically distant location. The premise of the piece is to test the limits of the audience's perception of the artist's virtual presence despite their physical absence given the minimal threshold of their technological representation in the theatre. The artist will give a performance lecture, which begins with an explanation of the concept of presence, which opens up the broader theme of having our experience of the world technologically determined by the software we use. This relation becomes more complex when those technologies involve the virtual teleportation of consciousness itself, as is the case with teleconferencing technologies like ZOOM. The performance lecture then opens up to become a 'conference', but where multiple subjectivities are allowed to inhabit the digital avatar of the artist, speaking through his voice, swapping his face and voice with their own. The performer removes the headset as the avatar becomes overwhelmed by the multiple subjectivities and the face becomes a glitching, datamoshed cacophony of competing identities and voices. The final part of the performance removes the artist's avatar and the performer's physical presence entirely, leaving only an empty theatre and a voice, where the theatre and its instruments become the performer itself, the lighting, sound and stage transforming into voice activated vectors for communicating the dissolved presence of the artist., 21 August 2021.</p> |
|                                   | <p>#<a href="#">MAK Wai Yee</a>, <a href="#">BENAYOUN Maurice</a>, <a href="#">REINHUBER Elke Evelin</a>, <a href="#">BARAT Théodora</a>, <a href="#">FAN Kattie</a>, <a href="#">KEMP Jonathan</a>, <a href="#">MARFIN Alexey</a>, <a href="#">NG Kingsley</a>, <a href="#">#NG Royce Hong Sheng</a>, <a href="#">CASSINELLI Alvaro</a>, Artist, Chairman, Curator, "Panel Discussion IV: At the Edge of Reality - 'Art in the Cloud' Panel Discussion of Ars Electronica 2021, Garden Hong Kong", The development of media art and the online art space are both tightly enmeshed with the technological innovations of their times. Art in the Cloud is curatorial research that explores how the sudden growth of online art spaces contributes to the transformation of the presentation of media artworks. Specifically, we question how inherent characteristics such as interactivity and immersion shift in online exhibitions. How does today's online space contribute to, or limit, artistic creativity? What are some of the unexpected challenges that artists have encountered? What are some of the new potentials that emerge from the technological impediments we come across?, <i>Panel Discussion IV: At the Edge of Reality</i>, online, 11-11 September 2021.</p>   |



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|                           | <p>#<a href="#">NG Royce Hong Sheng</a>, SMIRNOV Nikolay , DEMUTH Daniel James, Artist, "The Death of Manchuria...is the Prerequisite for the Birth of Postwar Asia", ASAKUSA is delighted to announce the opening of Royce Ng's solo exhibition "THE DEATH OF MANCHURIA...IS THE PREREQUISITE FOR THE BIRTH OF POST-WAR ASIA" from 30 July, 2021. Taking Shiro Ishii of Unit 731—Japan's covert biological and chemical warfare unit during WWII—and the Kyoto school philosopher Keiji Nishitani as dual protagonists—the “philosopher with a scalpel’, State Alchemist I: Body without Organs (2021) is a newly-commissioned essay film co-written with artist and curator Nikolay Smirnov and co-directed with filmmaker Daniel James Demuth. It employs theory fiction, the language of horror cinema and apocalyptic sci-fi, referencing Deleuze-Guattari, Buddhist-grounded Kyoto School, and current pandemic anxieties. Alongside, Ng's lecture performance Kishi the Vampire (2016) will be shown for the first time in Japan., <i>The Death of Manchuria...is the Prerequisite for the Birth of Post-war Asia</i>, ASAKUSA (online), Tokyo, Japan, 30 July - 05 September 2021.</p> <p>#<a href="#">MAK Wai Yee</a>, <a href="#">BENAYOUN Maurice</a>, <a href="#">EREL Tuçe</a> , <a href="#">IKESHIRO Ryo</a>, <a href="#">RUIJTERS Vincent</a> , <a href="#">TSUI Brothers</a>, <a href="#">WONG Suk Yin Elaine</a>, <a href="#">YIP Viola</a> , <a href="#">GEIRINGER Jeffrey</a>, <a href="#">HOFFMANN Joanna</a> , <a href="#">KLEIN Tobias</a>, <a href="#">MARIDET Cédric</a> , <a href="#">PAU Ellen</a>, <a href="#">TSENG Yu-Chuan</a> , <a href="#">UENO Ken</a>, <a href="#">CHAN Ka Chun Joseph</a>, <a href="#">DONNARUMMA Marco</a> , <a href="#">GIMENO David Rodriguez</a> , <a href="#">KOOK Vvzela</a> , <a href="#">LC RAY</a>, <a href="#">LIN Pey-Chwen</a>, <a href="#">BARAT Théodora</a> , <a href="#">FAN Kattie</a> , <a href="#">KEMP Jonathan</a> , <a href="#">LAI Chiu Han Linda</a>, <a href="#">MARFIN Alexey</a> , <a href="#">NG Kingsley</a>, #<a href="#">NG Royce Hong Sheng</a>, <a href="#">CASSINELLI Alvaro</a>, Artist, Chairman, Curator, "Exhibition: Garden Hong Kong @ Osage", Garden Hong Kong @ Osage is a conclusion of Ars Electronica Festival 2021 – Garden Hong Kong, a 4-day finissage art exhibition curated by Ann Mak, showcasing the highlights of the Garden.</p> <p>The event includes a 360° video of the interactive AI installation “DialoG – The first Aliens’ encounter” by Refik Anadol and Maurice Benayoun; a robotic AI art installation by Maurice Benayoun (MoBen) “Power Chess” where the chess-playing robots are in fact, exploring the limits of human conflicts through gameplay; a documentation of the “Galactic Wine Sharing Party” hosted by Osage Gallery; as well as “Art in the Cloud” the online exhibition of 29 media artists from different parts of the world who are invited to each contribute a video of their artwork that responds to the inquiry on how art can be in line with the online., <i>GARDEN HONG KONG@Osage</i>, Osage Gallery, Hong Kong, Hong Kong, 14-17 September 2021.</p> |
| <p><b>PARK Ji Yun</b></p> | <p>#<a href="#">PARK Ji Yun</a>, Exhibitor, "(Welcome to the) Planet of Orchids, WIP in And the Ship Sails On: art.practice.research - Research Progress Output Exhibition", Exhibited my work-in-process doctoral research '(Welcome to the) Planet of Orchids' at the group exhibition 'And the Ship Sails On: art.practice.research'.</p> <p>A collective effort of artists generating space for art-based research, embodied knowledge, and reflective practices amidst tumultuous times.</p> <p>Over the last few decades, the idea of artistic practice as a place of knowledge has become a more widely accepted notion. Today, artists produce not only artworks and performances but they use their practice as a starting point to conduct research and generate valid forms of knowledge. Recent challenges, however, have led to less than ideal conditions for the production of artistic research which in turn have made artist-researchers adapt and evolve in these uncertain times.</p> <p>In order to offer a place for artists to present their artistic practice as research and for the general public to better understand what artistic practice-as/based/led research is, NAO collective presents And the Ship Sails On at JCCAC 5-18 July 2021 to explore the idea of artistic practice as a place of and for knowledge. The collective currently consists of a group of students and alumni from Ph.D. programmes at School of Creative Media (City University of Hong Kong - CityU) and Academy of Visual Arts (Hong Kong Baptist University - HKBU). This is the first time that such a wide-scale collaboration is being initiated by the Ph.D. students and alumni of these schools. At the same time, And the</p>   |

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|  | <p>Ship Sails On is intended as an exercise in creating a space of dialogue among art research practitioners, the local community, and the wider public.</p> <p>Initiated by current Ph.D. students and recent graduates of local Hong Kong universities, this exhibition shows the possibilities of generating knowledge and meaning when artistic practice operates as research. , 05 July 2021.</p>  |
|  | <p>#TIMURGALIEVA Olga, #HUANG Chen, #XU Feixuan, #PARK Ji Yun, #LEUNG Michael, #NAGASAKA Aki, #LIU Mankun, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p>  |
|  | <p>#HUANG Chen, #LEUNG Michael, #LIU Mankun, #NAGASAKA Aki, #PARK Ji Yun, #TIMURGALIEVA Olga, #XU Feixuan, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |

Section A: Publications of PhD Students

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| <b>PARK So Young</b> | <p><u>YIP Ka Man</u>, <u>BENAYOUN Maurice</u>, #PARK So Young, Chairman, Curatorial Advisor, Producer, "Experts of the Future", Yip, Ch., Production team: Charlie Yip, Lisa, PARK So Young, Chaired by Benayoun, M., Protagonists: Iris Choi, Oskar Klein, "Garden Hong Kong, Experts of the Future", Festival Community Projects, Garden Hong Kong, Ars Electronica Festival 2021, Neuro Design Lab, ACIM, SCM, City University of Hong Kong, September 8-12, 2021., <i>Ars Electronica 2021</i>, Johannes Kepler University &amp; Online, Linz, Austria, 08-12 September 2021.</p>  |
|                      | <p><u>YIP Ka Man</u>, #PARK So Young, <u>BENAYOUN Maurice</u>, Artist, Chairman, Curatorial Advisor, "Taste Your Soil", Yip, Ch., The concept creator, camera operator and editor, Park, S.-Y., Curatorial Advisory, Maslić, T., Artistry Consultancy, Production Team &amp; Protagonists: Lisa, PARK So Young, Charlie Yip, Vvzela Kook, Sofie Zhang, Chaired by Benayoun, M., "Garden Hong Kong, Taste Your Soil", video, Community Projects, Garden Hong Kong, Ars Electronica Festival 2021, Neuro Design Lab, ACIM, SCM, City University of Hong Kong, September 8-12, 2021., <i>Ars Electronica 2021</i>, Johannes Kepler University &amp; Online, Linz, Austria, 08-12 September 2021.</p>  |
|                      | <p>#<u>MAK Wai Yee</u>, <u>BENAYOUN Maurice</u>, #PARK So Young, Curator, "Ars Electronica 2021 Garden Hong Kong: Galactic Wine Sharing Party", The main aim of Garden Hong Kong this year is to capacitate such encounters of disparate worldviews, and we invite you to join us virtually with a glass of wine from the comfort of your own locations to co-create these casual, wine-infused dialogues. This year's event is officially supported by Ars Electronica to build on last year's quirky yet successful party, by actively connecting many gardens around the globe via this remote-sensory, on/offline experiment., <i>GALACTIC WINE SHARING PARTY</i>, Osage Gallery, Hong Kong, Hong Kong, 12-12 September 2021.</p>                              |
|                      | <p><u>BENAYOUN Maurice</u>, #PARK So Young, Co-curator, Curator, "Artificial Intentionalities - Post-human Humanities in The Age Of The Art-Subject", Benayoun, M., Park, L. S.Y., Chief Curator, Co-curator, "Artificial Intentionalities: Post-human humanities in the age of theart-subject", Ars Electronica Garden Hong Kong, Neuro-Design Lab, ACIM, School of Creative Media, City University of Hong Kong, Hong Kong, Ars Electronica 2021, Linz, Austria, 08-12 Sept 2021., <i>Ars Electronica 2021</i>, 08-12 September 2021.</p>  |
|                      | <p><u>BENAYOUN Maurice</u>, #PARK So Young, Curator, "Galactic Wine Sharing Party", Benayoun, M., Park, L.S., Curators, "Galactic Wine Sharing Party", online showcase, Ars Electronica Garden Hong Kong, Neuro-Design Lab, ACIM, School of Creative Media, City University of Hong Kong, Hong Kong, Ars Electronica 2021, Linz, Austria, 12 Sept 2021., <i>Ars Electronica Festival 2021</i>, Osage Gallery, Hong Kong, 12-17 September 2021.</p>   |
| <b>QI Miaomiao</b>   | <p>#<u>QI Miaomiao</u>, "《好好拍電影》- 鏡頭前的導演許鞍華", <i>香港文學</i>, 香港文學出版社有限公司, Hong Kong, February 2022, pp 110-113.</p>  |
| <b>SIMON Lina</b>    | <p>LEHNER Anna, FREUNDLINGER Catrin, #<u>SIMON Lina</u>, Consultant, "Brise", Ein Wochenende in der Junihitze. Die Studentin Flora fährt zur Geburtstagsfeier ihrer Mutter. Zu Hause warten auch schon die familiären Verpflichtungen. Flora ist genervt, eigentlich sollte sie das Modell für die Uni fertig machen. Trotzdem paniert sie mit der Oma die Schnitzel und holt ihren Bruder vom Weggehen ab. Auf der Feier verteilt sie das Schlagobers, während die Gespräche um die Arbeitswelt und den kürzlich verstorbenen Opa mäandern. Inmitten schwitzender Gäste und leichter Generationskonflikte verschieben sich langsam die Prioritäten.<br/>(Anna Lehner), <i>Max Ophüls Preis 2022</i>, Saarbrücken, Germany, 16 January 2012 - 26 January 2022.</p> |

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|  | <p><u>IKESHIRO Ryo</u>, <u>#SIMON Lina</u>, <u>#GUI Ren</u>, Speaker, "DAT/ACT Artists' Session", Meet the curators and the artists</p> <p><i>Participants:</i><br/> Ryo Ikeshiro<br/> Lina Simon<br/> Gui Ren<br/> PerMagnus Lindborg<br/> Joyce Koh<br/> Hiromi Okumura<br/> Valerie Williams<br/> Jenn Kirby<br/> Morgan Jenks<br/> Vincent Ruijters<br/> Lukasz Mirocha</p> <hr/> <p><b>DAT/ACT Data Art for Climate Action Gallery</b><br/> DAT/ACT brings together a collection of artworks responding to climate change, the defining crisis of our time., <i>Data Art for Climate Action (DACA 2022)</i>, Online, Hong Kong, 23-26 February 2022.</p>   |
|  | <p><u>LC RAY</u>, <u>RUIJTERS Vincent</u>, <u>IKESHIRO Ryo</u>, <u>#SIMON Lina</u>, <u>#GUI Ren</u>, <u>#SONG Zijing</u>, Actor, Artist, Co-curator, Curator, Curatorial Advisor, "Chikyuchi and Drizzle @ DAT/ACT Data Art for Climate Action Gallery", 2022.</p>  |
|  | <p><u>IKESHIRO Ryo</u>, <u>#SIMON Lina</u>, <u>#GUI Ren</u>, Co-curator, Curator, Producer, "DAT/ACT Data Art for Climate Action Gallery", DAT/ACT brings together a collection of artworks responding to climate change, the defining crisis of our time. , <i>Data Art for Climate Action (DACA 2022)</i>, Online, Hong Kong, 23-26 February 2022.</p>  |
|  | <p><u>#SIMON Lina</u>, Artist, "UNTITLED - Sound Envelope HK-LDN / SPARK Festival", <i>Bamboo, Willow, Water, Wind, AirCon, Plastic</i></p> <p><i>Field Recordings LDN/HK:</i><br/> Christine Bramwell<br/> Dereck De Abreu Coelho<br/> Longman Luk<br/> Mathias Arrignon<br/> Lina Simon</p> <hr/> <p><b>Soundscape/Visualisation as Part of "Sound Envelope HK-LDN"</b><br/> <b>聲音信封 香港-倫敦 - 聲音藝術體驗</b><br/> Making and exchanging field recordings and soundscapes between Hong Kong and London: Virtual exhibition as part of SPARK 2021 online festival supported by the British Council. Led by Ryo Ikeshiro (SoundLab, School of Creative Media, City University of Hong Kong) and Tom Tlalim (Creative Research, Wimbledon College of Arts, University of the Arts London), with Dawn Scarfe and András Blazsek.</p> <p>, <i>SPARK 2021 Festival</i>, Online, London / Hong Kong, 20-23 October 2021.</p> |
|  | <p><u>#SIMON Lina</u>, <u>FONG Ka Sin</u>, Designer, "DAT/ACT Posters and Key Visual Design", <b>DAT/ACT Data Art for Climate Action Gallery</b><br/> DAT/ACT brings together a collection of artworks responding to climate change, the defining crisis of our time., 23 February 2022.</p>  |

Section A: Publications of PhD Students

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| <p><b>SONG Zijing</b></p>       | <p><u>LC RAY</u>, RUIJTERS Vincent, <u>IKESHIRO Ryo</u>, <u>#SIMON Lina</u>, <u>#GUI Ren</u>, <u>#SONG Zijing</u>, Actor, Artist, Co-curator, Curator, Curatorial Advisor, "Chikyuchi and Drizzle @ DAT/ACT Data Art for Climate Action Gallery", 2022.</p>  |
|                                 | <p><u>LC RAY</u>, <u>#SONG Zijing</u>, Curator, Curatorial Advisor, "Exhibition: Prismatic @ CityU SCM MFA JCCAC", 2021.</p>   |
|                                 | <p><u>LC RAY</u>, GROß-VOGT Katharina, <u>#SONG Zijing</u>, Actor, Artist, "Drizzle @ University of Graz Wegener Center for Climate Change", 2022.</p>   |
| <p><b>TIMURGALIEVA Olga</b></p> | <p><u>#TIMURGALIEVA Olga</u>, <u>#HUANG Chen</u>, <u>#XU Feixuan</u>, <u>#PARK Ji Yun</u>, <u>#LEUNG Michael</u>, <u>#NAGASAKA Aki</u>, <u>#LIU Mankun</u>, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> <p><u>#HUANG Chen</u>, <u>#LEUNG Michael</u>, <u>#LIU Mankun</u>, <u>#NAGASAKA Aki</u>, <u>#PARK Ji Yun</u>, <u>#TIMURGALIEVA Olga</u>, <u>#XU Feixuan</u>, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |
| <p><b>XU Feixuan</b></p>        | <p><u>#TIMURGALIEVA Olga</u>, <u>#HUANG Chen</u>, <u>#XU Feixuan</u>, <u>#PARK Ji Yun</u>, <u>#LEUNG Michael</u>, <u>#NAGASAKA Aki</u>, <u>#LIU Mankun</u>, Speaker, "Round Table - Multiple/Species Encounters", Seven humans from Wanwu Practice Group, who are currently situated in different parts of the world, will present their research with multiple (non-)species and fieldwork in multiple sites. Wanwu invites the public to join the discussion and contribute to 'myriad'-thinking amidst planetary devastation., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p>  |

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|  | <p>#HUANG Chen, #LEUNG Michael, #LIU Mankun, #NAGASAKA Aki, #PARK Ji Yun, #TIMURGALIEVA Olga, #XU Feixuan, Artist, "The Wanwu Library", The Wanwu Practice Group showcases a zine library comprising writings and visuals from multi-species art practice and research, accompanied by a series of tours and talks. Michael LEUNG shares the wisdom of Wang Chau villagers during a government eviction. Feixuan XU presents part of her fieldwork with sericulturists and an artist in China in the format of texts and large posters of silkworm-related fabrics, while PARK Ji Yun PARK shares her research notes on Orchids' symbiotic relationship and life span. Sarah HUANG tells the stories of edible weeds from a historical perspective, while Olga TIMURGALIEVA discusses techniques of art practice with yeast. Aki NAGASAKA reflects on her own art practice and how it guided her to research hybrid &lt;human—more-than human&gt; communities in Hokkaido. Mankun LIU contrasts contemporary art imageries and materials drawn from other systems of knowledge in light of contemporary art theories and criticism. We are living in a world of "Wanwu" [萬物] the myriad things — a complicated multiplicity of species and cultures. Daoist philosophy tells us that the difference and plurality of multiplicity should be understood in light of continuity. Everything exists in an intrinsic and constitutive correlation, in which nothing could stay intact when the relationships change. As Roger T. Ames introduces, Daoist philosophy leads us to a new vision that prioritizes process and changes over form and stasis, situation over agency, historia and mythos over logos, narrative over analysis, contingent and negotiated harmony over deterministic and necessary teleology, a dynamic radial center over boundaries. About the group The Wanwu Practice Group is composed of artists-scholars learning to live on Earth and contribute to its vibrancy. Inspired by wanwu—myriad happenings, they value both knowledge and practice. The Wanwu Practice Group draws on Indigenous wisdom, activist experiences, ecological research, and theoretical reflections. Based at the School of Creative Media, City University of Hong Kong, Wanwu focuses on art and ecology in East Asia. Members: Sarah HUANG, Michael LEUNG, Mankun LIU, Aki NAGASAKA, PARK Ji Yun, Olga TIMURGALIEVA, Feixuan XU., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p> |
| <p><b>YANG Jing</b></p>                                      | <p>#YANG Jing, Producer, "游托邦 - 游戏现场", Gtopia: The Game Site does not provide a systematic framework, nor does it take a macro view of the "game" mammoth. Instead, we look at everyday life and focus on the 19 indie games that are likely to appear on Chinese people's phones and computers in the 2020s. What are these games? Why are they in front of us? When and where were they born, and how many people and events did they pass through before coming to our electronic devices? These games meet us in one live site after another, and "Gtopia: Game Site" is to lift the curtain and look inside, showing the whole system and subsystem of development, production, distribution and consumption, as well as some anomalies scattered outside the system., <i>Gtopia: Game Site</i>, 油罐艺术中心 (Tank Shanghai), Shanghai, China, 30 December 2021 - 13 March 2022.</p>  |
| <p><b>ZHANG Yujia</b></p>                                    | <p>#ZHANG Yujia, SUN Zhouye, Artist, "For Her", The video installation For Her addresses the issue of the induced unbalanced birth sex ratio in China. In the video, the Chinese characters for woman [女] and people/men [人], as well as other characters in which these function as radicals, are used to form moving ultrasound images of babies. Visitors witness the loss of baby girls from the fading of the characters with women radicals. Chinese words with 女 radicals hang from above, and red and blue test tubes show patterns representing the chromosomes X and Y., <i>And the Ship Sails On: art. practice. research</i>, Gallery L0, Jockey Club Creative Arts Centre, Hong Kong, China, 05-18 July 2021.</p>  |
| <p><b>Patents, agreements, assignments and companies</b></p> |   |
| <p><b>CHEN Taizhou</b></p>                                   | <p>ZHU Kening, #CHEN Taizhou, HAN Feng, WU Yi-Shiun, Systems and Methods for Creating Haptic Proxies for Use in Virtual Reality, Patent No.: US11,144,112, United States, 12 October 2021.</p>  |

Section A: Publications of PhD Students

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|                                     | <u>ZHU Kening</u> , # <u>CHEN Taizhou</u> , <u>XU Xianshan</u> , # <u>XU Lantian</u> , "A Human-interface-device (HID) And A Method for Controlling An Electronic Device Based on Gestures, And A Virtual-reality (VR) Head-mounted Display Apparatus", Licensing Agreement with Deeptech (including Greentech), Hong Kong, 02 June 2022.  |
|                                     | <u>ZHU Kening</u> , # <u>CHEN Taizhou</u> , HAN Feng, WU Yi-Shiun, "Systems and Methods for Creating Haptic Proxies for Use in Virtual Reality", Licensing Agreement with Fintech, Hong Kong, 30 July 2021.  |
| <b>XU Lantian</b>                   | <u>ZHU Kening</u> , # <u>CHEN Taizhou</u> , <u>XU Xianshan</u> , # <u>XU Lantian</u> , "A Human-interface-device (HID) And A Method for Controlling An Electronic Device Based on Gestures, And A Virtual-reality (VR) Head-mounted Display Apparatus", Licensing Agreement with Deeptech (including Greentech), Hong Kong, 02 June 2022.  |
| <b>All other outputs</b>            |  |
| <b>CHEN Yilan</b>                   | # <u>CHEN Yilan</u> , <i>Sketching Interfaces with Structure and Context Cues</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.  |
| <b>CHUNG Yik Ki</b>                 | # <u>CHUNG Yik Ki</u> , <i>Contextualising Virtual Pilgrimage in Buddhism</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 10 November 2021.  |
| <b>ECKHOFF Daniel</b>               | # <u>ECKHOFF Daniel</u> , # <u>DOERING Aaron</u> , <u>HAEBICH Jayson Kym</u> , Fintech Olympiad 2022 - Bronze & Award of Distinction, May 2022.  |
| <b>HORN Benjamin James Marshall</b> | # <u>HORN Benjamin James Marshall</u> , <i>Questing with the Witcher: A New Model for the Critical Analysis of Narrative Games</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 22 November 2021.   |
| <b>HUANG Ariel</b>                  | # <u>HUANG Ariel</u> , <i>Musical Play: Reconciling Music Production with Music Performance</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 20 December 2021.  |
| <b>KAISER Christine Maria</b>       | # <u>KAISER Christine Maria</u> , <i>New Spaces of Shenzhen - An Analytical Examination of the Curatorial Discourses in the Art Spaces of Shenzhen</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 07 July 2021.   |
| <b>KE Xiaobo</b>                    | # <u>KE Xiaobo</u> , <i>Beyond IT-enabled Gaming: Esports as a "Serious" Form of Digital Play</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 01 April 2022.   |
| <b>LI Ruohan</b>                    | # <u>LI Ruohan</u> , <i>From "Creative Auteur" to "Broiler Chicken": An Investigation into the Process of Chinese Wanghong Industrialization</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 10 December 2021.   |
| <b>LIM Yeon-Kyoung</b>              | # <u>LIM Yeon-Kyoung</u> , <i>Human-Phone Assemblage: A Study of Human-Mobile Phone Intimacy</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 07 June 2022.   |
| <b>LIU Mankun</b>                   | # <u>LIU Mankun</u> , "嫉妒的谱系学 · 困难的原住民性: 卡拉宾电影小组", The article reviews the practice of the Karrabing Film Collective in relation to different conception of Jealousy in colonial and Aboriginal Australian contexts., LEAP Magazine, China, 16 December 2021.  |
|                                     | # <u>LIU Mankun</u> , "内部的流动: "明日笔记"巡回展 III", This article reviews the itinerary exhibition "Notes for Tomorrow" initiated by Independent Curators International, held at the Sifang Art Museum, Nanjing China, Ocula, China, 07 October 2021.   |
| <b>NAGASAKA Aki</b>                 | # <u>NAGASAKA Aki</u> , CALDANA Elisa, Art Grant for International Activities , This prize is give by Nomura Foundation to artists who conduct activities such as hold exhibitions and research abroad. The prize was given to the artist-duo Elisa Caldana and Aki Nagasaka as a support for their solo exhibition held at Museum of Modern Art of Bologna. , Nomura Foundation , 11 August 2021. |
| <b>NASSER Arshad</b>                | # <u>NASSER Arshad</u> , <i>'Touching for Knowing': Design and Evaluation of Wearable and Graspable Haptic Devices for the People with Visual Impairment</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 26 May 2022.  |
| <b>PARK So Young</b>                | # <u>PARK So Young</u> , <i>Decentralizing Contemporary Media Art-world Through the Lens of Eastern Metaphysics</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 19 January 2022.   |

Section A: Publications of PhD Students

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| <b>RIZALDI Syahriar Tri</b>   | # <b>RIZALDI Syahriar Tri</b> , <i>Politics of Cassiterite: Mapping the Value of Tin as Material through Psychogeophysics of Bangka Island</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 09 February 2022.   |
| <b>RUAN Lingyan</b>           | # <b>RUAN Lingyan</b> , <i>Deep Restoration of All-in-focus Images Using Light Field-based Dataset</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 11 November 2021.   |
| <b>SHIN Gyung Jin</b>         | # <b>SHIN Gyung Jin</b> , <i>Crypto-dividuals: Theory, Historiography, and Case Studies of Postdigital Participatory Art</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 21 June 2022.   |
| <b>SIMON Lina</b>             | AGCAL Bengi, # <b>SIMON Lina</b> , LINDLEY Joseph, "Story C: Climate Fiction / ICIDS", <i>The Land of Palm has been very generous to the people who kiss it ten times per day</i> .<br><br>Climate Fiction as Part of "Climate Fiction For Social Purpose @ ICIDS 2021, Tallinn", 07 December 2021.  |
| <b>SU Wanchao</b>             | # <b>SU Wanchao</b> , <i>Sketch-Based Image Synthesis with Deep Generative Networks</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 11 August 2021.  |
| <b>TIMURGALIEVA Olga</b>      | # <b>TIMURGALIEVA Olga</b> , Student Opportunity Fund 2021-2022 Certificate of Participation, The Student Opportunity Fund gives King's students the opportunity to undertake educational projects or initiatives, that will transform or enable their future career and study aspirations. The fund allows King's students to collaborate with each other and the wider King's community. Previous activities include courses, conferences, internships, volunteering, and research projects., King's College London, 2022. |
| <b>WANG Xiao</b>              | # <b>WANG Xiao</b> , <i>Using Implicit Interaction to Enhance the Applicability of EEG-based Brain-Computer Interface for Untrained Users</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 03 May 2022.   |
| <b>XU Feixuan</b>             | # <b>XU Feixuan</b> , <i>Liang Shaoji's Silkworm Art as Rituals of "Ziran": Agency and Techniques</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 16 December 2021.  |
| <b>YE Hui</b>                 | # <b>YE Hui</b> , <i>3D Content and Interaction Prototyping with Mobile Augmented Reality</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 28 June 2022.  |
| <b>ZHANG Jing</b>             | # <b>ZHANG Jing</b> , <i>Reinventing Characters: Word-related Artworks in Chinese Contemporary Art Since 2000</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 11 February 2022.  |
| <b>ZHANG Yujia</b>            | # <b>ZHANG Yujia</b> , <i>On Building the Public Self through Expressive Media. A Case Study: The New Media Artist's Public Image</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 17 January 2022.   |
| <b>ZHANG Zimu</b>             | # <b>ZHANG Zimu</b> , <i>Anthropocene Visuality and Countervisuality in Contemporary Chinese Visual Culture</i> , PhD Thesis, School of Creative Media, City University of Hong Kong, Hong Kong, PRC, 17 February 2022.  |
| <b>SCHOOL OF DATA SCIENCE</b> |  |
| <b>Journal publications</b>   |  |
| <b>CAI Zhiqiang</b>           | # <b>CAI Zhiqiang</b> , LIN Ling, <b>ZHOU Xiang</b> , "Learn Quasi-Stationary Distributions of Finite State Markov Chain", <i>Entropy</i> , 24(1), 17 January 2022, doi: <a href="https://doi.org/10.3390/e24010133">https://doi.org/10.3390/e24010133</a> .   |
| <b>CHEN Liuyin</b>            | # <b>CHEN Liuyin</b> , <b>QI Haoyang</b> , LU Di, ZHAI Jianxue, CAI Kaican, WANG Long, LIANG Guoyuan, <b>ZHANG Zijun</b> , "A deep learning based CT image analytics protocol to identify lung adenocarcinoma category and high-risk tumor area", <i>STAR Protocols</i> , 3(3), 22 June 2022, doi: <a href="https://doi.org/10.1016/j.xpro.2022.101485">https://doi.org/10.1016/j.xpro.2022.101485</a> .   |



Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | #CHEN Liuyin, <u>QI Haoyang</u> , LU Di, ZHAI Jianxue, CAI Kaican, WANG Long, LIANG Guoyuan, <u>ZHANG Zijun</u> , "Machine vision-assisted identification of the lung adenocarcinoma category and high-risk tumor area based on CT images", <i>Patterns</i> , 3(4), 03 March 2022, doi: <a href="https://doi.org/10.1016/j.patter.2022.100464">https://doi.org/10.1016/j.patter.2022.100464</a> .  |
| <b>CHENG Weibin</b> | #CHENG Weibin, ZHAO Na, QIN Yiru, TIAN Junzhang, HUANG Yongshun, "Mass testing to support sustained containment of COVID-19", <i>Journal of Global Health</i> , 11, 02 October 2021, doi: <a href="https://doi.org/10.7189/jogh.11.03114">https://doi.org/10.7189/jogh.11.03114</a> .  |
|                     | #CHENG Weibin, LIAN Wanmin, TIAN Junzhang, "Building the hospital intelligent twins for all-scenario intelligence health care", <i>Digital Health</i> , 8, 12 June 2022, doi: <a href="https://doi.org/10.1177/20552076221107894">https://doi.org/10.1177/20552076221107894</a> .  |
|                     | #JING Fengshi, REN Hao, #CHENG Weibin, WANG Xin, <u>ZHANG Qingpeng</u> , "Knowledge-enhanced attentive learning for answer selection in community question answering systems", <i>Knowledge-Based Systems</i> , 250, 28 May 2022, doi: <a href="https://doi.org/10.1016/j.knsys.2022.109117">https://doi.org/10.1016/j.knsys.2022.109117</a> .   |
|                     | #JING Fengshi, #YE Yang, ZHOU Yi, #ZHOU Hanchu, XU Zhongzhi, LU Ying, TAO Xiaoyu, YANG Shujuan, #CHENG Weibin, TIAN Junzhang, TANG Weiming, WU Dan, "Modelling the geographical spread of HIV among MSM in Guangdong, China: a metapopulation model considering the impact of pre-exposure prophylaxis", <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 380(2214), 22 November 2021, doi: <a href="https://doi.org/10.1098/rsta.2021.0126">https://doi.org/10.1098/rsta.2021.0126</a> . |
| <b>FEI Zicheng</b>  | #FEI Zicheng, <u>ZHANG Zijun</u> , YANG Fangfang, TSUI Kwok Leung, LI Lishuai, "Early-stage lifetime prediction for lithium-ion batteries: A deep learning framework jointly considering machine-learned and handcrafted data features", <i>Journal of Energy Storage</i> , 52(B), 02 June 2022, doi: <a href="https://doi.org/10.1016/j.est.2022.104936">https://doi.org/10.1016/j.est.2022.104936</a> .  |
| <b>GUO Mengzhuo</b> | #GUO Mengzhuo, XU Zhongzhi, <u>ZHANG Qingpeng</u> , LIAO Xiuwu, LIU Jiapeng, "Deciphering Feature Effects on Decision-Making in Ordinal Regression Problems: An Explainable Ordinal Factorization Model", <i>ACM Transactions on Knowledge Discovery from Data</i> , 16(3), 22 October 2021, doi: <a href="https://doi.org/10.1145/3487048">https://doi.org/10.1145/3487048</a> .  |
| <b>HAN Xiao</b>     | ZHANG Yan, SHEN Guojiang, #HAN Xiao, WANG Wei, KONG Xiangjie, "Spatio-Temporal Digraph Convolutional Network Based Taxi Pick-Up Location Recommendation", <i>IEEE Transactions on Industrial Informatics</i> , 10 June 2022, doi: <a href="https://doi.org/10.1109/TII.2022.3181045">https://doi.org/10.1109/TII.2022.3181045</a> .  |
|                     | SHEN Guojiang, #HAN Xiao, <u>CHIN Kwai Sang</u> , KONG Xiangjie, "An Attention-Based Digraph Convolution Network Enabled Framework for Congestion Recognition in Three-Dimensional Road Networks", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 24 November 2021, doi: <a href="https://doi.org/10.1109/TITS.2021.3128494">https://doi.org/10.1109/TITS.2021.3128494</a> .   |
| <b>HE Chaocheng</b> | #XIE Ruiyao, #HE Chaocheng, QIAO Shan, LI Xiaoming, WU Jiang, TANG Weiming, CUI Wentian, <u>ZHANG Qingpeng</u> , "The impacts of Centers for AIDS Research program and its enlargement on HIV/AIDS research collaboration", <i>Science and Public Policy</i> , 11 May 2022, doi: <a href="https://doi.org/10.1093/scipol/scac021">https://doi.org/10.1093/scipol/scac021</a> .   |
| <b>HSU Yu Cheng</b> | #HSU Yu Cheng, WANG Hailiang, ZHAO Yang, <u>CHEN Youhua Frank</u> , TSUI Kwok Leung, "Automatic Recognition and Analysis of Balance Activity in Community-Dwelling Older Adults: Algorithm Validation", <i>Journal of Medical Internet Research</i> , 23(12), 20 December 2021, doi: <a href="https://doi.org/10.2196/30135">https://doi.org/10.2196/30135</a> .   |
| <b>HU Yang</b>      | #HU Yang, WU Feng, <u>YANG Yu</u> , LIU Yongkui, "Tackling temporal-dynamic service composition in cloud manufacturing systems: A tensor factorization-based two-stage approach", <i>Journal of Manufacturing Systems</i> , 63, April 2022, pp 593-608, doi: <a href="https://doi.org/10.1016/j.jmsy.2022.05.008">https://doi.org/10.1016/j.jmsy.2022.05.008</a> .   |
| <b>JING Fengshi</b> | #JING Fengshi, REN Hao, #CHENG Weibin, WANG Xin, <u>ZHANG Qingpeng</u> , "Knowledge-enhanced attentive learning for answer selection in community question answering systems", <i>Knowledge-Based Systems</i> , 250, 28 May 2022, doi: <a href="https://doi.org/10.1016/j.knsys.2022.109117">https://doi.org/10.1016/j.knsys.2022.109117</a> .   |
|                     | ZHOU Yi, LU Ying, NI Yuxin, WU Dan, HE Xi, ONG Jason J., TUCKER Joseph D., SYLVIA Sean Y., #JING Fengshi, LI Xiaofeng, HUANG Shanzi, SHEN Guangquan, XU Chen, XIONG Yuan, SHA Yongjie, CHENG Mengyuan, XU Junjie, JIANG Hongbo, DAI Wencan, HUANG Liqun, ZOU Fei, WANG Cheng, YANG Bin, MEI Wenhua, TANG Weiming, "Monetary incentives   |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | <p>and peer referral in promoting secondary distribution of HIV self-testing among men who have sex with men in China: A randomized controlled trial", <i>PLoS Medicine</i>, 19(2), 14 February 2022, doi: <a href="https://doi.org/10.1371/journal.pmed.1003928">https://doi.org/10.1371/journal.pmed.1003928</a>.</p> <p>LU Ying, NI Yuxin, WANG Qianyun, #JING Fengshi, ZHOU Yi, HE Xi, HUANG Shanzi, DAI Wencan, WU Dan, TUCKER Joseph D., JIANG Hongbo, HUANG Liqun, TANG Weiming, "Effectiveness of sexual health influencers identified by an ensemble machine learning model in promoting secondary distribution of HIV self-testing among men who have sex with men in China: study protocol for a quasi-experimental trial", <i>BMC Public Health</i>, 21(1), 28 September 2021, doi: <a href="https://doi.org/10.1186/s12889-021-11817-2">https://doi.org/10.1186/s12889-021-11817-2</a>.</p> <p>#JING Fengshi, ZHANG Qingpeng, ONG Jason J., XIE Yewei, NI Yuxin, CHENG Mengyuan, HUANG Shanzi, ZHOU Yi, TANG Weiming, "Optimal resource allocation in HIV self-testing secondary distribution among Chinese MSM: data-driven integer programming models", <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i>, 380(2214), 22 November 2021, doi: <a href="https://doi.org/10.1098/rsta.2021.0128">https://doi.org/10.1098/rsta.2021.0128</a>.</p> <p>#JING Fengshi, #YE Yang, ZHOU Yi, #ZHOU Hanchu, XU Zhongzhi, LU Ying, TAO Xiaoyu, YANG Shujuan, #CHENG Weibin, TIAN Junzhang, TANG Weiming, WU Dan, "Modelling the geographical spread of HIV among MSM in Guangdong, China: a metapopulation model considering the impact of pre-exposure prophylaxis", <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i>, 380(2214), 22 November 2021, doi: <a href="https://doi.org/10.1098/rsta.2021.0126">https://doi.org/10.1098/rsta.2021.0126</a>.</p> |
| <b>LI Jicheng</b>   | #LI Jicheng, TAN Peng, QIN S Joe, "LSTM and Statistical Learning for Dynamic Inferential Modeling with Applications to a 660MW Boiler", <i>IFAC-PapersOnLine</i> , 55(7), 2022, pp 600-605, doi: <a href="https://doi.org/10.1016/j.ifacol.2022.07.509">https://doi.org/10.1016/j.ifacol.2022.07.509</a> .   |
| <b>LIN Yu</b>       | #LIN Yu, LI Lishuai, REN Pan, WANG Yanjun, SZETO W.Y., "From aircraft tracking data to network delay model: A data-driven approach considering en-route congestion", <i>Transportation Research Part C: Emerging Technologies</i> , 131, 19 August 2021, pp 103329, doi: <a href="https://doi.org/10.1016/j.trc.2021.103329">https://doi.org/10.1016/j.trc.2021.103329</a> .   |
|                     | #ZHU Xinting, #LIN Yu, HE Yuxin, TSUI Kwok Leung, CHAN Pak Wai, LI Lishuai, "Short-Term Nationwide Airport Throughput Prediction With Graph Attention Recurrent Neural Network", <i>Frontiers in Artificial Intelligence</i> , 5, 13 June 2022, doi: <a href="https://doi.org/10.3389/frai.2022.884485">https://doi.org/10.3389/frai.2022.884485</a> .   |
| <b>LIU Hong</b>     | ZHANG Zizhen, #LIU Hong, ZHOU MengChu, WANG Jiahai, "Solving Dynamic Traveling Salesman Problems With Deep Reinforcement Learning", <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 14 September 2021, doi: <a href="https://doi.org/10.1109/TNNLS.2021.3105905">https://doi.org/10.1109/TNNLS.2021.3105905</a> .   |
| <b>LIU Yiren</b>    | QIN S Joe, #LIU Yiren, "A stable Lasso algorithm for inferential sensor structure learning and parameter estimation", <i>Journal of Process Control</i> , 107, 26 October 2021, pp 70-82, doi: <a href="https://doi.org/10.1016/j.jprocont.2021.10.005">https://doi.org/10.1016/j.jprocont.2021.10.005</a> .   |
| <b>MAO Tong</b>     | #MAO Tong, #SHI Zhongjie, ZHOU Dingxuan, "Theory of deep convolutional neural networks III: Approximating radial functions", <i>Neural Networks</i> , 144, 06 October 2021, pp 778-790, doi: <a href="https://doi.org/10.1016/j.neunet.2021.09.027">https://doi.org/10.1016/j.neunet.2021.09.027</a> .   |
| <b>MO Zhenling</b>  | #MO Zhenling, ZHANG Zijun, TSUI Kwok Leung, "The variational kernel-based 1-D convolutional neural network for machinery fault diagnosis", <i>IEEE Transactions on Instrumentation and Measurement</i> , 70, 16 August 2021, doi: <a href="https://doi.org/10.1109/TIM.2021.3105252">https://doi.org/10.1109/TIM.2021.3105252</a> .  |
| <b>SHI Zhongjie</b> | #YU Zhan, HO Wing Cheong Daniel, #SHI Zhongjie, ZHOU Dingxuan, "Robust kernel-based distribution regression", <i>Inverse Problems</i> , 37(10), 21 September 2021, doi: <a href="https://doi.org/10.1088/1361-6420/ac23c3">https://doi.org/10.1088/1361-6420/ac23c3</a> .  |
|                     | #MAO Tong, #SHI Zhongjie, ZHOU Dingxuan, "Theory of deep convolutional neural networks III: Approximating radial functions", <i>Neural Networks</i> , 144, 06 October 2021, pp 778-790, doi: <a href="https://doi.org/10.1016/j.neunet.2021.09.027">https://doi.org/10.1016/j.neunet.2021.09.027</a> .   |
| <b>SU Junyan</b>    | LIN Qiulin, MO Yanfang, #SU Junyan, CHEN Minghua, "Competitive Online Optimization with Multiple Inventories: A Divide-and-Conquer Approach", <i>Proceedings of the ACM on Measurement and Analysis of Computing Systems</i> , 6(2), 06 June 2022, doi: <a href="https://doi.org/10.1145/3530902">https://doi.org/10.1145/3530902</a> .  |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
| <b>WANG Maolin</b>  | #LI Xiaopeng, #WANG Maolin, SO Hing Cheung, "An Interpretable Bi-Branch Neural Network for Matrix Completion", <i>Signal Processing</i> , 200, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.sigpro.2022.108640">https://doi.org/10.1016/j.sigpro.2022.108640</a> .  |
| <b>WANG Tiange</b>  | #WANG Tiange, ZHANG Zijun, TSUI Kwok Leung, "A Deep Generative Approach for Rail Foreign Object Detections via Semi-supervised Learning", <i>IEEE Transactions on Industrial Informatics</i> , 09 February 2022, doi: <a href="https://doi.org/10.1109/TII.2022.3149931">https://doi.org/10.1109/TII.2022.3149931</a> .<br>#WANG Tiange, ZHANG Zijun, YANG Fangfang, TSUI Kwok Leung, "Automatic Rail Component Detection Based on AttnConv-net", <i>IEEE Sensors Journal</i> , 22(3), 03 December 2021, pp 2379-2388, doi: <a href="https://doi.org/10.1109/JSEN.2021.3132460">https://doi.org/10.1109/JSEN.2021.3132460</a> .  |
| <b>XIE Ruiyao</b>   | #XIE Ruiyao, #HE Chaocheng, QIAO Shan, LI Xiaoming, WU Jiang, TANG Weiming, CUI Wentian, ZHANG Qingpeng, "The impacts of Centers for AIDS Research program and its enlargement on HIV/AIDS research collaboration", <i>Science and Public Policy</i> , 11 May 2022, doi: <a href="https://doi.org/10.1093/scipol/scac021">https://doi.org/10.1093/scipol/scac021</a> .   |
| <b>XU Jicang</b>    | AN Xiaomi, #XU Jicang, WANG Lili, HUANG Jie, "Composing a Smart City Data Use Framework Responding to Public Health Emergencies", <i>Journal of Information Resources Management</i> , 12(3), 26 May 2022, pp 44-62, doi: <a href="https://doi.org/10.13365/j.jirm.2022.03.044">https://doi.org/10.13365/j.jirm.2022.03.044</a> .<br>HUANG Jie, AN Xiaomi, #XU Jicang, WANG Lili, "基于国际标准的“数据利用”核心概念及概念体系研究", <i>图书情报知识</i> , 38(5 (总第 203 期)), 2021, pp 48-62.<br>李琳琳, HOU Weizhen, #XU Jicang, "供应链视角下的信息咨询服务质量评估研究", <i>中国管理信息化</i> , 24(13), July 2021, pp 107-110.<br>AN Xiaomi, #XU Jicang, HUANG Jie, WANG Lili, BAI Wenlin, "政府数据治理与利用能力研究: 现状、问题与建议", <i>图书情报知识</i> , 38(5 (总第 203 期)), 2021, pp 21-33.<br>AN Xiaomi, #XU Jicang, WANG Lili, HUANG Jie, HUANG Jufang, "国际标准中的数据治理: 概念、视角及其标准化协同路径", <i>中国图书馆学报</i> , 47(255), September 2021, pp 59-79.<br>LI Linlin, #XU Jicang, HOU Weizhen, SUN Le, "政府信息资源生成效率框架及测定研究——以交通运输电子证照生成为例", <i>信息资源管理学报</i> , 11(6), 2021, pp 76-84.<br>#XU Jicang, LI Linlin, REN Ming, "A Hybrid ANP Method for Evaluation of Government Data Sustainability", <i>Sustainability</i> , 14(2), 13 January 2022, doi: <a href="https://doi.org/10.3390/su14020884">https://doi.org/10.3390/su14020884</a> .<br>AN Xiaomi, WANG Lili, #XU Jicang, HUANG Jie, BAI Wenlin, "我国政府数据治理与利用能力框架构建研究", <i>图书情报知识</i> , 38(5 (总第 203 期)), 2021, pp 34-47. |
| <b>XU Shirong</b>   | #XU Shirong, #ZHEN Yaoming, WANG Junhui, "Covariate-assisted community detection in multi-layer networks", <i>Journal of Business &amp; Economic Statistics</i> , 02 June 2022, doi: <a href="https://doi.org/10.1080/07350015.2022.2085726">https://doi.org/10.1080/07350015.2022.2085726</a> .   |
| <b>YANG Guang</b>   | ZHANG Yabin, LIAN Hairong, #YANG Guang, ZHAO Suyun, NI Peng, CHEN Hong, LI Cuiping, "Inaccurate-Supervised Learning With Generative Adversarial Nets", <i>IEEE Transactions on Cybernetics</i> , 31 August 2021, doi: <a href="https://doi.org/10.1109/TCYB.2021.3104848">https://doi.org/10.1109/TCYB.2021.3104848</a> .  |
| <b>YANG Jiannan</b> | #YANG Jiannan, XU zhongzhi, WU Ka Kei William, CHU Qian, ZHANG Qingpeng, "GraphSynergy: a network-inspired deep learning model for anticancer drug combination prediction", <i>Journal of the American Medical Informatics Association : JAMIA</i> , 28(11), 02 September 2021, pp 2336-2345, doi: <a href="https://doi.org/10.1093/jamia/ocab162">https://doi.org/10.1093/jamia/ocab162</a> .<br>CHEN Mingzhen, #YANG Jiannan, LU Junlin, ZHOU Ziling, HUANG Kun, ZHANG Sihan, YUAN Guanjie, ZHANG Qingpeng, LI Zhen, "Ureteral calculi lithotripsy for single ureteral calculi: can DNN-assisted model help preoperatively predict risk factors for sepsis?", <i>European Radiology</i> , 22 June 2022, doi: <a href="https://doi.org/10.1007/s00330-022-08882-5">https://doi.org/10.1007/s00330-022-08882-5</a> .<br>GARETT Renee R., #YANG Jiannan, ZHANG Qingpeng, YOUNG Sean D., "An online advertising intervention to increase adherence to stay-at-home-orders during the   |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | COVID-19 pandemic: An efficacy trial monitoring individual-level mobility data", <i>International Journal of Applied Earth Observation and Geoinformation</i> , 108, 24 March 2022, doi: <a href="https://doi.org/10.1016/j.jag.2022.102752">https://doi.org/10.1016/j.jag.2022.102752</a> .   |
| <b>YANG Luoxiao</b>   | # <u>YANG Luoxiao</u> , <u>WANG Long</u> , <u>ZHANG Zijun</u> , "Generative Wind Power Curve Modeling Via Machine Vision: A Deep Convolutional Network Method with Data-Synthesis-Informed-Training", <i>IEEE Transactions on Power Systems</i> , 05 May 2022, doi: <a href="https://doi.org/10.1109/TPWRS.2022.3172508">https://doi.org/10.1109/TPWRS.2022.3172508</a> .  |
|                       | # <u>YANG Luoxiao</u> , <u>WANG Long</u> , # <u>ZHENG Zhong</u> , <u>ZHANG Zijun</u> , "A Continual Learning-based Framework for Developing A Single Wind Turbine Cyber twin Adaptively Serving Multiple Modeling Tasks", <i>IEEE Transactions on Industrial Informatics</i> , 18(7), 25 November 2021, pp 4912-4921, doi: <a href="https://doi.org/10.1109/TII.2021.3130721">https://doi.org/10.1109/TII.2021.3130721</a> .   |
|                       | # <u>YANG Luoxiao</u> , # <u>ZHENG Zhong</u> , <u>ZHANG Zijun</u> , "An Improved Mixture Density Network via Wasserstein Distance Based Adversarial Learning for Probabilistic Wind Speed Predictions", <i>IEEE Transactions on Sustainable Energy</i> , 13(2), 30 November 2021, pp 755-766, doi: <a href="https://doi.org/10.1109/TSTE.2021.3131522">https://doi.org/10.1109/TSTE.2021.3131522</a> .   |
|                       | # <u>YANG Luoxiao</u> , <u>ZHANG Zijun</u> , "A Deep Attention Convolutional Recurrent Network Assisted by K-shape Clustering and Enhanced Memory for Short Term Wind Speed Predictions", <i>IEEE Transactions on Sustainable Energy</i> , 13(2), 14 December 2021, pp 856-867, doi: <a href="https://doi.org/10.1109/TSTE.2021.3135278">https://doi.org/10.1109/TSTE.2021.3135278</a> .   |
|                       | # <u>ZHENG Zhong</u> , <u>WANG Long</u> , # <u>YANG Luoxiao</u> , <u>ZHANG Zijun</u> , "Generative Probabilistic Wind Speed Forecasting: A Variational Recurrent Autoencoder Based Method", <i>IEEE Transactions on Power Systems</i> , 37(2), 18 August 2021, pp 1386-1398, doi: <a href="https://doi.org/10.1109/TPWRS.2021.3105101">https://doi.org/10.1109/TPWRS.2021.3105101</a> .  |
| <b>YE Wenxing</b>     | # <u>YE Wenxing</u> , <u>TAN Matthias Hwai-yong</u> , "Multi-fidelity Gaussian process modeling with boundary information", <i>Applied Stochastic Models in Business and Industry</i> , 38(2), 12 December 2021, pp 216-239, doi: <a href="https://doi.org/10.1002/asmb.2656">https://doi.org/10.1002/asmb.2656</a> .  |
| <b>YE Yang</b>        | # <u>YE Yang</u> , <u>ZHANG Qingpeng</u> , <u>CAO Zhidong</u> , <u>CHEN Youhua Frank</u> , <u>YAN Houmin</u> , <u>STANLEY H. Eugene</u> , <u>ZENG Daniel Dajun</u> , "Impacts of Export Restrictions on the Global Personal Protective Equipment Trade Network During COVID-19", <i>Advanced Theory and Simulations</i> , 5(4), 07 December 2021, doi: <a href="https://doi.org/10.1002/adts.202100352">https://doi.org/10.1002/adts.202100352</a> .   |
|                       | # <u>YE Yang</u> , <u>ZHANG Qingpeng</u> , <u>WEI Xuan</u> , <u>CAO Zhidong</u> , <u>YUAN Hsiang-Yu Sean</u> , <u>ZENG Daniel Dajun</u> , "Equitable access to COVID-19 vaccines makes a life-saving difference to all countries", <i>Nature Human Behaviour</i> , 6, 31 January 2022, pp 207-216, doi: <a href="https://doi.org/10.1038/s41562-022-01289-8">https://doi.org/10.1038/s41562-022-01289-8</a> .  |
|                       | # <u>JING Fengshi</u> , # <u>YE Yang</u> , <u>ZHOU Yi</u> , # <u>ZHOU Hanchu</u> , <u>XU Zhongzhi</u> , <u>LU Ying</u> , <u>TAO Xiaoyu</u> , <u>YANG Shujuan</u> , # <u>CHENG Weibin</u> , <u>TIAN Junzhang</u> , <u>TANG Weiming</u> , <u>WU Dan</u> , "Modelling the geographical spread of HIV among MSM in Guangdong, China: a metapopulation model considering the impact of pre-exposure prophylaxis", <i>Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 380(2214), 22 November 2021, doi: <a href="https://doi.org/10.1098/rsta.2021.0126">https://doi.org/10.1098/rsta.2021.0126</a> . |
| <b>YU Jiabin</b>      | # <u>YU Jiabin</u> , <u>QIN S Joe</u> , "Latent State Space Modeling of High-Dimensional Time Series with a Canonical Correlation Objective", <i>IEEE Control Systems Letters</i> , 6, 16 June 2022, pp 3469-3474, doi: <a href="https://doi.org/10.1109/LCSYS.2022.3183895">https://doi.org/10.1109/LCSYS.2022.3183895</a> .  |
| <b>ZHANG Bingying</b> | # <u>ZHANG Bingying</u> , <u>XU Guanglin</u> , <u>ZHANG Zijun</u> , "A holistic robust method for optimizing multi-timescale operations of a wind farm with energy storages", <i>Journal of Cleaner Production</i> , 356, 20 April 2022, doi: <a href="https://doi.org/10.1016/j.jclepro.2022.131793">https://doi.org/10.1016/j.jclepro.2022.131793</a> .  |
| <b>ZHANG Hongbin</b>  | # <u>ZHANG Hongbin</u> , <u>YANG Yu</u> , <u>WU Feng</u> , "Just-in-time single-batch-processing machine scheduling", <i>Computers and Operations Research</i> , 140, 16 December 2021, doi: <a href="https://doi.org/10.1016/j.cor.2021.105675">https://doi.org/10.1016/j.cor.2021.105675</a> .   |
| <b>ZHANG Jingnan</b>  | # <u>ZHANG Jingnan</u> , <u>WANG Junhui</u> , "Identifiability and parameter estimation of the overlapped stochastic co-block model", <i>Statistics and Computing</i> , 32(4), 28 June 2022, doi: <a href="https://doi.org/10.1007/s11222-022-10114-1">https://doi.org/10.1007/s11222-022-10114-1</a> .  |
| <b>ZHAO Weizun</b>    | # <u>ZHAO Weizun</u> , <u>LI Lishuai</u> , <u>ALAM Sameer</u> , <u>WANG Yanjun</u> , "An incremental clustering method for anomaly detection in flight data", <i>Transportation Research Part C: Emerging Technologies</i> , 132, 29 September 2021, doi: <a href="https://doi.org/10.1016/j.trc.2021.103406">https://doi.org/10.1016/j.trc.2021.103406</a> .  |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | #CHANG Haoliang, HUANG Jianxiang, YAO Weiran, #ZHAO Weizun, LI Lishuai, "How do new transit stations affect people's sentiment and activity? A case study based on social media data in Hong Kong", <i>Transport Policy</i> , 120, 21 March 2022, pp 139-155, doi: <a href="https://doi.org/10.1016/j.tranpol.2022.03.011">https://doi.org/10.1016/j.tranpol.2022.03.011</a> .  |
| <b>ZHEN Yaoming</b> | #ZHEN Yaoming, WANG Junhui, "Community Detection in General Hypergraph via Graph Embedding", <i>Journal of the American Statistical Association</i> , 13 January 2022, doi: <a href="https://doi.org/10.1080/01621459.2021.2002157">https://doi.org/10.1080/01621459.2021.2002157</a> .   |
|                     | #XU Shirong, #ZHEN Yaoming, WANG Junhui, "Covariate-assisted community detection in multi-layer networks", <i>Journal of Business &amp; Economic Statistics</i> , 02 June 2022, doi: <a href="https://doi.org/10.1080/07350015.2022.2085726">https://doi.org/10.1080/07350015.2022.2085726</a> .  |
| <b>ZHENG Zhong</b>  | #YANG Luoxiao, WANG Long, #ZHENG Zhong, ZHANG Zijun, "A Continual Learning-based Framework for Developing A Single Wind Turbine Cybertwin Adaptively Serving Multiple Modeling Tasks", <i>IEEE Transactions on Industrial Informatics</i> , 18(7), 25 November 2021, pp 4912-4921, doi: <a href="https://doi.org/10.1109/TII.2021.3130721">https://doi.org/10.1109/TII.2021.3130721</a> .   |
|                     | #YANG Luoxiao, #ZHENG Zhong, ZHANG Zijun, "An Improved Mixture Density Network via Wasserstein Distance Based Adversarial Learning for Probabilistic Wind Speed Predictions", <i>IEEE Transactions on Sustainable Energy</i> , 13(2), 30 November 2021, pp 755-766, doi: <a href="https://doi.org/10.1109/TSTE.2021.3131522">https://doi.org/10.1109/TSTE.2021.3131522</a> .  |
|                     | WANG Tian, LIANG Yangyang, #ZHENG Zhong, "Encroachment in a three-echelon supply chain: manufacturer encroachment or distributor encroachment", <i>Asia Pacific Journal of Marketing and Logistics</i> , 04 January 2022, doi: <a href="https://doi.org/10.1108/APJML-04-2021-0225">https://doi.org/10.1108/APJML-04-2021-0225</a> .  |
|                     | WANG Tian, #ZHENG Zhong, "产能不确定供货商的风险厌恶行为对供应链的影响", <i>中国管理科学</i> , 30(1), January 2022, pp 165-174.   |
|                     | #ZHENG Zhong, ZHANG Zijun, WANG Long, LUO Xiong, "Denoising temporal convolutional recurrent autoencoders for time series classification", <i>Information Sciences</i> , 588, 17 December 2021, pp 159-173, doi: <a href="https://doi.org/10.1016/j.ins.2021.12.061">https://doi.org/10.1016/j.ins.2021.12.061</a> .  |
|                     | #ZHENG Zhong, WANG Long, #YANG Luoxiao, ZHANG Zijun, "Generative Probabilistic Wind Speed Forecasting: A Variational Recurrent Autoencoder Based Method", <i>IEEE Transactions on Power Systems</i> , 37(2), 18 August 2021, pp 1386-1398, doi: <a href="https://doi.org/10.1109/TPWRS.2021.3105101">https://doi.org/10.1109/TPWRS.2021.3105101</a> .   |
|                     |   |
| <b>ZHOU Hanchu</b>  | XU Pengpeng, BAI Lu, PEI Xin, WONG S. C., #ZHOU Hanchu, "Uncertainty matters: Bayesian modeling of bicycle crashes with incomplete exposure data", <i>Accident Analysis and Prevention</i> , 165, 08 December 2021, doi: <a href="https://doi.org/10.1016/j.aap.2021.106518">https://doi.org/10.1016/j.aap.2021.106518</a> .  |
|                     | DONG Ni, GUAN Xiangyang, ZHANG Jin, #ZHOU Hanchu, ZHANG Jie, LIU Xiaobo, SUN Yichen, XU Pengpeng, LI Qin, HAO Xingjie, "Propagation dynamics and control policies of COVID-19 pandemic at early stages: Implications on future resurgence response", <i>Chaos</i> , 32(5), 02 May 2022, doi: <a href="https://doi.org/10.1063/5.0076255">https://doi.org/10.1063/5.0076255</a> .  |
|                     | #CHANG Fangrong, HUANG Helai, CHAN Hoi Shou Alan, MAN Siu Shing, GONG Yaobang, #ZHOU Hanchu, "Capturing long-memory properties in road fatality rate series by an autoregressive fractionally integrated moving average model with generalized autoregressive conditional heteroscedasticity: A case study of Florida, the United States, 1975–2018", <i>Journal of Safety Research</i> , 81, 03 March 2022, pp 216-224, doi: <a href="https://doi.org/10.1016/j.jsr.2022.02.013">https://doi.org/10.1016/j.jsr.2022.02.013</a> . |
|                     | #ZHOU Hanchu, ZHANG Qingpeng, CAO Zhidong, HUANG Helai, DAJUN ZENG Daniel, "Sustainable targeted interventions to mitigate the COVID-19 pandemic: A big data-driven modeling study in Hong Kong", <i>Chaos</i> , 31(10), 20 October 2021, doi: <a href="https://doi.org/10.1063/5.0066086">https://doi.org/10.1063/5.0066086</a> .  |
|                     | #JING Fengshi, #YE Yang, ZHOU Yi, #ZHOU Hanchu, XU Zhongzhi, LU Ying, TAO Xiaoyu, YANG Shujuan, #CHENG Weibin, TIAN Junzhang, TANG Weiming, WU Dan, "Modelling the geographical spread of HIV among MSM in Guangdong, China: a metapopulation model considering the impact of pre-exposure prophylaxis", <i>Philosophical Transactions</i>  |

Section A: Publications of PhD Students

|                      |  |
|----------------------|--|
|                      | <i>of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 380(2214), 22 November 2021, doi: <a href="https://doi.org/10.1098/rsta.2021.0126">https://doi.org/10.1098/rsta.2021.0126</a> .   |
| <b>ZHOU Jiandong</b> | LAKHANI Ishan , # <a href="#">ZHOU Jiandong</a> , LEE Sharen, CHRISTIEN LI Ka Hou, KIT LEUNG Keith Sai, HO HUI Jeremy Man, ATHENA LEE Yan Hiu, LI Guoliang, LIU Tong, WONG Wing-Tak, KEI WONG Ian Chi, MOK Ngai Shing, MAK Chloe Miu, <a href="#">ZHANG Qingpeng</a> , TSE Gary, "A Territory-Wide Study of Arrhythmogenic Right Ventricular Cardiomyopathy Patients from Hong Kong", <i>Reviews in Cardiovascular Medicine</i> , 23(7), 2022, doi: <a href="https://doi.org/10.31083/J.RCM2307231">https://doi.org/10.31083/J.RCM2307231</a> .  |
|                      | LEE Yan Hiu Athena, # <a href="#">ZHOU Jiandong</a> , HUI Jeremy Man Ho, LIU Xuejin, LEE Teddy Tai Loy, HUI Kyle, CHAN Jeffrey Shi Kai, WAI Abraham Ka Chung, WONG Wing-Tak, LIU Tong, NG Kenrick, LEE Sharen, DEE Edward Christopher, <a href="#">ZHANG Qingpeng</a> , TSE Gary, "Risk of New-Onset Prostate Cancer for Metformin Versus Sulfonylurea Use in Type 2 Diabetes Mellitus: A Propensity Score-Matched Study", <i>Journal of the National Comprehensive Cancer Network : JNCCN</i> , 20(6), June 2022, pp 674-682, doi: <a href="https://doi.org/10.6004/jnccn.2022.7010">https://doi.org/10.6004/jnccn.2022.7010</a> .  |
|                      | # <a href="#">ZHOU Jiandong</a> , LEE Sharen, WONG Wing-Tak, WALEED Khalid Bin, LEUNG Keith Sai Kit, LEE Teddy Tai Loy, WAI Abraham Ka Chung, LIU Tong, CHANG Carlin, CHEUNG Bernard Man Yung, <a href="#">ZHANG Qingpeng</a> , TSE Gary, "Gender-specific clinical risk scores incorporating blood pressure variability for predicting incident dementia", <i>Journal of the American Medical Informatics Association : JAMIA</i> , 29(2), 13 October 2021, pp 335-347, doi: <a href="https://doi.org/10.1093/jamia/ocab173">https://doi.org/10.1093/jamia/ocab173</a> .  |
|                      | CHAN Jeffrey Shi Kai, # <a href="#">ZHOU Jiandong</a> , LEE Sharen, LI Andrew , TAN Martin, LEUNG Keith Sai Kit, JEEVARATNAM Kamalan, LIU Tong, ROEVER Leonardo, LIU Ying, TSE Gary, <a href="#">ZHANG Qingpeng</a> , "Fragmented QRS Is Independently Predictive of Long-Term Adverse Clinical Outcomes in Asian Patients Hospitalized for Heart Failure: A Retrospective Cohort Study", <i>Frontiers in Cardiovascular Medicine</i> , 8, 11 November 2021, doi: <a href="https://doi.org/10.3389/fcvm.2021.738417">https://doi.org/10.3389/fcvm.2021.738417</a> .  |
|                      | # <a href="#">ZHOU Jiandong</a> , LI Xiang, WANG Xin, CHAI Yunpeng, <a href="#">ZHANG Qingpeng</a> , "Locally weighted factorization machine with fuzzy partition for elderly readmission prediction", <i>Knowledge-Based Systems</i> , 242, 07 February 2022, doi: <a href="https://doi.org/10.1016/j.knsys.2022.108326">https://doi.org/10.1016/j.knsys.2022.108326</a> .  |
|                      | LEE Sharen, # <a href="#">ZHOU Jiandong</a> , JEEVARATNAM Kamalan, WONG Wing-Tak, WONG Ian Chi Kei, MAK Chloe, MOK Ngai Shing, LIU Tong, <a href="#">ZHANG Qingpeng</a> , TSE Gary, "Paediatric/young versus adult patients with long QT syndrome", <i>Open Heart</i> , 8(2), 12 September 2021, doi: <a href="https://doi.org/10.1136/openhrt-2021-001671">https://doi.org/10.1136/openhrt-2021-001671</a> .  |
|                      | MUI Jonathan V., # <a href="#">ZHOU Jiandong</a> , LEE Sharen, LEUNG Keith Sai Kit, LEE Teddy Tai Loy, CHOU Oscar Hou In, TSANG Shek Long, WAI Abraham Ka Chung, LIU Tong, WONG Wing-Tak, CHANG Carlin, TSE Gary, <a href="#">ZHANG Qingpeng</a> , "Sodium-Glucose Cotransporter 2 (SGLT2) Inhibitors vs. Dipeptidyl Peptidase-4 (DPP4) Inhibitors for New-Onset Dementia: A Propensity Score-Matched Population-Based Study With Competing Risk Analysis", <i>Frontiers in Cardiovascular Medicine</i> , 8, 21 October 2021, doi: <a href="https://doi.org/10.3389/fcvm.2021.747620">https://doi.org/10.3389/fcvm.2021.747620</a> . |
| <b>ZHOU Wei</b>      | # <a href="#">ZHOU Wei</a> , HE Xin, ZHONG Wei, <a href="#">WANG Junhui</a> , "Efficient Learning of Quadratic Variance Function Directed Acyclic Graphs via Topological Layers", <i>Journal of Computational and Graphical Statistics</i> , 26 May 2022, doi: <a href="https://doi.org/10.1080/10618600.2022.2069776">https://doi.org/10.1080/10618600.2022.2069776</a> .   |
|                      | ZHONG Wei, # <a href="#">ZHOU Wei</a> , FAN Qingliang, GAO Yang, "Dummy endogenous treatment effect estimation using high-dimensional instrumental variables", <i>Canadian Journal of Statistics</i> , 06 August 2021, doi: <a href="https://doi.org/10.1002/cjs.11648">https://doi.org/10.1002/cjs.11648</a> .  |
| <b>ZHU Xinting</b>   | # <a href="#">ZHU Xinting</a> , # <a href="#">LIN Yu</a> , HE Yuxin, TSUI Kwok Leung, CHAN Pak Wai, <a href="#">LI Lishuai</a> , "Short-Term Nationwide Airport Throughput Prediction With Graph Attention Recurrent Neural Network", <i>Frontiers in Artificial Intelligence</i> , 5, 13 June 2022, doi: <a href="https://doi.org/10.3389/frai.2022.884485">https://doi.org/10.3389/frai.2022.884485</a> .  |

Section A: Publications of PhD Students

|   |   |
|---|---|
|   | HE Yuxin, <u>LI Lishuai</u> , # <u>ZHU Xinting</u> , TSUI Kwok Leung, "Multi-Graph Convolutional-Recurrent Neural Network (MGC-RNN) for Short-Term Forecasting of Transit Passenger Flow", <i>IEEE Transactions on Intelligent Transportation Systems</i> , 14 March 2022, doi: <a href="https://doi.org/10.1109/TITS.2022.3150600">https://doi.org/10.1109/TITS.2022.3150600</a> .   |
| <b>Conference papers</b>                              |   |
| <b>LIU Hong</b>                                       | WU Guojin, ZHANG Zizhen, # <u>LIU Hong</u> , WANG Jiahai, "Solving Time-Dependent Traveling Salesman Problem with Time Windows with Deep Reinforcement Learning", <i>2021 IEEE International Conference on Systems, Man, and Cybernetics (SMC)</i> , Melbourne, Australia, 17-20 October 2021, pp 558-563, (ISBN: 978-1-6654-4208-4,9781665442077).   |
| <b>LIU Yiren</b>                                      | <u>QIN S Joe</u> , # <u>LIU Yiren</u> , "Stable Lasso for Model Structure Learning of Inferential Sensor Modeling", <i>19th IFAC Symposium on System Identification SYSID 2021 - Padova, Italy, 13-16 July 2021</i> , Padova, Italy, 13-16 July 2021, pp 228-233.   |
| <b>SU Junyan</b>                                      | <u>LIN Qiulin</u> , <u>MO Yanfang</u> , # <u>SU Junyan</u> , <u>CHEN Minghua</u> , "Competitive Online Optimization with Multiple Inventories: A Divide-and-Conquer Approach", <i>SIGMETRICS/PERFORMANCE '22 Abstracts - AbstractProceedingsofthe2022ACMSIGMETRICS/IFIPPERFORMANCE JointInternational Conference on Measurement and Modeling of Computer Systems</i> , Hybrid, Mumbai, India, 06-10 June 2022, pp 83-84, (ISBN: 9781450391412). |
|   | # <u>SU Junyan</u> , <u>CHEN Minghua</u> , ZENG Haibo, "Energy efficient timely transportation: A comparative study of internal combustion trucks and electric trucks", <i>BuildSys 2021 - Proceedings of the 2021 ACM International Conference on Systems for Energy-Efficient Built Environments</i> , Online, Portugal, 17-18 November 2021, pp 224-225, (ISBN: 9781450391146).  |
| <b>WANG Siyi</b>                                      | # <u>WANG Siyi</u> , YAN Xing, ZHENG Bangqi, WANG Hu, XU Wangli, PENG Nanbo, <u>WU Qi</u> , "Risk and return prediction for pricing portfolios of non-performing consumer credit", <i>ICAIF '21: Proceedings of the Second ACM International Conference on AI in Finance</i> , Virtual, New York, United States, 03-05 November 2021, (ISBN: 978-1-4503-9148-1,9781450391481).  |
| <b>XU Shaohang</b>                                    | # <u>XU Shaohang</u> , ZHU Lijun, <u>HO Chin Pang</u> , "Learning Efficient and Robust Multi-Modal Quadruped Locomotion: A Hierarchical Approach", <i>2022 IEEE International Conference on Robotics and Automation, ICRA 2022</i> , Philadelphia, United States, 23-27 May 2022, pp 4649-4655, (ISBN: 9781728196817).  |
| <b>YANG Luoxiao</b>                                   | TENG Xinyuan, LONG Huan, # <u>YANG Luoxiao</u> , "Integrated Electricity-Gas System Optimal Dispatch Based on Deep Reinforcement Learning", <i>Proceedings - 2021 IEEE Sustainable Power and Energy Conference - Energy Transition for Carbon Neutrality, ISPEC 2021</i> , Nanjing, China, 22-24 December 2021, pp 1082-1086, (ISBN: 9781665414395,9781665414401).  |
| <b>YE Yang</b>  | # <u>YE Yang</u> , <u>ZHANG Qingpeng</u> , "Product Clustering Analysis Based on the Retail Product Knowledge Graph", <i>Web and Big Data. APWeb-WAIM 2021 International Workshops - KGMA 2021, SemiBDMA 2021, DeepLUDA 2021, Guangzhou, China, August 23-25, 2021, Revised Selected Papers</i> , Virtual, Guangzhou, China, 23-25 August 2021, pp 37-40, (ISBN: 978-981-16-8142-4,978-981-16-8143-1).  |
| <b>ZHANG Qixin</b>                                    | WANG Kaixin, ZHOU Kuangqi, # <u>ZHANG Qixin</u> , SHAO Jie, HOOI Bryan, FENG Jiashi , "Towards Better Laplacian Representation in Reinforcement Learning with Generalized Graph Drawing", <i>Proceedings of the 38th International Conference on Machine Learning</i> , Virtual, 18-24 July 2021, pp 11003-11012.   |
| <b>ZHOU Jiandong</b>                                  | LEE Sharen, # <u>ZHOU Jiandong</u> , LETSAS Konstantinos P., CHRISTIEN LI Ka Hou, LIU Tong, ZUMHAGEN Sven, SCHULZE-BAHR Eric, TSE Gary, <u>ZHANG Qingpeng</u> , "Pairwise Feature Interactions to Predict Arrhythmic Risk of Brugada Syndrome", <i>2021 Computing in Cardiology (CinC)</i> , Hotel Passage, Brno, Czech Republic, 13-15 September 2021, (ISBN: 9781665467216,9781665479165).  |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>LIU Xin</b>  | # <u>LIU Xin</u> , <u>ZHANG Zijun</u> , System And Method for Monitoring A Device, Patent No.: US11,306,705, United States, 19 April 2022.  |

Section A: Publications of PhD Students

|   |  |
|---|--|
| <b>YANG Jiannan</b>                             | <a href="#">ZHANG Qingpeng</a> , <a href="#">XU Zhongzhi</a> , <a href="#">#YANG Jiannan</a> , "Method and System for Predicting a Synergistic Effect", Licensing Agreement with Biotech & Health, Hong Kong, 17 May 2022.   |
| <b>ZHAO Weizun</b>                              | <a href="#">CHARRUAUD Florent</a> , <a href="#">LI Lishuai</a> , <a href="#">#ZHAO Weizun</a> , Method of Presenting Flight Data of an Aircraft and a Graphical User Interface for Use with the Same, Patent No.: US11,299,288, United States, 12 April 2022.  |
| <b>All other outputs</b>                        |  |
| <b>GUO Mengzhuo</b>                             | <a href="#">#GUO Mengzhuo</a> , <i>Research on Preference Disaggregation Based Multiple Criteria Decision Analysis Methods with Complex Decision Elements</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 12 October 2021.   |
| <b>HE Chaocheng</b>                             | <a href="#">#HE Chaocheng</a> , <i>Research on the Evolution and Prediction of the Research Leadership Network in Research Collaborations from the Perspective of Multi-proximities</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 12 October 2021.   |
| <b>JING Fengshi</b>                             | <a href="#">#JING Fengshi</a> , <i>Data Driven Modeling in HIV Interventions: Prediction, Optimization, and Decision</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 08 November 2021.   |
| <b>LIN Yu</b>                                   | <a href="#">#LIN Yu</a> , <i>A Data-Driven Air Traffic Network Delay Modeling Approach Considering En-Route Congestion</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 10 December 2021.   |
| <b>LIU Xin</b>                                  | <a href="#">#LIU Xin</a> , <i>Advanced Wind Power Predictions Based on Deep Learning</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 19 July 2021.   |
| <b>LIU Yiren</b>                                | <a href="#">ZHAO Xiangyu</a> , <a href="#">QIN S Joe</a> , <a href="#">#LIU Yiren</a> , <a href="#">HUANG Yixiao</a> , <a href="#">YAO Shenglong</a> , <a href="#">HAN Guo</a> , Microsoft Outstanding AI Influencer Award and the Grand Prizes in the Global AI Challenge for Building E&M Facilities, Global AI Challenge for Building E&M Facilities, May 2022.   |
| <b>MAO Tong</b>                                 | <a href="#">#MAO Tong</a> , <i>Approximation Theory of Shallow Neural Networks and Deep Convolutional Neural Networks</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 13 June 2022.  |
| <b>PAN Hao</b>                                  | <a href="#">#PAN Hao</a> , <i>Statistical Methods for Effective Personal Health Monitoring and Public Health Surveillance</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 04 May 2022.   |
| <b>QIAO Haike</b>                               | <a href="#">#QIAO Haike</a> , <i>Product Sales Channel and Pricing Studies under Remanufacturing: A Perspective of Consumer Behaviors</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 10 June 2022.  |
| <b>SHI Zhongjie</b>                             | <a href="#">#SHI Zhongjie</a> , <i>Learning Theory of Deep Neural Networks and Distribution Regression</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 27 June 2022.   |
| <b>XU Shirong</b>                               | <a href="#">#XU Shirong</a> , <i>Selected Topics in Embedding Learning</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 04 August 2021.   |
| <b>ZHENG Zhong</b>                              | <a href="#">#ZHENG Zhong</a> , <i>Deep Recurrent Neural Networks for Time Series Data Analytics</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 04 November 2021.  |
| <b>ZHOU Jiandong</b>                            | <a href="#">#ZHOU Jiandong</a> , <i>Machine Learning for Individualized Cardiovascular Diseases Risk Stratification</i> , PhD Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 06 September 2021.   |
| <b>SCHOOL OF ENERGY AND ENVIRONMENT</b>         |  |
| <b>Scholarly books, monographs and chapters</b> |  |
| <b>CHOI Paula Jungwon</b>                       | <a href="#">KHANZADA Noman Khalid</a> , <a href="#">#CHOI Paula Jungwon</a> , <a href="#">AN Kyoung Jin Alicia</a> , "Hybrid forward/reverse osmosis (HFRO) - an approach for optimized operation and sustainable resource recovery", <i>Clean Energy and Resource Recovery - Wastewater Treatment Plants as Biorefineries</i> , Vol 2, An Alicia Kyoungjin, Cetecioglu Zeynep, Kumar Manish and Tyagi Vinay Kumar (eds), Elsevier, ISBN: 9780323901789,9780323901796, Netherlands, 14 January 2022, pp 69-94. |



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|                                   |   |
|-----------------------------------|---|
| <b>HATHI Zubeen Jyotiwanan</b>    | METTU Srinivas, HALDER Pobitra, PATEL Savankumar, KUNDU Sazal, SHAH Kalpit, YAO Shunyu, #HATHI Zubeen Jyotiwanan, ONG Khai Lun, ATHUKORALALAGE Sandya, CHOUDHURY Namita Roy, DUTTA Naba Kumar, LIN Sze Ki Carol, "Valorisation of Agricultural Waste Residues", <i>Waste Valorisation - Waste Streams in a Circular Economy</i> , KAUR Guneet, LI Chong, LIN Carol Sze Ki and YANG Xiaofeng (eds), John Wiley & Sons, ISBN: 9781119502692,9781119502708,9781119502753, 25 September 2021, pp 51-85.   |
| <b>NALLAPANENI Manoj Kumar</b>    | CHAND Aneesh A., LAL Prashant P., PRASAD Kushal A., #NALLAPANENI Manoj Kumar, "Economics and environmental impacts of solar energy technologies", <i>Solar Energy Advancements in Agriculture and Food Production Systems</i> , Campana Pietro Elia and Gorjian Shiva (eds), Elsevier, ISBN: 978-0-323-89866-9, United States, 24 June 2022, pp 391-423.  |
| <b>TAN Tian</b>                   | YU Yau Wai Denis, LEE Pui Kit, WANG Shuo, #TAN Tian, "Mechanical properties of silicon-based electrodes", <i>Silicon Anode Systems for Lithium-Ion Batteries</i> , Datta Moni, Hepp Aloysius, Kumta Prashant and Velikokhatnyi Oleg (eds), ELSEVIER, ISBN: 9780128196601,9780323851817, 17 September 2021, pp 119-155.  |
| <b>Journal publications</b>       |   |
| <b>ADEYERI Oluwafemi Ebenezer</b> | DIENG Diarra, CANNON Alex J., LAUX Patrick, HALD Cornelius, #ADEYERI Oluwafemi Ebenezer, RAHIMI Jaber, SRIVASTAVA Amit K., MBAYE Mamadou Lamine, KUNSTMANN Harald, "Multivariate bias-correction of high-resolution regional climate change simulations for West Africa: performance and climate change implications", <i>Journal of Geophysical Research: Atmospheres</i> , 127(5), 13 February 2022, doi: <a href="https://doi.org/10.1029/2021JD034836">https://doi.org/10.1029/2021JD034836</a> . |
|                                   | USMAN Muhammad, NDEHEDEHE Christopher E., FARAH Humera, AHMAD Burhan, WONG Yongjie, #ADEYERI Oluwafemi Ebenezer, "Application of a Conceptual Hydrological Model for Streamflow Prediction Using Multi-Source Precipitation Products in a Semi-Arid River Basin", <i>Water (Switzerland)</i> , 14(8), 13 April 2022, doi: <a href="https://doi.org/10.3390/w14081260">https://doi.org/10.3390/w14081260</a> .   |
|                                   | #ADEYERI Oluwafemi Ebenezer, LAUX Patrick, ISHOLA K. A., ZHOU Wen, BALOGUN I.a., ADEYEWA Z.d., KUNSTMANN Harald, "Homogenising meteorological variables: Impact on trends and associated climate indices", <i>Journal of Hydrology</i> , 607, 09 February 2022, doi: <a href="https://doi.org/10.1016/j.jhydrol.2022.127585">https://doi.org/10.1016/j.jhydrol.2022.127585</a> .  |
| <b>AO Kelong</b>                  | #AO Kelong, #SHI Jihong, ZHANG Xiangyang, DAOUD Walid, "Tuning oxygen vacancies in spinel nanosheets for binder-free oxygen cathodes with superior catalytic activity in zinc-air batteries", <i>Journal of Power Sources</i> , 521, 22 December 2021, doi: <a href="https://doi.org/10.1016/j.jpowsour.2021.230918">https://doi.org/10.1016/j.jpowsour.2021.230918</a> .   |
|                                   | WU Yinghong, QU Jingkui, ZHANG Xinghan, #AO Kelong, ZHOU Zhiwen, ZHENG Zeyang, MU Yijie, WU Xinya, LUO Yang, FENG Shien Ping, "Biomechanical Energy Harvesters Based on Ionic Conductive Organohydrogels via the Hofmeister Effect and Electrostatic Interaction", <i>ACS Nano</i> , 15(8), 06 August 2021, pp 13427–13435, doi: <a href="https://doi.org/10.1021/acsnano.1c03830">https://doi.org/10.1021/acsnano.1c03830</a> .  |
|                                   | #AO Kelong, DAOUD Walid, "Facile controlled formation of CoNi alloy and CoO embedded in N-doped carbon as advanced electrocatalysts for oxygen evolution and zinc-air battery", <i>Electrochimica Acta</i> , 395, 03 September 2021, doi: <a href="https://doi.org/10.1016/j.electacta.2021.139204">https://doi.org/10.1016/j.electacta.2021.139204</a> .   |
| <b>CALVIN -</b>                   | #CALVIN -, SIT Patrick, "Evaluation of optical band gaps and dopant state energies in transition metal oxides using oxidation-state constrained density functional theory", <i>Journal of Physics: Condensed Matter</i> , 33(36), 08 July 2021, doi: <a href="https://doi.org/10.1088/1361-648X/ac0cb8">https://doi.org/10.1088/1361-648X/ac0cb8</a> .  |
|                                   | #CALVIN -, SIT Patrick, "Study of Energetics of Polaron Dynamics in Monolayer and Bulk MoS2 Using Oxidation-State Constrained Density Functional Theory", <i>Journal of Physical Chemistry C</i> , 126(27), 2022, doi: <a href="https://doi.org/10.1021/acs.jpcc.2c03201">https://doi.org/10.1021/acs.jpcc.2c03201</a> .  |
|                                   | SHI Ji-Long, FENG Keyu, HAO Huimin, #CALVIN -, SIT Patrick, TEOH Wey Yang, LANG Xianjun, "2D sp <sup>2</sup> Carbon-Conjugated Covalent Organic Framework with Pyrene-Tethered TEMPO Intercalation for Photocatalytic Aerobic Oxidation of Sulfides into Sulfoxides", <i>Solar RRL</i> , 6(1), 19 November 2021, doi: <a href="https://doi.org/10.1002/solr.202100608">https://doi.org/10.1002/solr.202100608</a> .   |

Section A: Publications of PhD Students

|                           |  |
|---------------------------|--|
| <b>CHAN Wing Lam</b>      | # <a href="#">CHAN Wing Lam</a> , LUO Liwen, WU Haoxiang, "The role of hydrodynamic resistance compared to biofilm formation in helping pathogenic bacteria dominate air-conditioning units recovered from odour problems", <i>Environmental Technology (United Kingdom)</i> , 28 October 2021, doi: <a href="https://doi.org/10.1080/09593330.2021.1992510">https://doi.org/10.1080/09593330.2021.1992510</a> .   |
|                           | # <a href="#">LIANG Zhancong</a> , # <a href="#">CHAN Wing Lam</a> , # <a href="#">TIAN Xiaomeng</a> , <a href="#">LAI Chi Keung Alvin</a> , <a href="#">LEE Patrick Kwan Hon</a> , <a href="#">CHAN Chak Keung</a> , "Inactivation of <i>Escherichia coli</i> in droplets at different ambient relative humidities: Effects of phase transition, solute and cell concentrations", <i>Atmospheric Environment</i> , 280, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.atmosenv.2022.119066">https://doi.org/10.1016/j.atmosenv.2022.119066</a> .   |
| <b>CHEN Keda</b>          | <a href="#">HE Yun</a> , # <a href="#">CHEN Keda</a> , <a href="#">LEUNG Kwok Hi Michael</a> , # <a href="#">ZHANG Yizhen</a> , LI Li, LI Guisheng, XUAN Jin, LI Jianfen, "Photocatalytic fuel cell – A review", <i>Chemical Engineering Journal</i> , 428, 04 July 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.131074">https://doi.org/10.1016/j.cej.2021.131074</a> .   |
| <b>CHEN Siru</b>          | <a href="#">IQBAL Mohammad Irfan</a> , # <a href="#">LIN Kaixin</a> , SUN Fengxin, # <a href="#">CHEN Siru</a> , <a href="#">PAN Aiqiang</a> , <a href="#">LEE Hau Him</a> , <a href="#">KAN Chi-Wai</a> , <a href="#">LIN Sze Ki Carol</a> , <a href="#">TSO Chi Yan</a> , "Radiative Cooling Nanofabric for Personal Thermal Management", <i>ACS Applied Materials and Interfaces</i> , 14(20), 12 May 2022, pp 23577–23587, doi: <a href="https://doi.org/10.1021/acsami.2c05115">https://doi.org/10.1021/acsami.2c05115</a> .  |
|                           | # <a href="#">LIN Kaixin</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">HO Tsz Chung</a> , <a href="#">LIN Chongjia</a> , # <a href="#">CHEN Siru</a> , # <a href="#">DU Yuwei</a> , <a href="#">HUANG Baoling</a> , <a href="#">TSO Chi Yan</a> , "A flexible and scalable solution for daytime passive radiative cooling using polymer sheets", <i>Energy and Buildings</i> , 252, 26 August 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111400">https://doi.org/10.1016/j.enbuild.2021.111400</a> .   |
| <b>CHEN Yong</b>          | # <a href="#">CHEN Yong</a> , <a href="#">LIU Chunhua</a> , # <a href="#">LIU Senyi</a> , # <a href="#">SONG Zaixin</a> , "A New Cascaded Adaptive Deadbeat Control Method for PMSM Drive", <i>IEEE Transactions on Industrial Electronics</i> , 01 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3177808">https://doi.org/10.1109/TIE.2022.3177808</a> .  |
|                           | <a href="#">FANG Shuhua</a> , <a href="#">WANG Yicheng</a> , <a href="#">WANG Wei</a> , <a href="#">CHEN Youxu</a> , # <a href="#">CHEN Yong</a> , "Design of Permanent Magnet Synchronous Motor Servo System Based on Improved Particle Swarm Optimization", <i>IEEE Transactions on Power Electronics</i> , 37(5), 15 November 2021, pp 5833-5846, doi: <a href="https://doi.org/10.1109/TPEL.2021.3128188">https://doi.org/10.1109/TPEL.2021.3128188</a> .  |
|                           | # <a href="#">SONG Zaixin</a> , <a href="#">LIU Chunhua</a> , # <a href="#">CHEN Yong</a> , # <a href="#">HUANG Rundong</a> , "Air-gap Permeance and Reluctance Network Models for Analyzing Vibrational Exciting Force of In-wheel PMSM", <i>IEEE Transactions on Vehicular Technology</i> , 13 April 2022, doi: <a href="https://doi.org/10.1109/TVT.2022.3167131">https://doi.org/10.1109/TVT.2022.3167131</a> .  |
| <b>CHOI Paula Jungwon</b> | <a href="#">FARID Muhammad Usman</a> , # <a href="#">CHOI Paula Jungwon</a> , # <a href="#">KHARRAZ Jehad Abbaas Abed Alhaleem</a> , # <a href="#">LAO Jiayong</a> , <a href="#">ST-HILAIRE Sophie Natasha</a> , <a href="#">RUAN Yuefei Phoebe</a> , <a href="#">LAM Kwan Sing Paul</a> , <a href="#">AN Kyoung Jin Alicia</a> , "Hybrid nanobubble-forward osmosis system for aquaculture wastewater treatment and reuse", <i>Chemical Engineering Journal</i> , 435(Part 3), 09 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135164">https://doi.org/10.1016/j.cej.2022.135164</a> . |
|                           | # <a href="#">CHOI Paula Jungwon</a> , <a href="#">LIM Sungil</a> , <a href="#">SHON Hokyong</a> , <a href="#">AN Kyoung Jin Alicia</a> , "Incorporation of negatively charged silver nanoparticles in outer-selective hollow fiber forward osmosis (OSHF-FO) membrane for wastewater dewatering", <i>Desalination</i> , 522, 23 October 2021, doi: <a href="https://doi.org/10.1016/j.desal.2021.115402">https://doi.org/10.1016/j.desal.2021.115402</a> .  |
| <b>DING Zhixiong</b>      | # <a href="#">DING Zhixiong</a> , <a href="#">WU Wei</a> , "Dynamic discharging characteristics of absorption thermal battery under different capacity regulation strategies", <i>Energy and Built Environment</i> , 19 February 2022, doi: <a href="https://doi.org/10.1016/j.enbenv.2022.02.004">https://doi.org/10.1016/j.enbenv.2022.02.004</a> .  |
|                           | # <a href="#">DING Zhixiong</a> , <a href="#">YU Xiaojun</a> , <a href="#">MA Zhenxi</a> , <a href="#">WU Wei</a> , <a href="#">ZHANG Lin</a> , <a href="#">YU Yau Wai Denis</a> , <a href="#">CHENG Don H.K.</a> , "On-site measurement and simulation investigation on condensation dehumidification and desiccant dehumidification in Hong Kong", <i>Energy and Buildings</i> , 254, 12 October 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111560">https://doi.org/10.1016/j.enbuild.2021.111560</a> .  |
|                           | <a href="#">WU Wei</a> , # <a href="#">ZHAI Chong</a> , <a href="#">HUANG Si-Min</a> , # <a href="#">SUI Yunren</a> , # <a href="#">SUI Zengguang</a> , # <a href="#">DING Zhixiong</a> , "A hybrid H <sub>2</sub> O/IL absorption and CO <sub>2</sub> compression air-source heat pump for ultra-low ambient temperatures", <i>Energy</i> , 239(Part B), 28 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122180">https://doi.org/10.1016/j.energy.2021.122180</a> .  |
|                           | # <a href="#">DING Zhixiong</a> , <a href="#">WU Wei</a> , <a href="#">LEUNG Kwok Hi Michael</a> , "On the rational development of advanced thermochemical thermal batteries for short-term and long-term energy storage", <i>Renewable and Sustainable Energy Reviews</i> , 164, 16 May 2022, doi: <a href="https://doi.org/10.1016/j.rser.2022.112557">https://doi.org/10.1016/j.rser.2022.112557</a> .  |

Section A: Publications of PhD Students

|                     |   |
|---------------------|---|
|                     | # <a href="#">DING Zhixiong</a> , <a href="#">WU Wei</a> , "A novel double-effect compression-assisted absorption thermal battery with high storage performance for thermal energy storage", <i>Renewable Energy</i> , 191, 16 April 2022, pp 902-918, doi: <a href="https://doi.org/10.1016/j.renene.2022.04.071">https://doi.org/10.1016/j.renene.2022.04.071</a> .   |
| <b>DONG Hanmin</b>  | TAN Xiujie, LIU Yishuang, # <a href="#">DONG Hanmin</a> , ZHANG Zhan, "The effect of carbon emission trading scheme on energy efficiency: Evidence from China", <i>Economic Analysis and Policy</i> , 75, 18 June 2022, pp 506-517, doi: <a href="https://doi.org/10.1016/j.eap.2022.06.012">https://doi.org/10.1016/j.eap.2022.06.012</a> .  |
|                     | # <a href="#">DONG Hanmin</a> , LIU Yishuang, ZHAO Zhihui, TAN Xiujie, MANAGI Shunsuke, "Carbon neutrality commitment for China: from vision to action", <i>Sustainability Science</i> , 29 January 2022, doi: <a href="https://doi.org/10.1007/s11625-022-01094-2">https://doi.org/10.1007/s11625-022-01094-2</a> .  |
|                     | # <a href="#">DONG Hanmin</a> , LIU Wei, LIU Yishuang, XIONG Zhonghui, "Fixed asset changes with carbon regulation: The cases of China", <i>Journal of Environmental Management</i> , 306, 20 January 2022, doi: <a href="https://doi.org/10.1016/j.jenvman.2022.114494">https://doi.org/10.1016/j.jenvman.2022.114494</a> .  |
|                     | WANG Junshui, # <a href="#">DONG Hanmin</a> , XIAO Ruyue, "Central environmental inspection and corporate environmental investment: evidence from Chinese listed companies", <i>Environmental Science and Pollution Research</i> , 25 March 2022, doi: <a href="https://doi.org/10.1007/s11356-022-19538-8">https://doi.org/10.1007/s11356-022-19538-8</a> .  |
|                     | TAN Xiujie, LIU Yishuang, # <a href="#">DONG Hanmin</a> , # <a href="#">XIAO Yujia</a> , ZHAO Zhihui, "The health consequences of greenhouse gas emissions: a potential pathway", <i>Environmental Geochemistry and Health</i> , 07 January 2022, doi: <a href="https://doi.org/10.1007/s10653-021-01142-3">https://doi.org/10.1007/s10653-021-01142-3</a> .  |
|                     | # <a href="#">DONG Hanmin</a> , TAN Xiujie, CHENG Si, LIU Yishuang, "COVID-19, recovery policies and the resilience of EU ETS", <i>Economic Change and Restructuring</i> , 07 January 2022, doi: <a href="https://doi.org/10.1007/s10644-021-09372-2">https://doi.org/10.1007/s10644-021-09372-2</a> .  |
| <b>DONG Zhiping</b> | # <a href="#">DONG Zhiping</a> , <a href="#">LIU Chunhua</a> , # <a href="#">LIU Senyi</a> , # <a href="#">SONG Zaixin</a> , "Deadbeat predictive current control for series-winding pmsm drive with half-bridge power module-based inverter", <i>Energies</i> , 14(15), 30 July 2021, doi: <a href="https://doi.org/10.3390/en14154620">https://doi.org/10.3390/en14154620</a> .   |
|                     | # <a href="#">WANG Wusen</a> , <a href="#">LIU Chunhua</a> , # <a href="#">SONG Zaixin</a> , # <a href="#">DONG Zhiping</a> , "Harmonic Current Suppression for Dual Three-Phase PMSM Based on Deadbeat Control and Disturbance Observer", <i>IEEE Transactions on Industrial Electronics</i> , 01 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3177818">https://doi.org/10.1109/TIE.2022.3177818</a> .  |
|                     | # <a href="#">SONG Zaixin</a> , <a href="#">LIU Chunhua</a> , # <a href="#">DONG Zhiping</a> , # <a href="#">HUANG Rundong</a> , "Improved Multi-Stage Decoupling Space Vector Modulation for Asymmetrical Multi-Phase PMSM with Series Winding Connection", <i>IEEE Transactions on Power Electronics</i> , 37(9), 29 March 2022, pp 10951-10966, doi: <a href="https://doi.org/10.1109/TPEL.2022.3163275">https://doi.org/10.1109/TPEL.2022.3163275</a> .   |
|                     | # <a href="#">LIU Senyi</a> , <a href="#">LIU Chunhua</a> , ZHAO Hang, # <a href="#">LIU Yuxin</a> , # <a href="#">DONG Zhiping</a> , "Improved Flux Weakening Control Strategy for Five-phase PMSM Considering Harmonic Voltage Vectors", <i>IEEE Transactions on Power Electronics</i> , 37(9), 01 April 2022, pp 10967-10980, doi: <a href="https://doi.org/10.1109/TPEL.2022.3164047">https://doi.org/10.1109/TPEL.2022.3164047</a> .   |
|                     | # <a href="#">LIU Senyi</a> , <a href="#">LIU Chunhua</a> , # <a href="#">SONG Zaixin</a> , # <a href="#">DONG Zhiping</a> , # <a href="#">HUANG Yongcan</a> , "Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System", <i>IEEE Transactions on Transportation Electrification</i> , 8(1), 16 August 2021, pp 1194-1208, doi: <a href="https://doi.org/10.1109/TTE.2021.3104876">https://doi.org/10.1109/TTE.2021.3104876</a> .   |
|                     | ZHAO Hang, <a href="#">LIU Chunhua</a> , # <a href="#">DONG Zhiping</a> , # <a href="#">HUANG Rundong</a> , LI Xianglin, "Design and Optimization of a Magnetic-Geared Direct-Drive Machine with V-shaped Permanent Magnets for Ship Propulsion", <i>IEEE Transactions on Transportation Electrification</i> , 8(2), 02 November 2021, pp 1619-1633, doi: <a href="https://doi.org/10.1109/TTE.2021.3124891">https://doi.org/10.1109/TTE.2021.3124891</a> .   |
| <b>DU Shicong</b>   | # <a href="#">DU Shicong</a> , CHEN Wei, YAO Zhiyuan, HUANG Xiaolin, CHEN Chen, GUO Haipeng, ZHANG Demin, " <i>Enterococcus faecium</i> are associated with the modification of gut microbiota and shrimp post-larvae survival", <i>Animal Microbiome</i> , 3, 24 December 2021, doi: <a href="https://doi.org/10.1186/s42523-021-00152-x">https://doi.org/10.1186/s42523-021-00152-x</a> .   |
| <b>DU Yuwei</b>     | # <a href="#">DU Yuwei</a> , # <a href="#">LIU Sai</a> , ZHOU Zhiwen, LEE Hau Him, HO Tsz Chung, FENG Shien Ping, <a href="#">TSO Chi Yan</a> , "Study on the halide effect of MA <sub>4</sub> PbX <sub>6</sub> ·2H <sub>2</sub> O hybrid perovskites – From thermochromic properties to practical deployment for smart windows", <i>Materials Today Physics</i> , 23, 02 February 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100624">https://doi.org/10.1016/j.mtphys.2022.100624</a> . |

Section A: Publications of PhD Students

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|------------------------------|---|
|                              | # <a href="#">LIN Kaixin</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">HO Tsz Chung</a> , <a href="#">LIN Chongjia</a> , # <a href="#">CHEN Siru</a> , # <a href="#">DU Yuwei</a> , <a href="#">HUANG Baoling</a> , <a href="#">TSO Chi Yan</a> , "A flexible and scalable solution for daytime passive radiative cooling using polymer sheets", <i>Energy and Buildings</i> , 252, 26 August 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111400">https://doi.org/10.1016/j.enbuild.2021.111400</a> .  |
| <b>DUAN Qiaohui</b>          | # <a href="#">DUAN Qiaohui</a> , <a href="#">WANG Yao</a> , <a href="#">DONG Shuyu</a> , <a href="#">YU Yau Wai Denis</a> , "Facile electrode additive stabilizes structure of electrolytic MnO <sub>2</sub> for mild aqueous rechargeable zinc-ion battery", <i>Journal of Power Sources</i> , 528, 26 February 2022, doi: <a href="https://doi.org/10.1016/j.jpowsour.2022.231194">https://doi.org/10.1016/j.jpowsour.2022.231194</a> .   |
| <b>FAHIM Muhammad</b>        | # <a href="#">FIRDOUS Irum</a> , # <a href="#">FAHIM Muhammad</a> , <a href="#">WANG Lingyun</a> , <a href="#">LI Wen Jung</a> , <a href="#">ZI Yunlong</a> , <a href="#">DAOUD Walid</a> , "Boosting current output of triboelectric nanogenerator by two orders of magnitude via hindering interfacial charge recombination", <i>Nano Energy</i> , 89(Part A), November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106315">https://doi.org/10.1016/j.nanoen.2021.106315</a> .  |
|                              | # <a href="#">FAHIM Muhammad</a> , # <a href="#">FIRDOUS Irum</a> , <a href="#">TSANG Sai Wing</a> , <a href="#">DAOUD Walid</a> , "Engineering intrinsic flexibility in polycrystalline perovskite film by grain boundary stitching for high mechanical endurance", <i>Nano Energy</i> , 96, 16 February 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107058">https://doi.org/10.1016/j.nanoen.2022.107058</a> .  |
| <b>FIRDOUS Irum</b>          | # <a href="#">FIRDOUS Irum</a> , # <a href="#">FAHIM Muhammad</a> , <a href="#">WANG Lingyun</a> , <a href="#">LI Wen Jung</a> , <a href="#">ZI Yunlong</a> , <a href="#">DAOUD Walid</a> , "Boosting current output of triboelectric nanogenerator by two orders of magnitude via hindering interfacial charge recombination", <i>Nano Energy</i> , 89(Part A), November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106315">https://doi.org/10.1016/j.nanoen.2021.106315</a> .  |
|                              | # <a href="#">FAHIM Muhammad</a> , # <a href="#">FIRDOUS Irum</a> , <a href="#">TSANG Sai Wing</a> , <a href="#">DAOUD Walid</a> , "Engineering intrinsic flexibility in polycrystalline perovskite film by grain boundary stitching for high mechanical endurance", <i>Nano Energy</i> , 96, 16 February 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107058">https://doi.org/10.1016/j.nanoen.2022.107058</a> .  |
| <b>GAO Shang</b>             | # <a href="#">GAO Shang</a> , <a href="#">KURPPA Mona</a> , <a href="#">CHAN Chak Keung</a> , <a href="#">NGAN Keith</a> , "Technical note: Dispersion of cooking-generated aerosols from an urban street canyon", <i>Atmospheric Chemistry and Physics</i> , 22(4), 01 March 2022, pp 2703-2726, doi: <a href="https://doi.org/10.5194/acp-22-2703-2022">https://doi.org/10.5194/acp-22-2703-2022</a> .  |
| <b>GONG Bo</b>               | # <a href="#">GONG Bo</a> , <a href="#">DU Meng</a> , <a href="#">QIAN Chen</a> , <a href="#">CHEN Wei</a> , <a href="#">SIT Patrick</a> , <a href="#">LIU Xian-Wei</a> , <a href="#">YU Han-Qing</a> , "Why Should Tryptones Rather Than Bovine Serum Albumin Be Used as Model Proteins to Explore the Interactions between Proteins and Pollutants in Environments?", <i>Environmental Science and Technology Letters</i> , 8(12), 12 November 2021, pp 1038–1044, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00783">https://doi.org/10.1021/acs.estlett.1c00783</a> .   |
|                              | <a href="#">VEHMAANPERÄ Paula</a> , # <a href="#">GONG Bo</a> , <a href="#">SIT Patrick</a> , <a href="#">SALMIMIES Riina</a> , <a href="#">BARBIELLINI Bernardo</a> , <a href="#">HÄKKINEN Antti</a> , "FORMATION OF HUMBOLDTINE DURING THE DISSOLUTION OF HEMATITE IN OXALIC ACID – DENSITY FUNCTIONAL THEORY (DFT) CALCULATIONS AND EXPERIMENTAL VERIFICATION", <i>Clays and Clay Minerals</i> , 69(6), 01 October 2021, pp 655–662, doi: <a href="https://doi.org/10.1007/s42860-021-00146-5">https://doi.org/10.1007/s42860-021-00146-5</a> .  |
| <b>HATHI Zubeen Jyotiwan</b> | <a href="#">HAQUE Md Ariful</a> , <a href="#">PRIYA Anshu</a> , # <a href="#">HATHI Zubeen Jyotiwan</a> , # <a href="#">QIN Zihao</a> , <a href="#">METTU Srinivas</a> , <a href="#">LIN Sze Ki Carol</a> , "Advancements and current challenges in the sustainable downstream processing of bacterial polyhydroxyalkanoates", <i>Current Opinion in Green and Sustainable Chemistry</i> , 36, 02 May 2022, doi: <a href="https://doi.org/10.1016/j.cogsc.2022.100631">https://doi.org/10.1016/j.cogsc.2022.100631</a> .  |
|                              | # <a href="#">HATHI Zubeen Jyotiwan</a> , <a href="#">METTU Srinivas</a> , <a href="#">PRIYA Anshu</a> , <a href="#">ATHUKORALALAGE Sandya</a> , <a href="#">LAM Tsz Nok</a> , <a href="#">CHOUDHURY Namita Roy</a> , <a href="#">DUTTA Naba K.</a> , <a href="#">EL-OMAR Emad M.</a> , <a href="#">GONG Lan</a> , <a href="#">MOHAN Geethaanjali</a> , <a href="#">LIN Sze Ki Carol</a> , "Methodological advances and challenges in probiotic bacteria production: Ongoing strategies and future perspectives", <i>Biochemical Engineering Journal</i> , 176, 09 September 2021, doi: <a href="https://doi.org/10.1016/j.bej.2021.108199">https://doi.org/10.1016/j.bej.2021.108199</a> . |
| <b>HU Xiaomeng</b>           | # <a href="#">HU Xiaomeng</a> , <a href="#">AN Kyoung Jin Alicia</a> , <a href="#">CHOPRA Shauhrat Singh</a> , "Life Cycle Assessment of the Polyvinylidene Fluoride Polymer with Applications in Various Emerging Technologies", <i>ACS Sustainable Chemistry and Engineering</i> , 10(18), 28 April 2022, pp 5708–5718, doi: <a href="https://doi.org/10.1021/acssuschemeng.1c05350">https://doi.org/10.1021/acssuschemeng.1c05350</a> .  |
| <b>HUANG Rundong</b>         | # <a href="#">SONG Zaixin</a> , # <a href="#">HUANG Rundong</a> , # <a href="#">WANG Wusen</a> , # <a href="#">LIU Senyi</a> , <a href="#">LIU Chunhua</a> , "An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air  |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | <p>Cooling", <i>IEEE Transactions on Energy Conversion</i>, 30 May 2022, doi: <a href="https://doi.org/10.1109/TEC.2022.3179172">https://doi.org/10.1109/TEC.2022.3179172</a>.</p> <p>#<a href="#">SONG Zaixin</a>, <a href="#">LIU Chunhua</a>, <a href="#">CHEN Yong</a>, <a href="#">HUANG Rundong</a>, "Air-gap Permeance and Reluctance Network Models for Analyzing Vibrational Exciting Force of In-wheel PMSM", <i>IEEE Transactions on Vehicular Technology</i>, 13 April 2022, doi: <a href="https://doi.org/10.1109/TVT.2022.3167131">https://doi.org/10.1109/TVT.2022.3167131</a>.</p> <p>#<a href="#">SONG Zaixin</a>, <a href="#">LIU Chunhua</a>, <a href="#">ZHAO Hang</a>, <a href="#">HUANG Rundong</a>, "Nonlinear Force and Vibration Analysis of an Interior Permanent Magnet Synchronous Generator With Eccentricity Detection", <i>IEEE/ASME Transactions on Mechatronics</i>, 22 October 2021, doi: <a href="https://doi.org/10.1109/TMECH.2021.3118316">https://doi.org/10.1109/TMECH.2021.3118316</a>.</p> <p>#<a href="#">SONG Zaixin</a>, <a href="#">LIU Chunhua</a>, <a href="#">DONG Zhiping</a>, <a href="#">HUANG Rundong</a>, "Improved Multi-Stage Decoupling Space Vector Modulation for Asymmetrical Multi-Phase PMSM with Series Winding Connection", <i>IEEE Transactions on Power Electronics</i>, 37(9), 29 March 2022, pp 10951-10966, doi: <a href="https://doi.org/10.1109/TPEL.2022.3163275">https://doi.org/10.1109/TPEL.2022.3163275</a>.</p> <p><a href="#">ZHAO Hang</a>, <a href="#">LIU Chunhua</a>, <a href="#">DONG Zhiping</a>, <a href="#">HUANG Rundong</a>, <a href="#">LI Xianglin</a>, "Design and Optimization of a Magnetic-Geared Direct-Drive Machine with V-shaped Permanent Magnets for Ship Propulsion", <i>IEEE Transactions on Transportation Electrification</i>, 8(2), 02 November 2021, pp 1619-1633, doi: <a href="https://doi.org/10.1109/TTE.2021.3124891">https://doi.org/10.1109/TTE.2021.3124891</a>.</p> <p>#<a href="#">HUANG Rundong</a>, <a href="#">SONG Zaixin</a>, <a href="#">ZHAO Hang</a>, <a href="#">LIU Chunhua</a>, "Overview of Axial-Flux Machines and Modeling Methods", <i>IEEE Transactions on Transportation Electrification</i>, 8(2), 20 January 2022, pp 2118-2132, doi: <a href="https://doi.org/10.1109/TTE.2022.3144594">https://doi.org/10.1109/TTE.2022.3144594</a>.</p> |
| <b>HUANG Yongcan</b> | <p>#<a href="#">LIU Senyi</a>, <a href="#">LIU Chunhua</a>, <a href="#">SONG Zaixin</a>, <a href="#">DONG Zhiping</a>, <a href="#">HUANG Yongcan</a>, "Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System", <i>IEEE Transactions on Transportation Electrification</i>, 8(1), 16 August 2021, pp 1194-1208, doi: <a href="https://doi.org/10.1109/TTE.2021.3104876">https://doi.org/10.1109/TTE.2021.3104876</a>.</p>  |
| <b>JIA Mingyi</b>    | <p><a href="#">XU Changqing</a>, <a href="#">SHI Xinmei</a>, <a href="#">JIA Mingyi</a>, <a href="#">HAN Yu</a>, <a href="#">ZHANG Rongrong</a>, <a href="#">AHMAD Shakeel</a>, <a href="#">JIA Haifeng</a>, "China Sponge City database development and urban runoff source control facility configuration comparison between China and the US", <i>Journal of Environmental Management</i>, 304, 11 December 2021, doi: <a href="https://doi.org/10.1016/j.jenvman.2021.114241">https://doi.org/10.1016/j.jenvman.2021.114241</a>.</p>  |
| <b>JIAN Yuntao</b>   | <p>#<a href="#">JIAN Yuntao</a>, <a href="#">LEUNG Yu Ting</a>, <a href="#">ZHOU Wen</a>, <a href="#">JIAN Maoqiu</a>, <a href="#">YANG Song</a>, "Present and Future Relations between ENSO and Winter Synoptic Temperature Variability over the Asian-Pacific-American Region Simulated by CMIP5/6", <i>Journal of Climate</i>, 34(24), 17 November 2021, pp 9899-9913, doi: <a href="https://doi.org/10.1175/JCLI-D-21-0210.1">https://doi.org/10.1175/JCLI-D-21-0210.1</a>.</p> <p><a href="#">LIN Xiaoxia</a>, <a href="#">FENG Yerong</a>, <a href="#">XU Daosheng</a>, <a href="#">JIAN Yuntao</a>, <a href="#">HUANG Fei</a>, <a href="#">HUANG Jincan</a>, "Improving the Nowcasting of Strong Convection by Assimilating Both Wind and Reflectivity Observations of Phased Array Radar: A Case Study", <i>Journal of Meteorological Research</i>, 36(1), February 2022, pp 61-78, doi: <a href="https://doi.org/10.1007/s13351-022-1034-5">https://doi.org/10.1007/s13351-022-1034-5</a>.</p> <p><a href="#">LEUNG Marco Y-T</a>, <a href="#">WANG Dongxiao</a>, <a href="#">ZHOU Wen</a>, <a href="#">CHEUNG King Yeung</a>, <a href="#">JIAN Yuntao</a>, <a href="#">XIAO Fuan</a>, "Joint Effect of West Pacific Warming and the Arctic Oscillation on the Bidecadal Variation and Trend of the East Asian Trough", <i>Journal of Climate</i>, 35(8), 31 March 2022, pp 2491-2501, doi: <a href="https://doi.org/10.1175/JCLI-D-21-0461.1">https://doi.org/10.1175/JCLI-D-21-0461.1</a>.</p> <p><a href="#">LIN Xiaoxia</a>, <a href="#">FENG Yerong</a>, <a href="#">CHEN Zitong</a>, <a href="#">JIAN Yuntao</a>, "华南区域高分辨率数值模式前汛期预报初步评估", <i>热带气象学报</i>, 37(4), August 2021, pp 656-668, doi: <a href="https://doi.org/10.16032/j.issn.1004-4965.2021.062">https://doi.org/10.16032/j.issn.1004-4965.2021.062</a>.</p>  |
| <b>JIANG Zhe</b>     | <p><a href="#">WANG Ye</a>, <a href="#">JIANG Zhe</a>, <a href="#">ZHANG Lin</a>, "Sponge City Policy and Sustainable City Development: The Case of Shenzhen", <i>Frontiers in Environmental Science</i>, 9, 03 January 2022, doi: <a href="https://doi.org/10.3389/fenvs.2021.772490">https://doi.org/10.3389/fenvs.2021.772490</a>.</p> <p>#<a href="#">JIANG Zhe</a>, <a href="#">ZHANG Lin</a>, <a href="#">LINGLING Zhang</a>, <a href="#">WEN Bo</a>, "Investor sentiment and machine learning: Predicting the price of China's crude oil futures market", <i>Energy</i>, 247, 14 February 2022, doi: <a href="https://doi.org/10.1016/j.energy.2022.123471">https://doi.org/10.1016/j.energy.2022.123471</a>.</p> <p>#<a href="#">JIANG Zhe</a>, <a href="#">LONG Yin</a>, <a href="#">ZHANG Lingling</a>, "How Does the Consumers' Attention Affect the Sale Volumes of New Energy Vehicles: Evidence From China's Market", <i>Frontiers in</i></p>   |

Section A: Publications of PhD Students

|   |   |
|---|---|
|   | <i>Energy Research</i> , 9, 08 December 2021, doi: <a href="https://doi.org/10.3389/fenrg.2021.782992">https://doi.org/10.3389/fenrg.2021.782992</a> .  |
| <b>JIN Mushan</b>                         | <p><u>SUBRAMANIAN SENTHILKANNAN Karpagam</u>, SARKAR Manas Kumar, WANG Huaimin, #<u>QIN Zihao</u>, <u>CHOPRA Shauhrat Singh</u>, #<u>JIN Mushan</u>, KUMAR Vinod, CHEN Chao, TSANG Chi-Wing, <u>LIN Sze Ki Carol</u>, "An overview of cotton and polyester, and their blended waste textile valorisation to value-added products: A circular economy approach—research trends, opportunities and challenges", <i>Critical Reviews in Environmental Science and Technology</i>, 23 August 2021, doi: <a href="https://doi.org/10.1080/10643389.2021.1966254">https://doi.org/10.1080/10643389.2021.1966254</a>.</p> <p><u>WANG Xiang</u>, LI Chong, <u>LAM Jason</u>, <u>SUBRAMANIAN SENTHILKANNAN Karpagam</u>, #<u>QIN Zihao</u>, #<u>MOU Jinhua</u>, #<u>JIN Mushan</u>, <u>CHOPRA Shauhrat Singh</u>, SINGH Vijay, OK Yong-Sik, YAN Jianbin, LI Hong-Ye, <u>LIN Sze Ki Carol</u>, "Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability", <i>Journal of Hazardous Materials</i>, 423, 25 August 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.127023">https://doi.org/10.1016/j.jhazmat.2021.127023</a>.</p>   |
| <b>JIN Yangxin</b>                        | <p>ZHANG Man, HU Di, CHEN Yuwen, #<u>JIN Yangxin</u>, LIU Biying, <u>LAM Jason</u>, YAN Kai, "Electrocatalytic Reductive Amination and Simultaneous Oxidation of Biomass-Derived 5-Hydroxymethylfurfural", <i>Industrial and Engineering Chemistry Research</i>, 61(4), 02 February 2022, pp 1912–1919, doi: <a href="https://doi.org/10.1021/acs.iecr.1c04508">https://doi.org/10.1021/acs.iecr.1c04508</a>.</p> <p><u>LIU Kaixin</u>, <u>HUANG Shuquan</u>, #<u>JIN Yangxin</u>, MA Lan, <u>WANG Wenxiong</u>, <u>LAM Jason</u>, "A green slurry electrolysis to recover valuable metals from waste printed circuit board (WPCB) in recyclable pH-neutral ethylene glycol", <i>Journal of Hazardous Materials</i>, 433, 15 March 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128702">https://doi.org/10.1016/j.jhazmat.2022.128702</a>.</p> <p><u>HUANG Shuquan</u>, YI Jianjian, PAN Yichen, WANG Chongtai, #<u>JIN Yangxin</u>, SONG Yanhua, XU Yuanguo, <u>LAM Jason</u>, LI Huaming, XU Hui, "Steering Hole Transfer from the Light Absorber to Oxygen Evolution Sites for Photocatalytic Overall Water Splitting", <i>Advanced Materials Interfaces</i>, 8(22), 24 October 2021, doi: <a href="https://doi.org/10.1002/admi.202101158">https://doi.org/10.1002/admi.202101158</a>.</p>  |
| <b>KHARRAZ Jehad Abbaas Abed Alhaleem</b> | <p><u>FARID Muhammad Usman</u>, #<u>CHOI Paula Jungwon</u>, #<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, #<u>LAO Jiayong</u>, <u>ST-HILAIRE Sophie Natasha</u>, <u>RUAN Yuefei Phoebe</u>, LAM Kwan Sing Paul, <u>AN Kyoung Jin Alicia</u>, "Hybrid nanobubble-forward osmosis system for aquaculture wastewater treatment and reuse", <i>Chemical Engineering Journal</i>, 435(Part 3), 09 February 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.135164">https://doi.org/10.1016/j.cej.2022.135164</a>.</p> <p><u>FARID Muhammad Usman</u>, #<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, LEE Cheng-Hao, FANG James Kar-Hei, <u>ST-HILAIRE Sophie Natasha</u>, <u>AN Kyoung Jin Alicia</u>, "Nanobubble-assisted scaling inhibition in membrane distillation for the treatment of high-salinity brine", <i>Water Research</i>, 209, 09 December 2021, doi: <a href="https://doi.org/10.1016/j.watres.2021.117954">https://doi.org/10.1016/j.watres.2021.117954</a>.</p> <p>#<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, <u>KHANZADA Noman Khalid</u>, <u>FARID Muhammad Usman</u>, KIM Jeonghwan, JEONG Sanghyun, <u>AN Kyoung Jin Alicia</u>, "Membrane distillation bioreactor (MDBR) for wastewater treatment, water reuse, and resource recovery: A review", <i>Journal of Water Process Engineering</i>, 47, 15 March 2022, doi: <a href="https://doi.org/10.1016/j.jwpe.2022.102687">https://doi.org/10.1016/j.jwpe.2022.102687</a>.</p> <p><u>KHANZADA Noman Khalid</u>, DEKA Bhaskar Jyoti, #<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, #<u>WONG Pak Wai</u>, JASSBY David, REHMAN Shazia, LEU Shao Yuan, KUMAR Manish, <u>AN Kyoung Jin Alicia</u>, "Elucidating the role of graphene oxide layers in enhancing N-Nitrosodimethylamine (NDMA) rejection and antibiofouling property of RO membrane simultaneously", <i>Journal of Membrane Science</i>, 643, 05 November 2021, doi: <a href="https://doi.org/10.1016/j.memsci.2021.120043">https://doi.org/10.1016/j.memsci.2021.120043</a>.</p> <p><u>JIA Wei</u>, #<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, #<u>SUN Jiawei</u>, <u>AN Kyoung Jin Alicia</u>, "Hierarchical Janus membrane via a sequential electrospray coating method with wetting and fouling resistance for membrane distillation", <i>Desalination</i>, 520, 14 September 2021, doi: <a href="https://doi.org/10.1016/j.desal.2021.115313">https://doi.org/10.1016/j.desal.2021.115313</a>.</p> <p>#<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, <u>FARID Muhammad Usman</u>, JASSBY David, <u>AN Kyoung Jin Alicia</u>, "A systematic study on the impact of feed composition and substrate wettability on wetting and fouling of omniphobic and janus membranes in membrane</p> |

Section A: Publications of PhD Students

|                       |  |
|-----------------------|--|
|                       | distillation", <i>Journal of Membrane Science</i> , 641, 21 September 2021, doi: <a href="https://doi.org/10.1016/j.memsci.2021.119873">https://doi.org/10.1016/j.memsci.2021.119873</a> .   |
| <b>LI Fuxiang</b>     | # <a href="#">LI Fuxiang</a> , <a href="#">WU Wei</a> , "Coupled electrical-thermal performance estimation of photovoltaic devices: A transient multiphysics framework with robust parameter extraction and 3-D thermal analysis", <i>Applied Energy</i> , 319, 20 May 2022, doi: <a href="https://doi.org/10.1016/j.apenergy.2022.119249">https://doi.org/10.1016/j.apenergy.2022.119249</a> .  |
| <b>LI Minglai</b>     | LI Jian, QING Ping, HU Wuyang, # <a href="#">LI Minglai</a> , "Contract farming, community effect, and farmer valuation of biofortified crop varieties in China: The case of high-zinc wheat", <i>Review of Development Economics</i> , 26(2), 08 December 2021, pp 1035-1055, doi: <a href="https://doi.org/10.1111/rode.12847">https://doi.org/10.1111/rode.12847</a> .  |
| <b>LI Xin</b>         | # <a href="#">LI Xin</a> , <a href="#">HAI Guangtong</a> , <a href="#">LIU Jin</a> , <a href="#">ZHAO Fenglin</a> , # <a href="#">PENG Zehua</a> , <a href="#">LIU Honghong</a> , <a href="#">LEUNG Kwok Hi Michael</a> , <a href="#">WANG Haihui</a> , "Bio-inspired NiCoP/CoMoP/Co(Mo <sub>3</sub> Se <sub>4</sub> ) <sub>4</sub> @C/NF multi-heterojunction nanoflowers: Effective catalytic nitrogen reduction by driving electron transfer", <i>Applied Catalysis B: Environmental</i> , 314, 18 May 2022, doi: <a href="https://doi.org/10.1016/j.apcatb.2022.121531">https://doi.org/10.1016/j.apcatb.2022.121531</a> . |
| <b>LI Yitao</b>       | # <a href="#">LI Yitao</a> , <a href="#">HE Yuhe</a> , <a href="#">LAM Jason</a> , <a href="#">NAH Ern Mei Theodora</a> , "Environmental photochemistry of organic UV filter butyl methoxydibenzoylmethane: Implications for photochemical fate in surface waters", <i>Science of the Total Environment</i> , 839, 22 May 2022, doi: <a href="https://doi.org/10.1016/j.scitotenv.2022.156145">https://doi.org/10.1016/j.scitotenv.2022.156145</a> .   |
| <b>LIANG Zhancong</b> | # <a href="#">LIANG Zhancong</a> , <a href="#">CHU Yangxi</a> , <a href="#">GEN Masao</a> , <a href="#">CHAN Chak Keung</a> , "Single-particle Raman spectroscopy for studying physical and chemical processes of atmospheric particles", <i>Atmospheric Chemistry and Physics</i> , 22(5), 07 March 2022, pp 3017-3044, doi: <a href="https://doi.org/10.5194/acp-22-3017-2022">https://doi.org/10.5194/acp-22-3017-2022</a> .  |
|                       | # <a href="#">LIANG Zhancong</a> , # <a href="#">CHAN Wing Lam</a> , # <a href="#">TIAN Xiaomeng</a> , <a href="#">LAI Chi Keung Alvin</a> , <a href="#">LEE Patrick Kwan Hon</a> , <a href="#">CHAN Chak Keung</a> , "Inactivation of <i>Escherichia coli</i> in droplets at different ambient relative humidities: Effects of phase transition, solute and cell concentrations", <i>Atmospheric Environment</i> , 280, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.atmosenv.2022.119066">https://doi.org/10.1016/j.atmosenv.2022.119066</a> .   |
|                       | # <a href="#">ZHANG Ruifeng</a> , <a href="#">GEN Masao</a> , # <a href="#">LIANG Zhancong</a> , <a href="#">LI Yong Jie</a> , <a href="#">CHAN Chak Keung</a> , "Photochemical Reactions of Glyoxal during Particulate Ammonium Nitrate Photolysis: Brown Carbon Formation, Enhanced Glyoxal Decay, and Organic Phase Formation", <i>Environmental Science and Technology</i> , 56(3), 13 January 2022, pp 1605-1614, doi: <a href="https://doi.org/10.1021/acs.est.1c07211">https://doi.org/10.1021/acs.est.1c07211</a> .  |
|                       | <a href="#">GEN Masao</a> , # <a href="#">LIANG Zhancong</a> , # <a href="#">ZHANG Ruifeng</a> , # <a href="#">MABATO Beatrix Rosette Go</a> , <a href="#">CHAN Chak Keung</a> , "Particulate nitrate photolysis in the atmosphere", <i>Environmental Science: Atmospheres</i> , 2(2), 13 January 2022, pp 111-127, doi: <a href="https://doi.org/10.1039/d1ea00087j">https://doi.org/10.1039/d1ea00087j</a> .   |
| <b>LIN Kaixin</b>     | # <a href="#">LIN Kaixin</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">LEE Hau Him</a> , <a href="#">XIN Ren</a> , # <a href="#">LIU Sai</a> , <a href="#">HO Tsz Chung</a> , <a href="#">HUANG Baoling</a> , <a href="#">YU Kin Man</a> , <a href="#">TSO Chi Yan</a> , "Potential building energy savings by passive strategies combining daytime radiative coolers and thermochromic smart windows", <i>Case Studies in Thermal Engineering</i> , 28, 30 September 2021, doi: <a href="https://doi.org/10.1016/j.csite.2021.101517">https://doi.org/10.1016/j.csite.2021.101517</a> .                         |
|                       | <a href="#">IQBAL Mohammad Irfan</a> , # <a href="#">LIN Kaixin</a> , <a href="#">SUN Fengxin</a> , # <a href="#">CHEN Siru</a> , <a href="#">PAN Aiqiang</a> , <a href="#">LEE Hau Him</a> , <a href="#">KAN Chi-Wai</a> , <a href="#">LIN Sze Ki Carol</a> , <a href="#">TSO Chi Yan</a> , "Radiative Cooling Nanofabric for Personal Thermal Management", <i>ACS Applied Materials and Interfaces</i> , 14(20), 12 May 2022, pp 23577–23587, doi: <a href="https://doi.org/10.1021/acsami.2c05115">https://doi.org/10.1021/acsami.2c05115</a> .   |
|                       | # <a href="#">LIN Kaixin</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">HO Tsz Chung</a> , <a href="#">LIN Chongjia</a> , # <a href="#">CHEN Siru</a> , # <a href="#">DU Yuwei</a> , <a href="#">HUANG Baoling</a> , <a href="#">TSO Chi Yan</a> , "A flexible and scalable solution for daytime passive radiative cooling using polymer sheets", <i>Energy and Buildings</i> , 252, 26 August 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111400">https://doi.org/10.1016/j.enbuild.2021.111400</a> .   |
| <b>LIU Sai</b>        | # <a href="#">LIN Kaixin</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">LEE Hau Him</a> , <a href="#">XIN Ren</a> , # <a href="#">LIU Sai</a> , <a href="#">HO Tsz Chung</a> , <a href="#">HUANG Baoling</a> , <a href="#">YU Kin Man</a> , <a href="#">TSO Chi Yan</a> , "Potential building energy savings by passive strategies combining daytime radiative coolers and thermochromic smart windows", <i>Case Studies in Thermal Engineering</i> , 28, 30 September 2021, doi: <a href="https://doi.org/10.1016/j.csite.2021.101517">https://doi.org/10.1016/j.csite.2021.101517</a> .                         |

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|                    | <p>#<a href="#">LIU Sai</a>, <a href="#">LI Yang</a>, <a href="#">WANG Ying</a>, <a href="#">YU Kin Man</a>, <a href="#">HUANG Baoling</a>, <a href="#">TSO Chi Yan</a>, "Near-Infrared-Activated Thermochromic Perovskite Smart Windows", <i>Advanced Science</i>, 9(14), 11 March 2022, doi: <a href="https://doi.org/10.1002/adv.202106090">https://doi.org/10.1002/adv.202106090</a>.</p> <p>#<a href="#">DU Yuwei</a>, #<a href="#">LIU Sai</a>, <a href="#">ZHOU Zhiwen</a>, <a href="#">LEE Hau Him</a>, <a href="#">HO Tsz Chung</a>, <a href="#">FENG Shien Ping</a>, <a href="#">TSO Chi Yan</a>, "Study on the halide effect of MA<sub>4</sub>PbX<sub>6</sub>·2H<sub>2</sub>O hybrid perovskites – From thermochromic properties to practical deployment for smart windows", <i>Materials Today Physics</i>, 23, 02 February 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100624">https://doi.org/10.1016/j.mtphys.2022.100624</a>.</p>   |
| <b>LIU Senyi</b>   | <p><a href="#">ZHAO Hang</a>, <a href="#">LIU Chunhua</a>, #<a href="#">SONG Zaixin</a>, #<a href="#">LIU Senyi</a>, "Design and Control of A New Compound Double-Rotor Electric Machine for Hybrid Propulsion System", <i>IEEE Transactions on Power Electronics</i>, 37(3), 10 September 2021, pp 3283-3296, doi: <a href="https://doi.org/10.1109/TPEL.2021.3111815">https://doi.org/10.1109/TPEL.2021.3111815</a>.</p> <p>#<a href="#">SONG Zaixin</a>, #<a href="#">HUANG Rundong</a>, #<a href="#">WANG Wusen</a>, #<a href="#">LIU Senyi</a>, <a href="#">LIU Chunhua</a>, "An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air Cooling", <i>IEEE Transactions on Energy Conversion</i>, 30 May 2022, doi: <a href="https://doi.org/10.1109/TEC.2022.3179172">https://doi.org/10.1109/TEC.2022.3179172</a>.</p> <p>#<a href="#">CHEN Yong</a>, <a href="#">LIU Chunhua</a>, #<a href="#">LIU Senyi</a>, #<a href="#">SONG Zaixin</a>, "A New Cascaded Adaptive Deadbeat Control Method for PMSM Drive", <i>IEEE Transactions on Industrial Electronics</i>, 01 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3177808">https://doi.org/10.1109/TIE.2022.3177808</a>.</p> <p><a href="#">ZHAO Hang</a>, <a href="#">LIU Chunhua</a>, #<a href="#">SONG Zaixin</a>, #<a href="#">LIU Senyi</a>, "Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine", <i>IEEE Transactions on Industrial Electronics</i>, 69(9), 29 September 2021, pp 8727-8738, doi: <a href="https://doi.org/10.1109/TIE.2021.3114736">https://doi.org/10.1109/TIE.2021.3114736</a>.</p> <p>#<a href="#">DONG Zhiping</a>, <a href="#">LIU Chunhua</a>, #<a href="#">LIU Senyi</a>, #<a href="#">SONG Zaixin</a>, "Deadbeat predictive current control for series-winding pmsm drive with half-bridge power module-based inverter", <i>Energies</i>, 14(15), 30 July 2021, doi: <a href="https://doi.org/10.3390/en14154620">https://doi.org/10.3390/en14154620</a>.</p> <p>#<a href="#">LIU Senyi</a>, <a href="#">LIU Chunhua</a>, <a href="#">ZHAO Hang</a>, #<a href="#">LIU Yuxin</a>, #<a href="#">DONG Zhiping</a>, "Improved Flux Weakening Control Strategy for Five-phase PMSM Considering Harmonic Voltage Vectors", <i>IEEE Transactions on Power Electronics</i>, 37(9), 01 April 2022, pp 10967-10980, doi: <a href="https://doi.org/10.1109/TPEL.2022.3164047">https://doi.org/10.1109/TPEL.2022.3164047</a>.</p> <p>#<a href="#">LIU Senyi</a>, <a href="#">LIU Chunhua</a>, #<a href="#">SONG Zaixin</a>, #<a href="#">DONG Zhiping</a>, #<a href="#">HUANG Yongcan</a>, "Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System", <i>IEEE Transactions on Transportation Electrification</i>, 8(1), 16 August 2021, pp 1194-1208, doi: <a href="https://doi.org/10.1109/TTE.2021.3104876">https://doi.org/10.1109/TTE.2021.3104876</a>.</p> <p>#<a href="#">LIU Yuxin</a>, <a href="#">LIU Chunhua</a>, <a href="#">GAO Xingran</a>, #<a href="#">LIU Senyi</a>, "Design and Control of a Decoupled Multi-channel Wireless Power Transfer System Based on Multilevel Inverters", <i>IEEE Transactions on Power Electronics</i>, 37(8), 15 March 2022, pp 10045-10060, doi: <a href="https://doi.org/10.1109/TPEL.2022.3159129">https://doi.org/10.1109/TPEL.2022.3159129</a>.</p> |
| <b>LIU Wanting</b> | <p>#<a href="#">LIU Wanting</a>, <a href="#">LAU Ghar Ek</a>, <a href="#">NGAN Keith</a>, "Elucidating inhomogeneous scale-dependent flow statistics within regular obstacle arrays", <i>Physics of Fluids</i>, 33(10), 01 October 2021, doi: <a href="https://doi.org/10.1063/5.0062682">https://doi.org/10.1063/5.0062682</a>.</p>  |
| <b>LIU Yuxin</b>   | <p>#<a href="#">WANG Wusen</a>, #<a href="#">SONG Zaixin</a>, #<a href="#">LIU Yuxin</a>, <a href="#">LIU Chunhua</a>, "Decoupled Modulation Scheme for Harmonic Current Suppression in Five-Phase PMSM", <i>IEEE Transactions on Power Electronics</i>, 37(8), 14 March 2022, pp 8795-8799, doi: <a href="https://doi.org/10.1109/TPEL.2022.3156389">https://doi.org/10.1109/TPEL.2022.3156389</a>.</p> <p>#<a href="#">LIU Senyi</a>, <a href="#">LIU Chunhua</a>, <a href="#">ZHAO Hang</a>, #<a href="#">LIU Yuxin</a>, #<a href="#">DONG Zhiping</a>, "Improved Flux Weakening Control Strategy for Five-phase PMSM Considering Harmonic Voltage Vectors", <i>IEEE Transactions on Power Electronics</i>, 37(9), 01 April 2022, pp 10967-10980, doi: <a href="https://doi.org/10.1109/TPEL.2022.3164047">https://doi.org/10.1109/TPEL.2022.3164047</a>.</p> <p>#<a href="#">LIU Yuxin</a>, <a href="#">LIU Chunhua</a>, <a href="#">GAO Xingran</a>, #<a href="#">LIU Senyi</a>, "Design and Control of a Decoupled Multi-channel Wireless Power Transfer System Based on Multilevel Inverters", <i>IEEE Transactions on Power Electronics</i>, 37(8), 15 March 2022, pp 10045-10060, doi: <a href="https://doi.org/10.1109/TPEL.2022.3159129">https://doi.org/10.1109/TPEL.2022.3159129</a>.</p>  |
| <b>LU Yichun</b>   | <p><a href="#">RUAN Yuefei</a> <a href="#">Phoebe</a>, <a href="#">SUN Hongwen</a>, #<a href="#">LU Yichun</a>, <a href="#">ZHANG Yanwei</a>, <a href="#">XU Jiayao</a>, <a href="#">ZHU Hongkai</a>, <a href="#">HE Yuhe</a>, "Evaluating phospholipid- and protein-water partitioning of two groups of chemicals of emerging concern: Diastereo- and enantioselectivity", <i>Journal of</i></p>   |



Section A: Publications of PhD Students

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|----------------------------------|---|
|                                  | <p><i>Hazardous Materials</i>, 430, 16 February 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.128499">https://doi.org/10.1016/j.jhazmat.2022.128499</a>.</p> <p>SONG Weiyi, WU Kun, WU Xiling, #LU Yichun, LI Jing, LI Jinhua, CUI Mengqiao, "The antiestrogen-like activity and reproductive toxicity of 2,6-DCBQ on female zebrafish upon sub-chronic exposure", <i>Journal of Environmental Sciences (China)</i>, 25 February 2022, doi: <a href="https://doi.org/10.1016/j.jes.2021.11.012">https://doi.org/10.1016/j.jes.2021.11.012</a>.</p> <p>#SUN Jiaji, #YANG Shiyi, ZHOU Guangjie, ZHANG Kai, #LU Yichun, JIN Qianqian, LAM Kwan Sing Paul, LEUNG Mei Yee Kenneth, HE Yuhe, "Release of Microplastics from Discarded Surgical Masks and Their Adverse Impacts on the Marine Copepod <i>Tigriopus japonicus</i>", <i>Environmental Science and Technology Letters</i>, 8(12), 11 November 2021, pp 1065–1070, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00748">https://doi.org/10.1021/acs.estlett.1c00748</a>.</p> <p>JIN Qianqian, #TAO Danyang, #LU Yichun, #SUN Jiaji, LAM Jason, SU Guanyong, HE Yuhe, "New insight on occurrence of liquid crystal monomers: A class of emerging e-waste pollutants in municipal landfill leachate", <i>Journal of Hazardous Materials</i>, 423, 10 September 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.127146">https://doi.org/10.1016/j.jhazmat.2021.127146</a>.</p>  |
| <b>LU Yunguo</b>                 | <p>WANG Ye, #LU Yunguo, ZHANG Lin, "Opportunity cost of environmental regulation in china's industrial sector", <i>International Journal of Environmental Research and Public Health</i>, 18(16), 13 August 2021, doi: <a href="https://doi.org/10.3390/ijerph18168579">https://doi.org/10.3390/ijerph18168579</a>.</p> <p>DU Limin, #LU Yunguo, MA Chunbo, "Carbon efficiency and abatement cost of China's coal-fired power plants", <i>Technological Forecasting and Social Change</i>, 175, 12 December 2021, doi: <a href="https://doi.org/10.1016/j.techfore.2021.121421">https://doi.org/10.1016/j.techfore.2021.121421</a>.</p> <p>#LU Yunguo, ZHANG Lin, "National mitigation policy and the competitiveness of Chinese firms", <i>Energy Economics</i>, 109, 24 March 2022, doi: <a href="https://doi.org/10.1016/j.eneco.2022.105971">https://doi.org/10.1016/j.eneco.2022.105971</a>.</p>   |
| <b>LUO Yali</b>                  | <p>#LUO Yali, WANG Wenxiong, "Roles of hemocyte subpopulations in silver nanoparticle transformation and toxicity in the oysters <i>Crassostrea hongkongensis</i>", <i>Environmental Pollution</i>, 305, 09 April 2022, doi: <a href="https://doi.org/10.1016/j.envpol.2022.119281">https://doi.org/10.1016/j.envpol.2022.119281</a>.</p> <p>#LUO Yali, WANG Wenxiong, "Immune responses of oyster hemocyte subpopulations to <i>in vitro</i> and <i>in vivo</i> zinc exposure", <i>Aquatic Toxicology</i>, 242, 11 November 2021, doi: <a href="https://doi.org/10.1016/j.aquatox.2021.106022">https://doi.org/10.1016/j.aquatox.2021.106022</a>.</p>  |
| <b>MA Shuoli</b>                 | <p>#MA Shuoli, SHU Xugang, WANG Wenxiong, "Multi-omics reveals the regulatory mechanisms of zinc exposure on the intestine-liver axis of golden pompano <i>Trachinotus ovatus</i>", <i>Science of the Total Environment</i>, 816, 06 November 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.151497">https://doi.org/10.1016/j.scitotenv.2021.151497</a>.</p> <p>#MA Shuoli, SHU Xugang, WANG Wenxiong, "Responses of two marine fish to organically complexed Zn: Insights from microbial community and liver transcriptomics", <i>Science of the Total Environment</i>, 835, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.scitotenv.2022.155457">https://doi.org/10.1016/j.scitotenv.2022.155457</a>.</p>   |
| <b>MABATO Beatrix Rosette Go</b> | <p>#MABATO Beatrix Rosette Go, LYU Yan, JI Yan, LI Yong Jie, HUANG Dan Dan, LI Xue, NAH Ern Mei Theodora, LAM Jason, CHAN Chak Keung, "Aqueous secondary organic aerosol formation from the direct photosensitized oxidation of vanillin in the absence and presence of ammonium nitrate", <i>Atmospheric Chemistry and Physics</i>, 22(1), 10 January 2022, pp 273-293, doi: <a href="https://doi.org/10.5194/acp-22-273-2022">https://doi.org/10.5194/acp-22-273-2022</a>.</p> <p>WANG Yalin, HUANG Wanyi, TIAN Linhui, WANG Yuchen, LI Fangbing, HUANG Dan Dan, #ZHANG Ruifeng, #MABATO Beatrix Rosette Go, HUANG Ru-Jin, CHEN Qi, GE Xinlei, DU Lin, MA Ying Ge, GEN Masao, HOI Ka In, MOK Kai Meng, YU Jian Z., CHAN Chak Keung, LI Xue, LI Yong Jie, "Decay Kinetics and Absorption Changes of Methoxyphenols and Nitrophenols during Nitrate-Mediated Aqueous Photochemical Oxidation at 254 and 313 nm", <i>ACS Earth and Space Chemistry</i>, 6(4), 28 March 2022, pp 1115–1125, doi: <a href="https://doi.org/10.1021/acsearthspacechem.2c00021">https://doi.org/10.1021/acsearthspacechem.2c00021</a>.</p> <p>WANG Yalin, HUANG Dan Dan, HUANG Wanyi, LIU Ben, CHEN Qi, HUANG Rujin, GEN Masao, #MABATO Beatrix Rosette Go, CHAN Chak Keung, LI Xue, HAO Tianwei, TAN Yunkai, HOI Ka In, MOK Kai Meng, LI Yong Jie, "Enhanced Nitrite Production from the Aqueous Photolysis of Nitrate in the Presence of Vanillic Acid and Implications for the Roles of Light-Absorbing Organics", <i>Environmental Science and Technology</i>, 55(23), 17 November 2021, pp 15694–15704, doi: <a href="https://doi.org/10.1021/acs.est.1c04642">https://doi.org/10.1021/acs.est.1c04642</a>.</p> |

Section A: Publications of PhD Students

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|---------------|--|
|               | <p>GEN Masao, #LIANG Zhancong, #ZHANG Ruifeng, #MABATO Beatrix Rosette Go, <u>CHAN Chak Keung</u>, "Particulate nitrate photolysis in the atmosphere", <i>Environmental Science: Atmospheres</i>, 2(2), 13 January 2022, pp 111-127, doi: <a href="https://doi.org/10.1039/d1ea00087j">https://doi.org/10.1039/d1ea00087j</a>.</p>   |
| MAK Chun Hong | <p>#PENG Yong, #MAK Chun Hong, <u>KAI Ji-jung</u>, DU Minshu, JI Li, YUAN Mingjian, ZOU Xingli, SHEN Hsin-Hui, SANTOSO Shella Permatasari, COLMENARES Juan Carlos, <u>HSU Sam H Y</u>, "Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting", <i>Journal of Materials Chemistry A</i>, 9(47), 23 November 2021, pp 26628-26649, doi: <a href="https://doi.org/10.1039/d1ta05935a">https://doi.org/10.1039/d1ta05935a</a>.</p>   |
|               | <p>#TANG Yunqi, #MAK Chun Hong, JIA Guohua, CHENG Kuan-Chen, <u>KAI Ji-jung</u>, HSIEH Chang-Wei, MENG Fanxu, NIU Wenxin, LI Fang-Fang, SHEN Hsin-Hui, ZHU Xunjin, CHEN Hao Ming, <u>HSU Sam H Y</u>, "Lead-free hybrid perovskite photocatalysts: surface engineering, charge-carrier behaviors, and solar-driven applications", <i>Journal of Materials Chemistry A</i>, 10(23), 13 April 2022, pp 12296-12316, doi: <a href="https://doi.org/10.1039/d2ta01170k">https://doi.org/10.1039/d2ta01170k</a>.</p>  |
|               | <p>#TANG Yunqi, #MAK Chun Hong, WANG Chen, FU Yu, LI Fang-Fang, HSIEH Chang-Wei, SHEN Hsin-Hui, COLMENARES Juan Carlos, SONG Haisheng, YUAN Mingjian, CHEN Yue, <u>HSU Sam H Y</u>, JIA Guohua, "Bandgap Funneling in Bismuth-Based Hybrid Perovskite Photocatalyst with Efficient Visible-Light-Driven Hydrogen Evolution", <i>Small Methods</i>, 6(8), 22 June 2022, doi: <a href="https://doi.org/10.1002/smt.202200326">https://doi.org/10.1002/smt.202200326</a>.</p>   |
| MOU Jinhua    | <p><u>WANG Zhenyao</u>, #MOU Jinhua, #QIN Zihao, <u>HE Yuhe</u>, SUN Zheng, WANG Xiang, <u>LIN Sze Ki Carol</u>, "An auxin-like supermolecule to simultaneously enhance growth and cumulative eicosapentaenoic acid production in <i>Phaeodactylum tricornutum</i>", <i>Bioresource Technology</i>, 345, 13 December 2021, doi: <a href="https://doi.org/10.1016/j.biortech.2021.126564">https://doi.org/10.1016/j.biortech.2021.126564</a>.</p>   |
|               | <p>WANG Xiang, #MOU Jinhua, #QIN Zihao, HAO Ting-Bin, ZHENG Lan, BUHAGIAR Joseph, LIU Yu-Hong, BALAMURUGAN Srinivasan, HE Yuhe, <u>LIN Sze Ki Carol</u>, YANG Wei-Dong, LI Hong-Ye, "Supplementation with <i>rac</i>-GR24 Facilitates the Accumulation of Biomass and Astaxanthin in Two Successive Stages of <i>Haematococcus pluvialis</i> Cultivation", <i>Journal of Agricultural and Food Chemistry</i>, 70(15), 06 April 2022, pp 4677-4689, doi: <a href="https://doi.org/10.1021/acs.jafc.2c00479">https://doi.org/10.1021/acs.jafc.2c00479</a>.</p>           |
|               | <p>YE Guang-Bin , #QIN Zihao, BIN Xiao-Yun , #MOU Jinhua, <u>LIN Sze Ki Carol</u>, LI Hong-Ye, WANG Xiang, "3-Oxoacyl acyl carrier protein reductase overexpression reveals its unprecedented roles in biofuel production and high-temperature tolerance in diatom", <i>Fuel</i>, 325, 18 June 2022, doi: <a href="https://doi.org/10.1016/j.fuel.2022.124844">https://doi.org/10.1016/j.fuel.2022.124844</a>.</p>   |
|               | <p>WANG Xiang, #QIN Zihao, HAO Ting-Bin, YE Guang-Bin , #MOU Jinhua, BALAMURUGAN Srinivasan, BIN Xiao-Yun , BUHAGIAR Joseph, WANG Hong-Mei , <u>LIN Sze Ki Carol</u>, YANG Wei-Dong, LI Hong-Ye, "A combined light regime and carbon supply regulation strategy for microalgae-based sugar industry wastewater treatment and low-carbon biofuel production to realise a circular economy", <i>Chemical Engineering Journal</i>, 446(Part 4), 07 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137422">https://doi.org/10.1016/j.cej.2022.137422</a>.</p> |
|               | <p>ZHENG Zhangqin, WANG Xueying, JIN Jing, HAO Jihua, NIE Yaguang, CHEN Xin, #MOU Jinhua, EMSLIE Steven D., LIU Xiaodong, "Fraction distribution and dynamic cycling of phosphorus in lacustrine sediment at Inexpressible Island, Antarctica", <i>Environment International</i>, 164, 15 April 2022, doi: <a href="https://doi.org/10.1016/j.envint.2022.107228">https://doi.org/10.1016/j.envint.2022.107228</a>.</p>  |
|               | <p>#MOU Jinhua, TAHAR Imen Ben, <u>WANG Zhenyao</u>, <u>ONG Khai Lun</u>, LI Chong, #QIN Zihao, WANG Xiang, <u>LIN Sze Ki Carol</u>, FICKERS Patrick, "Enhancing the recombinant protein productivity of <i>Yarrowia lipolytica</i> using <i>in situ</i> fibrous bed bioreactor", <i>Bioresource Technology</i>, 340, 27 July 2021, doi: <a href="https://doi.org/10.1016/j.biortech.2021.125672">https://doi.org/10.1016/j.biortech.2021.125672</a>.</p>  |
|               | <p>WANG Xiang, LI Chong, LAM Jason, SUBRAMANIAN SENTHILKANNAN Karpagam, #QIN Zihao, #MOU Jinhua, #JIN Mushan, <u>CHOPRA Shauhrat Singh</u>, SINGH Vijay, OK Yong-Sik, YAN Jianbin, LI Hong-Ye, <u>LIN Sze Ki Carol</u>, "Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability", <i>Journal of Hazardous Materials</i>, 423, 25 August 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.127023">https://doi.org/10.1016/j.jhazmat.2021.127023</a>.</p>   |

Section A: Publications of PhD Students

|   |   |
|---|---|
| <b>NALLAPANENI Manoj Kumar</b>  | CHAKRABORTY Suprava, #NALLAPANENI Manoj Kumar, JAYAKUMAR Arunkumar, DASH Santanu Kumar, ELANGO VAN Devaraj, "Selected Aspects of Sustainable Mobility Reveals Implementable Approaches and Conceivable Actions", <i>Sustainability</i> , 13(22), 22 November 2021, doi: <a href="https://doi.org/10.3390/su132212918">https://doi.org/10.3390/su132212918</a> .   |
|   | GYAMFI Bright Akwasi, ADEBAYO Tomiwa Sunday, BEKUN Festus Victor, AGYEKUM Ephraim Bonah, #NALLAPANENI Manoj Kumar, ALHELOU Hassan Haes, AL-HINAI Amer, "Beyond environmental Kuznets curve and policy implications to promote sustainable development in Mediterranean", <i>Energy Reports</i> , 7, 24 September 2021, pp 6119-6129, doi: <a href="https://doi.org/10.1016/j.egyr.2021.09.056">https://doi.org/10.1016/j.egyr.2021.09.056</a> .   |
|   | AGYEKUM Ephraim Bonah, #NALLAPANENI Manoj Kumar, MEHMOOD Usman, PANJWANI Manoj Kumar, HAES ALHELOU Hassan, ADEBAYO Tomiwa Sunday, AL-HINAI Amer, "Decarbonize Russia — A Best–Worst Method approach for assessing the renewable energy potentials, opportunities and challenges", <i>Energy Reports</i> , 7, 28 July 2021, pp 4498-4515, doi: <a href="https://doi.org/10.1016/j.egyr.2021.07.039">https://doi.org/10.1016/j.egyr.2021.07.039</a> .   |
|   | KOLLI Meena Kumari, OPP Christian, KARTHE Daniel, #NALLAPANENI Manoj Kumar, "Web-Based Decision Support System for Managing the Food–Water–Soil–Ecosystem Nexus in the Kolleru Freshwater Lake of Andhra Pradesh in South India", <i>Sustainability</i> , 14(4), 11 February 2022, pp 2044, doi: <a href="https://doi.org/10.3390/su14042044">https://doi.org/10.3390/su14042044</a> .  |
|   | S. Sheik Mohammed, TITUS Femin, THANIKANTI Sudhakar Babu, M. Sulaiman S., DEB Sanchari, #NALLAPANENI Manoj Kumar, "Charge Scheduling Optimization of Plug-In Electric Vehicle in a PV Powered Grid-Connected Charging Station Based on Day-Ahead Solar Energy Forecasting in Australia", <i>Sustainability</i> , 14(6), 16 March 2022, doi: <a href="https://doi.org/10.3390/su14063498">https://doi.org/10.3390/su14063498</a> .   |
|   | GORJIAN Shiva, BOUSI Erion, ÖZDEMİR Özal Emre, TROMMSDORFF Max, #NALLAPANENI Manoj Kumar, ANAND Abhishek, KANT Karunesh, CHOPRA Shauhrat Singh, "Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology", <i>Renewable and Sustainable Energy Reviews</i> , 158, 18 January 2022, doi: <a href="https://doi.org/10.1016/j.rser.2022.112126">https://doi.org/10.1016/j.rser.2022.112126</a> .                           |
|   | YUAN Xiangzhou, #NALLAPANENI Manoj Kumar, BRIGLJEVIĆ Boris, LI Shuangjun, DENG Shuai, BYUN Manhee, LEE Boreum, LIN Sze Ki Carol, TSANG Daniel C.W., LEE Ki Bong, CHOPRA Shauhrat Singh, LIM Hankwon, OK Yong Sik, "Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO <sub>2</sub> capture", <i>Green Chemistry</i> , 24(4), 10 January 2022, pp 1494-1504, doi: <a href="https://doi.org/10.1039/d1gc03600a">https://doi.org/10.1039/d1gc03600a</a> . |
|   | NIXON Peter Daniel, BABY Ruby, #NALLAPANENI Manoj Kumar, ANANTHI Nallamuthu, "Natural Dyes from Ornamental Plants as Sensitizers for Dye-Sensitized Solar Cells (DSSCs): A Review on the Structure-Activity Relationships (SARs) between Power Conversion Efficiencies and Chemical Constituents", <i>Russian Journal of Applied Chemistry</i> , 94(12), December 2021, pp 1561-1576, doi: <a href="https://doi.org/10.1134/S1070427221120016">https://doi.org/10.1134/S1070427221120016</a> .              |
|   | THAEER HAMMID Ali, AWAD Omar I., #NALLAPANENI Manoj Kumar, "Salp swarm algorithm to solve Short-Term hydrothermal scheduling problem", <i>Materials Today: Proceedings</i> , 27 July 2021, doi: <a href="https://doi.org/10.1016/j.matpr.2021.07.348">https://doi.org/10.1016/j.matpr.2021.07.348</a> .   |
|   | HAQUE Md Ariful, LIU Zifei, DEMILADE Akinbile, #NALLAPANENI Manoj Kumar, "Assessing the Environmental Footprint of Distiller-Dried Grains with Soluble Diet as a Substitute for Standard Corn–Soybean for Swine Production in the United States of America", <i>Sustainability</i> , 14(3), 20 January 2022, doi: <a href="https://doi.org/10.3390/su14031161">https://doi.org/10.3390/su14031161</a> .   |
| PRASAD Kushal A., CHAND Aneesh A., #NALLAPANENI Manoj Kumar, NARAYAN Sumesh, MAMUN Kabir A., "A Critical Review of Power Take-Off Wave Energy Technology Leading to the Conceptual Design of a Novel Wave-Plus-Photon Energy Harvester for Island/Coastal Communities' Energy Needs", <i>Sustainability</i> , 14(4), 18 February 2022, doi: <a href="https://doi.org/10.3390/su14042354">https://doi.org/10.3390/su14042354</a> . |   |
| ELAVARASAN Rajvikram Madurai, PUGAZHENDHI Rishi, SHAFIULLAH G. M., #NALLAPANENI Manoj Kumar, ARIF Mohammad Taufiqul, JAMAL Taskin, CHOPRA Shauhrat Singh, DYDUCH Joanna, "Impacts of COVID-19 on Sustainable Development  |   |

Section A: Publications of PhD Students

|                  |   |
|------------------|---|
|                  | Goals and effective approaches to maneuver them in the post-pandemic environment", <i>Environmental Science and Pollution Research</i> , 29(25), 15 January 2022, pp 33957–33987, doi: <a href="https://doi.org/10.1007/s11356-021-17793-9">https://doi.org/10.1007/s11356-021-17793-9</a> .  |
|                  | RAFIQ NAZER Mohammad Nor, NOORWALI Abdulfattah, TAJUDDIN Mohammad Faridun Naim, KHAN Mohammad Zubair, AHMAD TAZALLY Mohamad Afiq Izzat, AHMED Jubaer, BABU Thanikanti Sudhakar, GHAZALI Nur Hafizah, CHAKRABORTY Chinmay, #NALLAPANENI Manoj Kumar, "Scenario-Based Investigation on the Effect of Partial Shading Condition Patterns for Different Static Solar Photovoltaic Array Configurations", <i>IEEE Access</i> , 9, 16 August 2021, pp 116050-116072, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3105045">https://doi.org/10.1109/ACCESS.2021.3105045</a> . |
|                  | SARAVANAN P., ETTAPPAN M., #NALLAPANENI Manoj Kumar, ELANGKEERAN N., "Exhaust Gas Recirculation on a Nano-Coated Combustion Chamber of a Diesel Engine Fueled with Waste Plastic Oil", <i>Sustainability</i> , 14(3), 20 January 2022, doi: <a href="https://doi.org/10.3390/su14031148">https://doi.org/10.3390/su14031148</a> .   |
|                  | ADEBAYO Tomiwa Sunday, AWOSUSI Abraham Ayobamiji, OLADIPUPO Seun Damola, AGYEKUM Ephraim Bonah, JAYAKUMAR Arunkumar, #NALLAPANENI Manoj Kumar, "Dominance of Fossil Fuels in Japan's National Energy Mix and Implications for Environmental Sustainability", <i>International Journal of Environmental Research and Public Health</i> , 18(14), 09 July 2021, doi: <a href="https://doi.org/10.3390/ijerph18147347">https://doi.org/10.3390/ijerph18147347</a> .  |
|                  | PODDER Amit Kumer, SUPTI Sayma Afroza, ISLAM Sayemul, MALVONI Maria, JAYAKUMAR Arunkumar, DEB Sanchari, #NALLAPANENI Manoj Kumar, "Feasibility assessment of hybrid solar photovoltaic-biogas generator based charging station: A case of easy bike and auto rickshaw scenario in a developing nation", <i>Sustainability</i> , 14(1), 24 December 2021, doi: <a href="https://doi.org/10.3390/su14010166">https://doi.org/10.3390/su14010166</a> .   |
|                  | PODDER Amit Kumer, DAS Anik Kumar, HOSSAIN Eklas, #NALLAPANENI Manoj Kumar, ROY Naruttam Kumar, ALHELOU Hassan Haes, KARTHICK Alagar, AL-HINAI Amer, "Integrated modeling and feasibility analysis of a rooftop photovoltaic systems for an academic building in Bangladesh", <i>International Journal of Low-Carbon Technologies</i> , 16(4), 20 July 2021, pp 1317–1327, doi: <a href="https://doi.org/10.1093/ijlct/ctab056">https://doi.org/10.1093/ijlct/ctab056</a> .   |
|                  | JAYAKUMAR Arunkumar, MADHESWARAN Dinesh Kumar, #NALLAPANENI Manoj Kumar, "A critical assessment on functional attributes and degradation mechanism of membrane electrode assembly components in direct methanol fuel cells", <i>Sustainability (Switzerland)</i> , 13(24), 16 December 2021, doi: <a href="https://doi.org/10.3390/su132413938">https://doi.org/10.3390/su132413938</a> .   |
|                  | #NALLAPANENI Manoj Kumar, CHAKRABORTY Suprava, KUMAR YADAV Satish, SINGH Jyotsna, CHOPRA Shauhrat Singh, "Advancing simulation tools specific to floating solar photovoltaic systems – Comparative analysis of field-measured and simulated energy performance", <i>Sustainable Energy Technologies and Assessments</i> , 52(Part B), 24 March 2022, doi: <a href="https://doi.org/10.1016/j.seta.2022.102168">https://doi.org/10.1016/j.seta.2022.102168</a> .   |
|                  | BABY Ruby, NIXON Peter Daniel, #NALLAPANENI Manoj Kumar, SUBATHRA M. S. P., ANANTHI Nallamuthu, "A comprehensive review of dye-sensitized solar cell optimal fabrication conditions, natural dye selection, and application-based future perspectives", <i>Environmental Science and Pollution Research</i> , 29(1), 21 October 2021, pp 371–404, doi: <a href="https://doi.org/10.1007/s11356-021-16976-8">https://doi.org/10.1007/s11356-021-16976-8</a> .  |
|                  | DAS Soumya Ranjan, RAY Prakash Kumar, SAHOO Arun Kumar, RAMASUBBAREDDY Somula, BABU Thanikanti Sudhakar, #NALLAPANENI Manoj Kumar, ELAVARASAN Rajvikram Madurai, MIHET-POPA Lucian, "A Comprehensive Survey on Different Control Strategies and Applications of Active Power Filters for Power Quality Improvement", <i>Energies</i> , 14(15), 29 July 2021, doi: <a href="https://doi.org/10.3390/en14154589">https://doi.org/10.3390/en14154589</a> .   |
| <b>PENG Yong</b> | #PENG Yong, DU Minshu, ZOU Xingli, JIA Guohua, SANTOSO Shella Permatasari, PENG Xiang, NIU Wenxin, YUAN Mingjian, HSU Sam H Y, "Suppressing photoinduced charge recombination at the BiVO <sub>4</sub>   NiOOH junction by sandwiching an oxygen vacancy layer for efficient photoelectrochemical water oxidation", <i>Journal of Colloid and Interface Science</i> , 608(Part 2), 23 October 2021, pp 1116-1125, doi: <a href="https://doi.org/10.1016/j.jcis.2021.10.063">https://doi.org/10.1016/j.jcis.2021.10.063</a> .  |

Section A: Publications of PhD Students

|            |  |
|------------|--|
|            | <p>#PENG Yong, #MAK Chun Hong, <u>KAI Ji-jung</u>, DU Minshu, JI Li, YUAN Mingjian, ZOU Xingli, SHEN Hsin-Hui, SANTOSO Shella Permatasari, COLMENARES Juan Carlos, <u>HSU Sam H Y</u>, "Recent progress on post-synthetic treatments of photoelectrodes for photoelectrochemical water splitting", <i>Journal of Materials Chemistry A</i>, 9(47), 23 November 2021, pp 26628-26649, doi: <a href="https://doi.org/10.1039/d1ta05935a">https://doi.org/10.1039/d1ta05935a</a>.</p>   |
| PENG Zehua | <p>#ZHANG Zhuomin, #LIU Shiyuan, #PAN Qiqi, #HONG Ying, #SHAN Yao, #PENG Zehua, #XU Xiaote, LIU Bingren, <u>CHAI Yu</u>, <u>YANG Zhengbao</u>, "Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films", <i>Advanced Materials</i>, 34(26), 22 May 2022, doi: <a href="https://doi.org/10.1002/adma.202200864">https://doi.org/10.1002/adma.202200864</a>.</p>   |
|            | <p><u>WANG Yao</u>, <u>ZHANG Yanjun</u>, <u>DONG Shuyu</u>, <u>ZHOU Wenchong</u>, <u>LEE Pui Kit</u>, #PENG Zehua, <u>DANG Chaoqun</u>, <u>SIT Patrick</u>, <u>GUO Junpo</u>, <u>YU Yau Wai Denis</u>, "An All-Fluorinated Electrolyte Toward High Voltage and Long Cycle Performance Dual-Ion Batteries", <i>Advanced Energy Materials</i>, 12(19), 09 February 2022, doi: <a href="https://doi.org/10.1002/aenm.202103360">https://doi.org/10.1002/aenm.202103360</a>.</p>   |
|            | <p>#<u>LI Xin</u>, HAI Guangtong, LIU Jin, ZHAO Fenglin, #PENG Zehua, LIU Honghong, <u>LEUNG Kwok Hi Michael</u>, WANG Haihui, "Bio-inspired NiCoP/CoMoP/Co(Mo<sub>3</sub>Se<sub>4</sub>)<sub>4</sub> @C/NF multi-heterojunction nanoflowers: Effective catalytic nitrogen reduction by driving electron transfer", <i>Applied Catalysis B: Environmental</i>, 314, 18 May 2022, doi: <a href="https://doi.org/10.1016/j.apcatb.2022.121531">https://doi.org/10.1016/j.apcatb.2022.121531</a>.</p>   |
| QIN Zihao  | <p><u>WANG Zhenyao</u>, #MOU Jinhua, #QIN Zihao, <u>HE Yuhe</u>, SUN Zheng, WANG Xiang, <u>LIN Sze Ki Carol</u>, "An auxin-like supermolecule to simultaneously enhance growth and cumulative eicosapentaenoic acid production in <i>Phaeodactylum tricornutum</i>", <i>Bioresource Technology</i>, 345, 13 December 2021, doi: <a href="https://doi.org/10.1016/j.biortech.2021.126564">https://doi.org/10.1016/j.biortech.2021.126564</a>.</p>   |
|            | <p>WANG Xiang, #MOU Jinhua, #QIN Zihao, HAO Ting-Bin, ZHENG Lan, BUHAGIAR Joseph, LIU Yu-Hong, BALAMURUGAN Srinivasan, <u>HE Yuhe</u>, <u>LIN Sze Ki Carol</u>, YANG Wei-Dong, LI Hong-Ye, "Supplementation with <i>rac</i>-GR24 Facilitates the Accumulation of Biomass and Astaxanthin in Two Successive Stages of <i>Haematococcus pluvialis</i> Cultivation", <i>Journal of Agricultural and Food Chemistry</i>, 70(15), 06 April 2022, pp 4677-4689, doi: <a href="https://doi.org/10.1021/acs.jafc.2c00479">https://doi.org/10.1021/acs.jafc.2c00479</a>.</p>                                  |
|            | <p>YE Guang-Bin , #QIN Zihao, BIN Xiao-Yun , #MOU Jinhua, <u>LIN Sze Ki Carol</u>, LI Hong-Ye, WANG Xiang, "3-Oxoacyl acyl carrier protein reductase overexpression reveals its unprecedented roles in biofuel production and high-temperature tolerance in diatom", <i>Fuel</i>, 325, 18 June 2022, doi: <a href="https://doi.org/10.1016/j.fuel.2022.124844">https://doi.org/10.1016/j.fuel.2022.124844</a>.</p>   |
|            | <p>WANG Xiang, #QIN Zihao, HAO Ting-Bin, YE Guang-Bin , #MOU Jinhua, BALAMURUGAN Srinivasan, BIN Xiao-Yun , BUHAGIAR Joseph, WANG Hong-Mei , <u>LIN Sze Ki Carol</u>, YANG Wei-Dong, LI Hong-Ye, "A combined light regime and carbon supply regulation strategy for microalgae-based sugar industry wastewater treatment and low-carbon biofuel production to realise a circular economy", <i>Chemical Engineering Journal</i>, 446(Part 4), 07 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137422">https://doi.org/10.1016/j.cej.2022.137422</a>.</p>                               |
|            | <p><u>HAQUE Md Ariful</u>, <u>PRIYA Anshu</u>, #HATHI Zubeen Jyotiwan, #QIN Zihao, <u>METTU Srinivas</u>, <u>LIN Sze Ki Carol</u>, "Advancements and current challenges in the sustainable downstream processing of bacterial polyhydroxyalkanoates", <i>Current Opinion in Green and Sustainable Chemistry</i>, 36, 02 May 2022, doi: <a href="https://doi.org/10.1016/j.cogsc.2022.100631">https://doi.org/10.1016/j.cogsc.2022.100631</a>.</p>  |
|            | <p>#MOU Jinhua, TAHAR Imen Ben, <u>WANG Zhenyao</u>, <u>ONG Khai Lun</u>, LI Chong, #QIN Zihao, WANG Xiang, <u>LIN Sze Ki Carol</u>, <u>FICKERS Patrick</u>, "Enhancing the recombinant protein productivity of <i>Yarrowia lipolytica</i> using <i>in situ</i> fibrous bed bioreactor", <i>Bioresource Technology</i>, 340, 27 July 2021, doi: <a href="https://doi.org/10.1016/j.biortech.2021.125672">https://doi.org/10.1016/j.biortech.2021.125672</a>.</p>   |
|            | <p>SUBRAMANIAN SENTHILKANNAN Karpagam, SARKAR Manas Kumar, WANG Huaimin, #QIN Zihao, <u>CHOPRA Shauhrat Singh</u>, #JIN Mushan, KUMAR Vinod, CHEN Chao, <u>TSANG Chi-Wing</u>, <u>LIN Sze Ki Carol</u>, "An overview of cotton and polyester, and their blended waste textile valorisation to value-added products: A circular economy approach—research trends, opportunities and challenges", <i>Critical Reviews in Environmental Science and Technology</i>, 23 August 2021, doi: <a href="https://doi.org/10.1080/10643389.2021.1966254">https://doi.org/10.1080/10643389.2021.1966254</a>.</p> |

Section A: Publications of PhD Students

|   |  |
|---|--|
|   | <p>WANG Xiang, LI Chong, LAM Jason, SUBRAMANIAN SENTHILKANNAN Karpagam, #QIN Zihao, #MOU Jinhua, #JIN Mushan, CHOPRA Shauhrat Singh, SINGH Vijay, OK Yong-Sik, YAN Jianbin, LI Hong-Ye, LIN Sze Ki Carol, "Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability", <i>Journal of Hazardous Materials</i>, 423, 25 August 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.127023">https://doi.org/10.1016/j.jhazmat.2021.127023</a>.</p> |
| SONG Zaixin   | <p>ZHAO Hang, LIU Chunhua, #SONG Zaixin, #LIU Senyi, "Design and Control of A New Compound Double-Rotor Electric Machine for Hybrid Propulsion System", <i>IEEE Transactions on Power Electronics</i>, 37(3), 10 September 2021, pp 3283-3296, doi: <a href="https://doi.org/10.1109/TPEL.2021.3111815">https://doi.org/10.1109/TPEL.2021.3111815</a>.</p>   |
|   | <p>#SONG Zaixin, LIU Chunhua, "Energy efficient design and implementation of electric machines in air transport propulsion system", <i>Applied Energy</i>, 322, 20 June 2022, doi: <a href="https://doi.org/10.1016/j.apenergy.2022.119472">https://doi.org/10.1016/j.apenergy.2022.119472</a>.</p>  |
|   | <p>#CHEN Yong, LIU Chunhua, #LIU Senyi, #SONG Zaixin, "A New Cascaded Adaptive Deadbeat Control Method for PMSM Drive", <i>IEEE Transactions on Industrial Electronics</i>, 01 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3177808">https://doi.org/10.1109/TIE.2022.3177808</a>.</p>  |
|   | <p>#SONG Zaixin, #HUANG Rundong, #WANG Wusen, #LIU Senyi, LIU Chunhua, "An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air Cooling", <i>IEEE Transactions on Energy Conversion</i>, 30 May 2022, doi: <a href="https://doi.org/10.1109/TEC.2022.3179172">https://doi.org/10.1109/TEC.2022.3179172</a>.</p>   |
|   | <p>#SONG Zaixin, LIU Chunhua, #CHEN Yong, #HUANG Rundong, "Air-gap Permeance and Reluctance Network Models for Analyzing Vibrational Exciting Force of In-wheel PMSM", <i>IEEE Transactions on Vehicular Technology</i>, 13 April 2022, doi: <a href="https://doi.org/10.1109/TVT.2022.3167131">https://doi.org/10.1109/TVT.2022.3167131</a>.</p>  |
|   | <p>#WANG Wusen, #SONG Zaixin, #LIU Yuxin, LIU Chunhua, "Decoupled Modulation Scheme for Harmonic Current Suppression in Five-Phase PMSM", <i>IEEE Transactions on Power Electronics</i>, 37(8), 14 March 2022, pp 8795-8799, doi: <a href="https://doi.org/10.1109/TPEL.2022.3156389">https://doi.org/10.1109/TPEL.2022.3156389</a>.</p>   |
|   | <p>ZHAO Hang, LIU Chunhua, #SONG Zaixin, #LIU Senyi, "Analysis and Design Considerations of a Dual-Rotor Multiple-Winding Machine", <i>IEEE Transactions on Industrial Electronics</i>, 69(9), 29 September 2021, pp 8727-8738, doi: <a href="https://doi.org/10.1109/TIE.2021.3114736">https://doi.org/10.1109/TIE.2021.3114736</a>.</p>  |
|   | <p>ZHAO Hang, CHAU K. T., YANG Tengbo, #SONG Zaixin, LIU Chunhua, "A Novel Quasi-3D Analytical Model for Axial Flux Motors Considering Magnetic Saturation", <i>IEEE Transactions on Energy Conversion</i>, 06 December 2021, doi: <a href="https://doi.org/10.1109/TEC.2021.3132618">https://doi.org/10.1109/TEC.2021.3132618</a>.</p>  |
|   | <p>#SONG Zaixin, LIU Chunhua, ZHAO Hang, #HUANG Rundong, "Nonlinear Force and Vibration Analysis of an Interior Permanent Magnet Synchronous Generator With Eccentricity Detection", <i>IEEE/ASME Transactions on Mechatronics</i>, 22 October 2021, doi: <a href="https://doi.org/10.1109/TMECH.2021.3118316">https://doi.org/10.1109/TMECH.2021.3118316</a>.</p>   |
|   | <p>#DONG Zhiping, LIU Chunhua, #LIU Senyi, #SONG Zaixin, "Deadbeat predictive current control for series-winding pmsm drive with half-bridge power module-based inverter", <i>Energies</i>, 14(15), 30 July 2021, doi: <a href="https://doi.org/10.3390/en14154620">https://doi.org/10.3390/en14154620</a>.</p>  |
|   | <p>#WANG Wusen, LIU Chunhua, #SONG Zaixin, #DONG Zhiping, "Harmonic Current Suppression for Dual Three-Phase PMSM Based on Deadbeat Control and Disturbance Observer", <i>IEEE Transactions on Industrial Electronics</i>, 01 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3177818">https://doi.org/10.1109/TIE.2022.3177818</a>.</p>   |
|   | <p>#SONG Zaixin, LIU Chunhua, #DONG Zhiping, #HUANG Rundong, "Improved Multi-Stage Decoupling Space Vector Modulation for Asymmetrical Multi-Phase PMSM with Series Winding Connection", <i>IEEE Transactions on Power Electronics</i>, 37(9), 29 March 2022, pp 10951-10966, doi: <a href="https://doi.org/10.1109/TPEL.2022.3163275">https://doi.org/10.1109/TPEL.2022.3163275</a>.</p>  |
|   | <p>ZHANG Bowen, #SONG Zaixin, ZHAO Fei, LIU Chunhua, "Overview of Propulsion Systems for Unmanned Aerial Vehicles", <i>Energies</i>, 15(2), 10 January 2022, doi: <a href="https://doi.org/10.3390/en15020455">https://doi.org/10.3390/en15020455</a>.</p>   |
| <p>#LIU Senyi, LIU Chunhua, #SONG Zaixin, #DONG Zhiping, #HUANG Yongcan, "Candidate Modulation Patterns Solution for Five-Phase PMSM Drive System", <i>IEEE Transactions on</i></p> |  |

Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | <p><i>Transportation Electrification</i>, 8(1), 16 August 2021, pp 1194-1208, doi: <a href="https://doi.org/10.1109/TTE.2021.3104876">https://doi.org/10.1109/TTE.2021.3104876</a>.</p> <p>#WANG Wusen, LIU Chunhua, ZHAO Hang, #SONG Zaixin, "Improved Deadbeat-Direct Torque and Flux Control for PMSM with Less Computation and Enhanced Robustness", <i>IEEE Transactions on Industrial Electronics</i>, 03 May 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3170619">https://doi.org/10.1109/TIE.2022.3170619</a>.</p> <p>#HUANG Rundong, #SONG Zaixin, ZHAO Hang, LIU Chunhua, "Overview of Axial-Flux Machines and Modeling Methods", <i>IEEE Transactions on Transportation Electrification</i>, 8(2), 20 January 2022, pp 2118-2132, doi: <a href="https://doi.org/10.1109/TTE.2022.3144594">https://doi.org/10.1109/TTE.2022.3144594</a>.</p>   |
| <b>SUI Yunren</b>    | <p>#SUI Zengguang, #SUI Yunren, WU Wei, "Multi-objective optimization of a microchannel membrane-based absorber with inclined grooves based on CFD and machine learning", <i>Energy</i>, 240, 03 December 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122809">https://doi.org/10.1016/j.energy.2021.122809</a>.</p> <p>WU Wei, #ZHAI Chong, HUANG Si-Min, #SUI Yunren, #SUI Zengguang, #DING Zhixiong, "A hybrid H<sub>2</sub>O/IL absorption and CO<sub>2</sub> compression air-source heat pump for ultra-low ambient temperatures", <i>Energy</i>, 239(Part B), 28 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122180">https://doi.org/10.1016/j.energy.2021.122180</a>.</p> <p>#SUI Yunren, #ZHAI Chong, WU Wei, LEUNG Kwok Hi Michael, "Multi-scale Computer-aided molecular design of Ionic liquid for absorption heat transformer based on Machine learning", <i>Energy Conversion and Management</i>, 261, 28 April 2022, doi: <a href="https://doi.org/10.1016/j.enconman.2022.115617">https://doi.org/10.1016/j.enconman.2022.115617</a>.</p>   |
| <b>SUI Zengguang</b> | <p>#SUI Zengguang, #ZHAI Chong, WU Wei, "Parametric and comparative study on enhanced microchannel membrane-based absorber structures for compact absorption refrigeration", <i>Renewable Energy</i>, 187, 23 January 2022, pp 109-122, doi: <a href="https://doi.org/10.1016/j.renene.2022.01.052">https://doi.org/10.1016/j.renene.2022.01.052</a>.</p> <p>#SUI Zengguang, #SUI Yunren, WU Wei, "Multi-objective optimization of a microchannel membrane-based absorber with inclined grooves based on CFD and machine learning", <i>Energy</i>, 240, 03 December 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122809">https://doi.org/10.1016/j.energy.2021.122809</a>.</p> <p>WU Wei, #ZHAI Chong, HUANG Si-Min, #SUI Yunren, #SUI Zengguang, #DING Zhixiong, "A hybrid H<sub>2</sub>O/IL absorption and CO<sub>2</sub> compression air-source heat pump for ultra-low ambient temperatures", <i>Energy</i>, 239(Part B), 28 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122180">https://doi.org/10.1016/j.energy.2021.122180</a>.</p>   |
| <b>SUN Jiaji</b>     | <p>#SUN Jiaji, #YANG Shiyi, ZHOU Guangjie, ZHANG Kai, #LU Yichun, JIN Qianqian, LAM Kwan Sing Paul, LEUNG Mei Yee Kenneth, HE Yuhe, "Release of Microplastics from Discarded Surgical Masks and Their Adverse Impacts on the Marine Copepod <i>Tigriopus japonicus</i>", <i>Environmental Science and Technology Letters</i>, 8(12), 11 November 2021, pp 1065–1070, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00748">https://doi.org/10.1021/acs.estlett.1c00748</a>.</p> <p>JIN Qianqian, #TAO Danyang, #LU Yichun, #SUN Jiaji, LAM Jason, SU Guanyong, HE Yuhe, "New insight on occurrence of liquid crystal monomers: A class of emerging e-waste pollutants in municipal landfill leachate", <i>Journal of Hazardous Materials</i>, 423, 10 September 2021, doi: <a href="https://doi.org/10.1016/j.jhazmat.2021.127146">https://doi.org/10.1016/j.jhazmat.2021.127146</a>.</p>  |
| <b>SUN Jiawei</b>    | <p>#SUN Jiawei, JIA Wei, GUO Jiaxin, KHANZADA Noman Khalid, JIN Pengrui, #WONG Pak Wai, #ZHANG Xinning, AN Kyoung Jin Alicia, "Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation", <i>Desalination</i>, 533, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.desal.2022.115742">https://doi.org/10.1016/j.desal.2022.115742</a>.</p> <p>GUO Jiaxin, DEKA Bhaskar Jyoti, #WONG Pak Wai, #SUN Jiawei, AN Kyoung Jin Alicia, "Fabrication of robust green superhydrophobic hybrid nanofiber-nanosphere membrane for membrane distillation", <i>Desalination</i>, 520, 15 September 2021, doi: <a href="https://doi.org/10.1016/j.desal.2021.115314">https://doi.org/10.1016/j.desal.2021.115314</a>.</p> <p>ZHANG Baoping, #WONG Pak Wai, GUO Jiaxin, #ZHOU Yongsen, WANG Yang, #SUN Jiawei, JIANG Mengnan, WANG Zuankai, AN Kyoung Jin Alicia, "Transforming Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene's intrinsic hydrophilicity into superhydrophobicity for efficient photothermal membrane desalination", <i>Nature Communications</i>, 13, 08 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31028-6">https://doi.org/10.1038/s41467-022-31028-6</a>.</p> <p>JIA Wei, #KHARRAZ Jihad Abbaas Abed Alhaleem, #SUN Jiawei, AN Kyoung Jin Alicia, "Hierarchical Janus membrane via a sequential electrospray coating method with</p> |

## Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | wetting and fouling resistance for membrane distillation", <i>Desalination</i> , 520, 14 September 2021, doi: <a href="https://doi.org/10.1016/j.desal.2021.115313">https://doi.org/10.1016/j.desal.2021.115313</a> .   |
| <b>TAN Tian</b>      | # <a href="#">TAN Tian</a> , <a href="#">LEE Pui Kit</a> , <a href="#">YU Yau Wai Denis</a> , "Improving Thermal Stability of Si-Based Anodes for Lithium-Ion Batteries by Controlling Bulk and Surface Layer Compositions", <i>Journal of the Electrochemical Society</i> , 168(10), 22 October 2021, doi: <a href="https://doi.org/10.1149/1945-7111/ac2f07">https://doi.org/10.1149/1945-7111/ac2f07</a> .   |
|                      | # <a href="#">TAN Tian</a> , <a href="#">LEE Pui Kit</a> , <a href="#">ZETTSU Nobuyuki</a> , <a href="#">TESHIMA Katsuya</a> , <a href="#">YU Yau Wai Denis</a> , "Passivating oxygen atoms in SiO through pre-treatment with Na <sub>2</sub> CO <sub>3</sub> to increase its first cycle efficiency for lithium-ion batteries", <i>Electrochimica Acta</i> , 404, 22 December 2021, doi: <a href="https://doi.org/10.1016/j.electacta.2021.139777">https://doi.org/10.1016/j.electacta.2021.139777</a> .   |
| <b>TANG Yunqi</b>    | FU Yu, <a href="#">PODDAR Swapnadeep</a> , <a href="#">REN Beitao</a> , <a href="#">XIE Ying</a> , <a href="#">ZHANG Qianpeng</a> , <a href="#">ZHANG Daquan</a> , <a href="#">CAO Bryan</a> , # <a href="#">TANG Yunqi</a> , <a href="#">DING Yucheng</a> , <a href="#">QIU Xiao</a> , <a href="#">SHU Lei</a> , <a href="#">LIAO Jin-Feng</a> , <a href="#">KUANG Dai-Bin</a> , <a href="#">FAN Zhiyong</a> , "Strongly Quantum-Confined Perovskite Nanowire Arrays for Color-Tunable Blue-Light-Emitting Diodes", <i>ACS Nano</i> , 16(5), 06 May 2022, pp 8388–8398, doi: <a href="https://doi.org/10.1021/acsnano.2c02795">https://doi.org/10.1021/acsnano.2c02795</a> .   |
|                      | # <a href="#">TANG Yunqi</a> , # <a href="#">MAK Chun Hong</a> , <a href="#">JIA Guohua</a> , <a href="#">CHENG Kuan-Chen</a> , <a href="#">KAI Ji-jung</a> , <a href="#">HSIEH Chang-Wei</a> , <a href="#">MENG Fanxu</a> , <a href="#">NIU Wenxin</a> , <a href="#">LI Fang-Fang</a> , <a href="#">SHEN Hsin-Hui</a> , <a href="#">ZHU Xunjin</a> , <a href="#">CHEN Hao Ming</a> , <a href="#">HSU Sam H Y</a> , "Lead-free hybrid perovskite photocatalysts: surface engineering, charge-carrier behaviors, and solar-driven applications", <i>Journal of Materials Chemistry A</i> , 10(23), 13 April 2022, pp 12296-12316, doi: <a href="https://doi.org/10.1039/d2ta01170k">https://doi.org/10.1039/d2ta01170k</a> . |
|                      | # <a href="#">TANG Yunqi</a> , # <a href="#">MAK Chun Hong</a> , <a href="#">WANG Chen</a> , <a href="#">FU Yu</a> , <a href="#">LI Fang-Fang</a> , <a href="#">HSIEH Chang-Wei</a> , <a href="#">SHEN Hsin-Hui</a> , <a href="#">COLMENARES Juan Carlos</a> , <a href="#">SONG Haisheng</a> , <a href="#">YUAN Mingjian</a> , <a href="#">CHEN Yue</a> , <a href="#">HSU Sam H Y</a> , <a href="#">JIA Guohua</a> , "Bandgap Funneling in Bismuth-Based Hybrid Perovskite Photocatalyst with Efficient Visible-Light-Driven Hydrogen Evolution", <i>Small Methods</i> , 6(8), 22 June 2022, doi: <a href="https://doi.org/10.1002/smt.202200326">https://doi.org/10.1002/smt.202200326</a> .                               |
| <b>TIAN Xiaomeng</b> | <a href="#">CHEN Dihui</a> , <a href="#">YAO Xiaohong</a> , <a href="#">CHAN Chak Keung</a> , # <a href="#">TIAN Xiaomeng</a> , <a href="#">CHU Yangxi</a> , <a href="#">CLEGG Simon Leslie</a> , <a href="#">SHEN Yanjie</a> , <a href="#">GAO Yang</a> , <a href="#">GAO Huiwang</a> , "Competitive Uptake of Dimethylamine and Trimethylamine against Ammonia on Acidic Particles in Marine Atmospheres", <i>Environmental Science and Technology</i> , 56(9), 18 April 2022, pp 5430-5439, doi: <a href="https://doi.org/10.1021/acs.est.1c08713">https://doi.org/10.1021/acs.est.1c08713</a> .   |
|                      | # <a href="#">LIANG Zhancong</a> , # <a href="#">CHAN Wing Lam</a> , # <a href="#">TIAN Xiaomeng</a> , <a href="#">LAI Chi Keung Alvin</a> , <a href="#">LEE Patrick Kwan Hon</a> , <a href="#">CHAN Chak Keung</a> , "Inactivation of <i>Escherichia coli</i> in droplets at different ambient relative humidities: Effects of phase transition, solute and cell concentrations", <i>Atmospheric Environment</i> , 280, 22 April 2022, doi: <a href="https://doi.org/10.1016/j.atmosenv.2022.119066">https://doi.org/10.1016/j.atmosenv.2022.119066</a> .  |
|                      | # <a href="#">TIAN Xiaomeng</a> , <a href="#">CHU Yangxi</a> , <a href="#">CHAN Chak Keung</a> , "Reactive Uptake of Monoethanolamine by Sulfuric Acid Particles and Hygroscopicity of Monoethanolaminium Salts", <i>Environmental Science and Technology Letters</i> , 9(1), 08 December 2021, pp 16-21, doi: <a href="https://doi.org/10.1021/acs.estlett.1c00880">https://doi.org/10.1021/acs.estlett.1c00880</a> .  |
| <b>TIAN Ye</b>       | # <a href="#">TIAN Ye</a> , <a href="#">ZHOU Wen</a> , <a href="#">WONG W. K.</a> , "Detecting Interdecadal Change in Western North Pacific Tropical Cyclone Genesis Based on Cluster Analysis Using pHash + Kmeans", <i>Frontiers in Earth Science</i> , 9, 08 February 2022, doi: <a href="https://doi.org/10.3389/feart.2021.825835">https://doi.org/10.3389/feart.2021.825835</a> .   |
| <b>TIAN Yuanmeng</b> | <a href="#">SHANG Shanshan</a> , <a href="#">WEN Chengyan</a> , <a href="#">YANG Chao</a> , # <a href="#">TIAN Yuanmeng</a> , <a href="#">WANG Chenguang</a> , <a href="#">SHANG Jin</a> , "The low-temperature NO <sub>2</sub> removal by tailoring metal node in porphyrin-based metal-organic frameworks", <i>Science of the Total Environment</i> , 801, 18 August 2021, doi: <a href="https://doi.org/10.1016/j.scitotenv.2021.149710">https://doi.org/10.1016/j.scitotenv.2021.149710</a> .   |
| <b>TO Ming Ho</b>    | # <a href="#">TO Ming Ho</a> , <a href="#">WANG Huaimin</a> , <a href="#">LAM Tsz Nok</a> , <a href="#">KAUR Guneet</a> , <a href="#">ROELANTS Sophie L.K.W.</a> , <a href="#">LIN Sze Ki Carol</a> , "Influence of bioprocess parameters on sophorolipid production from bakery waste oil", <i>Chemical Engineering Journal</i> , 429, 03 September 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.132246">https://doi.org/10.1016/j.cej.2021.132246</a> .   |
|                      | <a href="#">JING Houde</a> , <a href="#">WANG Huaimin</a> , <a href="#">LIN Sze Ki Carol</a> , <a href="#">ZHUANG Huichuan</a> , # <a href="#">TO Ming Ho</a> , <a href="#">LEU Shao Yuan</a> , "Biorefinery potential of chemically enhanced primary treatment sewage sludge to representative value-added chemicals - A de novo angle for wastewater  |



Section A: Publications of PhD Students

|  |   |
|--|---|
|  | treatment", <i>Bioresource Technology</i> , 339, 17 July 2021, doi: <a href="https://doi.org/10.1016/j.biortech.2021.125583">https://doi.org/10.1016/j.biortech.2021.125583</a> .   |
| <b>UTOMO Wahyu Prasetyo</b>                | SUBAGYO Riki, TEHUBIJULUW Hellna, # <a href="#">UTOMO Wahyu Prasetyo</a> , RIZQI Hamdan Dwi, KUSUMAWATI Yuly, BAHRUJI Hasliza, PRASETYOKO Didik, "Converting red mud wastes into mesoporous ZSM-5 decorated with TiO <sub>2</sub> as an eco-friendly and efficient adsorbent-photocatalyst for dyes removal", <i>Arabian Journal of Chemistry</i> , 15(5), 03 February 2022, doi: <a href="https://doi.org/10.1016/j.arabjc.2022.103754">https://doi.org/10.1016/j.arabjc.2022.103754</a> .   |
|  | # <a href="#">UTOMO Wahyu Prasetyo</a> , <a href="#">LEUNG Kwok Hi Michael</a> , YIN Zongyou, <a href="#">WU Hao</a> , <a href="#">NG Yun Hau</a> , "Advancement of Bismuth-Based Materials for Electrocatalytic and Photo(electro)catalytic Ammonia Synthesis", <i>Advanced Functional Materials</i> , 32(4), 15 October 2021, doi: <a href="https://doi.org/10.1002/adfm.202106713">https://doi.org/10.1002/adfm.202106713</a> .  |
|  | # <a href="#">UTOMO Wahyu Prasetyo</a> , <a href="#">WU Hao</a> , <a href="#">NG Yun Hau</a> , "Modulating the Active Sites of Oxygen-Deficient TiO <sub>2</sub> by Copper Loading for Enhanced Electrocatalytic Nitrogen Reduction to Ammonia", <i>Small</i> , 23 April 2022, doi: <a href="https://doi.org/10.1002/sml.202200996">https://doi.org/10.1002/sml.202200996</a> .   |
|  | HARTANTO Djoko, YUHANEKA Grace, # <a href="#">UTOMO Wahyu Prasetyo</a> , ROZAFIA Ade Irma, KUSUMAWATI Yuly, DAHANI Wiwik, IRYANI Ani, "Unveiling the charge transfer behavior within ZSM-5 and carbon nitride composites for enhanced photocatalytic degradation of methylene blue", <i>RSC Advances</i> , 12(9), 16 February 2022, pp 5665-5676, doi: <a href="https://doi.org/10.1039/d1ra09406h">https://doi.org/10.1039/d1ra09406h</a> .  |
| <b>WANG Huanhuan</b>                       | # <a href="#">WANG Huanhuan</a> , <a href="#">NGAN Keith</a> , "Effects of inhomogeneous ground-level pollutant sources under different wind directions", <i>Environmental Pollution</i> , 289, 04 August 2021, doi: <a href="https://doi.org/10.1016/j.envpol.2021.117903">https://doi.org/10.1016/j.envpol.2021.117903</a> .  |
| <b>WANG Wusen</b>                          | # <a href="#">SONG Zaixin</a> , # <a href="#">HUANG Rundong</a> , # <a href="#">WANG Wusen</a> , # <a href="#">LIU Senyi</a> , <a href="#">LIU Chunhua</a> , "An Improved Dual Iterative Transient Thermal Network Model for PMSM with Natural Air Cooling", <i>IEEE Transactions on Energy Conversion</i> , 30 May 2022, doi: <a href="https://doi.org/10.1109/TEC.2022.3179172">https://doi.org/10.1109/TEC.2022.3179172</a> .  |
|  | # <a href="#">WANG Wusen</a> , # <a href="#">SONG Zaixin</a> , # <a href="#">LIU Yuxin</a> , <a href="#">LIU Chunhua</a> , "Decoupled Modulation Scheme for Harmonic Current Suppression in Five-Phase PMSM", <i>IEEE Transactions on Power Electronics</i> , 37(8), 14 March 2022, pp 8795-8799, doi: <a href="https://doi.org/10.1109/TPEL.2022.3156389">https://doi.org/10.1109/TPEL.2022.3156389</a> .  |
|  | # <a href="#">WANG Wusen</a> , <a href="#">LIU Chunhua</a> , # <a href="#">SONG Zaixin</a> , # <a href="#">DONG Zhiping</a> , "Harmonic Current Suppression for Dual Three-Phase PMSM Based on Deadbeat Control and Disturbance Observer", <i>IEEE Transactions on Industrial Electronics</i> , 01 June 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3177818">https://doi.org/10.1109/TIE.2022.3177818</a> .  |
|  | # <a href="#">WANG Wusen</a> , <a href="#">LIU Chunhua</a> , <a href="#">ZHAO Hang</a> , # <a href="#">SONG Zaixin</a> , "Improved Deadbeat-Direct Torque and Flux Control for PMSM with Less Computation and Enhanced Robustness", <i>IEEE Transactions on Industrial Electronics</i> , 03 May 2022, doi: <a href="https://doi.org/10.1109/TIE.2022.3170619">https://doi.org/10.1109/TIE.2022.3170619</a> .  |
| <b>WEN Qingmei</b>                         | # <a href="#">WEN Qingmei</a> , <a href="#">LIU Gang</a> , <a href="#">WU Wei</a> , <a href="#">LIAO Shengming</a> , "Performance evaluation of distributed energy system integrating photovoltaic, ground source heat pump, and natural gas-based CCHP", <i>Energy Conversion and Management</i> , 252, 03 December 2021, doi: <a href="https://doi.org/10.1016/j.enconman.2021.115039">https://doi.org/10.1016/j.enconman.2021.115039</a> .   |
| <b>WIDANA ARACHCHIGE Erandani Lakshani</b> | # <a href="#">WIDANA ARACHCHIGE Erandani Lakshani</a> , <a href="#">ZHOU Wen</a> , <a href="#">CHEUNG King Yeung</a> , "Impacts of El Niño Diversity on Tropical Cyclone Activity in the Bay of Bengal", <i>Frontiers in Earth Science</i> , 10, 10 February 2022, doi: <a href="https://doi.org/10.3389/feart.2022.824769">https://doi.org/10.3389/feart.2022.824769</a> .   |
| <b>WONG Man Yi</b>                         | # <a href="#">WONG Man Yi</a> , # <a href="#">ZHU Yihao</a> , # <a href="#">ZENG Yijun</a> , <a href="#">HO Tsz Chung</a> , <a href="#">YANG Yinchuang</a> , <a href="#">QIU Huihe</a> , <a href="#">TSO Chi Yan</a> , "Thermal Rectification Enhancement of Coalescence–Jumping Phase Transition Thermal Diodes using Cu–Al <sub>2</sub> O <sub>3</sub> Hybrid Nanofluids", <i>Advanced Engineering Materials</i> , 24(6), 06 October 2021, doi: <a href="https://doi.org/10.1002/adem.202100958">https://doi.org/10.1002/adem.202100958</a> . |
| <b>WONG Pak Wai</b>                        | # <a href="#">WONG Pak Wai</a> , <a href="#">GUO Jiaxin</a> , <a href="#">KHANZADA Noman Khalid</a> , <a href="#">YIM Man Wai</a> , <a href="#">AN Kyoung Jin Alicia</a> , "In-situ 3D fouling visualization of membrane distillation treating industrial textile wastewater by optical coherence tomography imaging", <i>Water Research</i> , 205, 15 September 2021, doi: <a href="https://doi.org/10.1016/j.watres.2021.117668">https://doi.org/10.1016/j.watres.2021.117668</a> .   |

Section A: Publications of PhD Students

|                  |   |
|------------------|---|
|                  | <p><u>SHANG Wentao</u>, <u>YANG Songwen</u>, <u>LIU Wenjie</u>, #<u>WONG Pak Wai</u>, <u>WANG Rui</u>, <u>LI Xiaoyan</u>, <u>SHENG Guoping</u>, <u>LAU Woonming</u>, <u>AN Kyoung Jin Alicia</u>, <u>SUN Feiyun</u>, "Understanding the influence of hydraulic conditions on colloidal fouling development by using the micro-patterned nanofiltration membrane: Experiments and numerical simulation", <i>Journal of Membrane Science</i>, 654, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.memsci.2022.120559">https://doi.org/10.1016/j.memsci.2022.120559</a>.</p>             |
|                  | <p>#<u>SUN Jiawei</u>, <u>JIA Wei</u>, <u>GUO Jiaxin</u>, <u>KHANZADA Noman Khalid</u>, <u>JIN Pengrui</u>, #<u>WONG Pak Wai</u>, #<u>ZHANG Xinning</u>, <u>AN Kyoung Jin Alicia</u>, "Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation", <i>Desalination</i>, 533, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.desal.2022.115742">https://doi.org/10.1016/j.desal.2022.115742</a>.</p>  |
|                  | <p><u>GUO Jiaxin</u>, #<u>WONG Pak Wai</u>, <u>DEKA Bhaskar Jyoti</u>, <u>ZHANG Baoping</u>, <u>JEONG Sanghyun</u>, <u>AN Kyoung Jin Alicia</u>, "Investigation of fouling mechanism in membrane distillation using in-situ optical coherence tomography with green regeneration of fouled membrane", <i>Journal of Membrane Science</i>, 641, 25 September 2021, doi: <a href="https://doi.org/10.1016/j.memsci.2021.119894">https://doi.org/10.1016/j.memsci.2021.119894</a>.</p>   |
|                  | <p><u>KHANZADA Noman Khalid</u>, <u>DEKA Bhaskar Jyoti</u>, #<u>KHARRAZ Jehad Abbaas Abed Alhaleem</u>, #<u>WONG Pak Wai</u>, <u>JASSBY David</u>, <u>REHMAN Shazia</u>, <u>LEU Shao Yuan</u>, <u>KUMAR Manish</u>, <u>AN Kyoung Jin Alicia</u>, "Elucidating the role of graphene oxide layers in enhancing N-Nitrosodimethylamine (NDMA) rejection and antibiofouling property of RO membrane simultaneously", <i>Journal of Membrane Science</i>, 643, 05 November 2021, doi: <a href="https://doi.org/10.1016/j.memsci.2021.120043">https://doi.org/10.1016/j.memsci.2021.120043</a>.</p> |
|                  | <p><u>GUO Jiaxin</u>, <u>DEKA Bhaskar Jyoti</u>, #<u>WONG Pak Wai</u>, #<u>SUN Jiawei</u>, <u>AN Kyoung Jin Alicia</u>, "Fabrication of robust green superhydrophobic hybrid nanofiber-nanosphere membrane for membrane distillation", <i>Desalination</i>, 520, 15 September 2021, doi: <a href="https://doi.org/10.1016/j.desal.2021.115314">https://doi.org/10.1016/j.desal.2021.115314</a>.</p>   |
|                  | <p><u>ZHANG Baoping</u>, #<u>WONG Pak Wai</u>, <u>GUO Jiaxin</u>, #<u>ZHOU Yongsen</u>, <u>WANG Yang</u>, #<u>SUN Jiawei</u>, <u>JIAN Mengnan</u>, <u>WANG Zuankai</u>, <u>AN Kyoung Jin Alicia</u>, "Transforming Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene's intrinsic hydrophilicity into superhydrophobicity for efficient photothermal membrane desalination", <i>Nature Communications</i>, 13, 08 June 2022, doi: <a href="https://doi.org/10.1038/s41467-022-31028-6">https://doi.org/10.1038/s41467-022-31028-6</a>.</p>  |
|                  | <p>#<u>WONG Pak Wai</u>, <u>YIM Man Wai</u>, <u>GUO Jiaxin</u>, <u>CHAN Ben Sun</u>, <u>DEKA Bhaskar Jyoti</u>, <u>AN Kyoung Jin Alicia</u>, "Noninvasive Real-Time Monitoring of Wetting Progression in Membrane Distillation Using Impedance Spectroscopy", <i>Environmental Science and Technology</i>, 56(1), 22 December 2021, pp 535–545, doi: <a href="https://doi.org/10.1021/acs.est.1c04433">https://doi.org/10.1021/acs.est.1c04433</a>.</p>   |
|                  | <p><u>ZHANG Baoping</u>, #<u>WONG Pak Wai</u>, <u>AN Kyoung Jin Alicia</u>, "Photothermally enabled MXene hydrogel membrane with integrated solar-driven evaporation and photodegradation for efficient water purification", <i>Chemical Engineering Journal</i>, 430, 20 October 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.133054">https://doi.org/10.1016/j.cej.2021.133054</a>.</p>   |
| <b>XIAO Jie</b>  | <p>#<u>XIAO Jie</u>, <u>LYU Shaoliang</u>, <u>IQBAL Teuku H.</u>, <u>HAJISAMAE Sukree</u>, <u>TSIM Karl W.K.</u>, <u>WANG Wenxiong</u>, "Molecular phylogenetic and morphometric analysis of population structure and demography of endangered threadfin fish <i>Eleutheronema</i> from Indo-Pacific waters", <i>Scientific Reports</i>, 12, 02 March 2022, doi: <a href="https://doi.org/10.1038/s41598-022-07342-w">https://doi.org/10.1038/s41598-022-07342-w</a>.</p>   |
| <b>XU Zizhen</b> | <p>#<u>XU Zizhen</u>, <u>CHOPRA Shauhrat Singh</u>, <u>LEE Hoi Nam Hellas</u>, "Resilient Urban Public Transportation Infrastructure: A Comparison of Five Flow-Weighted Metro Networks in Terms of the Resilience Cycle Framework", <i>IEEE Transactions on Intelligent Transportation Systems</i>, 01 November 2021, doi: <a href="https://doi.org/10.1109/TITS.2021.3116667">https://doi.org/10.1109/TITS.2021.3116667</a>.</p>  |
|                  | <p>#<u>XU Zizhen</u>, <u>ZHANG Chuwei</u>, <u>CHOPRA Shauhrat Singh</u>, "Robustness assessment of public bus transit system with a response-integrated approach for a resilient public transport system in Hong Kong", <i>Transportmetrica B: Transport Dynamics</i>, 17 May 2022, doi: <a href="https://doi.org/10.1080/21680566.2022.2071354">https://doi.org/10.1080/21680566.2022.2071354</a>.</p>   |
|                  | <p>#<u>XU Zizhen</u>, <u>CHOPRA Shauhrat Singh</u>, "Network-based Assessment of Metro Infrastructure with a Spatial-temporal Resilience Cycle Framework", <i>Reliability</i></p>   |

## Section A: Publications of PhD Students

|                      |   |
|----------------------|---|
|                      | <i>Engineering &amp; System Safety</i> , 223, 08 March 2022, doi: <a href="https://doi.org/10.1016/j.res.2022.108434">https://doi.org/10.1016/j.res.2022.108434</a> .   |
| <b>XUE Kaiming</b>   | #XUE Kaiming, WANG Huimin, LEE Pui Kit, DONG Shuyu, YU Yau Wai Denis, "Chelating Polymer-Coated Separators with a BaTiO <sub>3</sub> Filler to Improve Reversibility and Round-Trip Efficiency of a 3.3 v Copper-Lithium Battery", <i>ACS Applied Materials and Interfaces</i> , 13(40), 01 October 2021, pp 47449-47457, doi: <a href="https://doi.org/10.1021/acsami.1c11181">https://doi.org/10.1021/acsami.1c11181</a> .  |
| <b>YANG Junwei</b>   | NAH Ern Mei Theodora, #YANG Junwei, WANG Jian, SULLIVAN Amy P., WEBER Rodney, "Fine Aerosol Acidity and Water during Summer in the Eastern North Atlantic", <i>Atmosphere</i> , 12(8), 13 August 2021, doi: <a href="https://doi.org/10.3390/atmos12081040">https://doi.org/10.3390/atmos12081040</a> .<br>#YANG Junwei, #AU Wing Chi, #LAW Haymann, LEUNG Chun Hei, LAM Jason, NAH Ern Mei Theodora, "pH affects the aqueous-phase nitrate-mediated photooxidation of phenolic compounds: implications for brown carbon formation and evolution", <i>Environmental Sciences: Processes and Impacts</i> , 16 March 2022, doi: <a href="https://doi.org/10.1039/D2EM00004K">https://doi.org/10.1039/D2EM00004K</a> .   |
| <b>YEO Joonho</b>    | #YEO Joonho, CHOPRA Shauhrat Singh, VON EIFF David William, JEONG Sanghyun, ZHANG Lin, AN Kyoung Jin Alicia, "An integrated techno-economic analysis on wastewater reclamation in Hong Kong: A comprehensive cost – Benefit analysis with life cycle assessment", <i>Journal of Cleaner Production</i> , 357, 19 April 2022, doi: <a href="https://doi.org/10.1016/j.jclepro.2022.131838">https://doi.org/10.1016/j.jclepro.2022.131838</a> .   |
| <b>YU Xiaocheng</b>  | #YU Xiaocheng, ZHOU Wen, ZHANG Yue, "The decadal shift in TC-induced precipitation over China", <i>Atmospheric Research</i> , 274, 10 April 2022, doi: <a href="https://doi.org/10.1016/j.atmosres.2022.106186">https://doi.org/10.1016/j.atmosres.2022.106186</a> .  |
| <b>ZHAI Chong</b>    | #SUI Zengguang, #ZHAI Chong, WU Wei, "Parametric and comparative study on enhanced microchannel membrane-based absorber structures for compact absorption refrigeration", <i>Renewable Energy</i> , 187, 23 January 2022, pp 109-122, doi: <a href="https://doi.org/10.1016/j.renene.2022.01.052">https://doi.org/10.1016/j.renene.2022.01.052</a> .<br>#ZHAI Chong, WU Wei, "Energetic, exergetic, economic, and environmental analysis of microchannel membrane-based absorption refrigeration system driven by various energy sources", <i>Energy</i> , 239, 28 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122193">https://doi.org/10.1016/j.energy.2021.122193</a> .<br>WU Wei, #ZHAI Chong, HUANG Si-Min, #SUI Yunren, #SUI Zengguang, #DING Zhixiong, "A hybrid H <sub>2</sub> O/IL absorption and CO <sub>2</sub> compression air-source heat pump for ultra-low ambient temperatures", <i>Energy</i> , 239(Part B), 28 September 2021, doi: <a href="https://doi.org/10.1016/j.energy.2021.122180">https://doi.org/10.1016/j.energy.2021.122180</a> .<br>LIN Riyi, YUAN Rui, YANG Zhengda, #ZHAI Chong, WANG Xinwei, "Combustion characteristics and kinetic analysis of heavy oil during in-situ combustion process", <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 20 July 2021, doi: <a href="https://doi.org/10.1080/15567036.2021.1956018">https://doi.org/10.1080/15567036.2021.1956018</a> .<br>#SUI Yunren, #ZHAI Chong, WU Wei, LEUNG Kwok Hi Michael, "Multi-scale Computer-aided molecular design of Ionic liquid for absorption heat transformer based on Machine learning", <i>Energy Conversion and Management</i> , 261, 28 April 2022, doi: <a href="https://doi.org/10.1016/j.enconman.2022.115617">https://doi.org/10.1016/j.enconman.2022.115617</a> . |
| <b>ZHAN Yuting</b>   | #TAO Danyang, JIN Qianqian, RUAN Yuefei Phoebe, ZHANG Kai, JIN Linjie, #ZHAN Yuting, SU Guanyong, WU Jiayue, LEUNG Mei Yee Kenneth, LAM Kwan Sing Paul, HE Yuhe, "Widespread occurrence of emerging E-waste contaminants – Liquid crystal monomers in sediments of the Pearl River Estuary, China", <i>Journal of Hazardous Materials</i> , 437, 15 June 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.129377">https://doi.org/10.1016/j.jhazmat.2022.129377</a> .   |
| <b>ZHANG Hongyan</b> | #ZHANG Hongyan, SONG Yinqiu, WANG Deqing, PAN Shengjie, "基于 WSR 方法论的沿海地区环境污染治理评价体系构建研究", <i>管理评论</i> , 33(7), July 2021, pp 290-300.  |
| <b>ZHANG Ruifeng</b> | GEN Masao, #ZHANG Ruifeng, CHAN Chak Keung, "Nitrite/Nitrous Acid Generation from the Reaction of Nitrate and Fe(II) Promoted by Photolysis of Iron-Organic Complexes", <i>Environmental Science and Technology</i> , 55(23), 23 November 2021, pp 15715–15723, doi: <a href="https://doi.org/10.1021/acs.est.1c05641">https://doi.org/10.1021/acs.est.1c05641</a> .  |

## Section A: Publications of PhD Students

|               |  |
|---------------|--|
|               | <p>WANG Yalin, HUANG Wanyi, TIAN Linhui, WANG Yuchen, LI Fangbing, HUANG Dan Dan, #ZHANG Ruifeng, #MABATO Beatrix Rosette Go, HUANG Ru-Jin, CHEN Qi, GE Xinlei, DU Lin, MA Ying Ge, GEN Masao, HOI Ka In, MOK Kai Meng, YU Jian Z., CHAN Chak Keung, LI Xue, LI Yong Jie, "Decay Kinetics and Absorption Changes of Methoxyphenols and Nitrophenols during Nitrate-Mediated Aqueous Photochemical Oxidation at 254 and 313 nm", <i>ACS Earth and Space Chemistry</i>, 6(4), 28 March 2022, pp 1115–1125, doi: <a href="https://doi.org/10.1021/acsearthspacechem.2c00021">https://doi.org/10.1021/acsearthspacechem.2c00021</a>.</p> <p>#ZHANG Ruifeng, GEN Masao, #LIANG Zhancong, LI Yong Jie, CHAN Chak Keung, "Photochemical Reactions of Glyoxal during Particulate Ammonium Nitrate Photolysis: Brown Carbon Formation, Enhanced Glyoxal Decay, and Organic Phase Formation", <i>Environmental Science and Technology</i>, 56(3), 13 January 2022, pp 1605-1614, doi: <a href="https://doi.org/10.1021/acs.est.1c07211">https://doi.org/10.1021/acs.est.1c07211</a>.</p> <p>GEN Masao, #LIANG Zhancong, #ZHANG Ruifeng, #MABATO Beatrix Rosette Go, CHAN Chak Keung, "Particulate nitrate photolysis in the atmosphere", <i>Environmental Science: Atmospheres</i>, 2(2), 13 January 2022, pp 111-127, doi: <a href="https://doi.org/10.1039/d1ea00087j">https://doi.org/10.1039/d1ea00087j</a>.</p>   |
| ZHANG Xinning | <p>#SUN Jiawei, JIA Wei, GUO Jiaxin, KHANZADA Noman Khalid, JIN Pengrui, #WONG Pak Wai, #ZHANG Xinning, AN Kyoung Jin Alicia, "Amino-embedded carbon quantum dots incorporated thin-film nanocomposite membrane for desalination by pervaporation", <i>Desalination</i>, 533, 11 April 2022, doi: <a href="https://doi.org/10.1016/j.desal.2022.115742">https://doi.org/10.1016/j.desal.2022.115742</a>.</p> <p>ZHAO Yanhua, GUO Jiaxin, #LI Yuchao, #ZHANG Xinning, AN Kyoung Jin Alicia, WANG Zuankai, "Superhydrophobic and superoleophilic PH-CNT membrane for emulsified oil-water separation", <i>Desalination</i>, 526, 15 January 2022, doi: <a href="https://doi.org/10.1016/j.desal.2021.115536">https://doi.org/10.1016/j.desal.2021.115536</a>.</p>  |
| ZHANG Yizhen  | <p>LI Guang, CAO Xiao-qiang, MENG Na, HUANG Yi-meng, WANG Xu-dong, GAO Yuan-yuan, LI Xuan, YANG Ting-shu, LI Bo-lai, #ZHANG Yizhen, LYU Xian-jun, LIANG Yue, "Fe<sub>3</sub>O<sub>4</sub> supported on water caltrop-derived biochar toward peroxymonosulfate activation for urea degradation: the key role of sulfate radical", <i>Chemical Engineering Journal</i>, 433(2), 14 November 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.133595">https://doi.org/10.1016/j.cej.2021.133595</a>.</p> <p>HE Yun, #CHEN Keda, LEUNG Kwok Hi Michael, #ZHANG Yizhen, LI Li, LI Guisheng, XUAN Jin, LI Jianfen, "Photocatalytic fuel cell – A review", <i>Chemical Engineering Journal</i>, 428, 04 July 2021, doi: <a href="https://doi.org/10.1016/j.cej.2021.131074">https://doi.org/10.1016/j.cej.2021.131074</a>.</p> <p>CAO Xiao-qiang, XIAO Fei, LYU Zhi-wen, XIE Xiao-yu, ZHANG Zhi-xing, DONG Xing, WANG Jun-xiang, LYU Xian-jun, #ZHANG Yizhen, LIANG Yue, "CuFe<sub>2</sub>O<sub>4</sub> supported on montmorillonite to activate peroxymonosulfate for efficient ofloxacin degradation", <i>Journal of Water Process Engineering</i>, 44, 23 October 2021, doi: <a href="https://doi.org/10.1016/j.jwpe.2021.102359">https://doi.org/10.1016/j.jwpe.2021.102359</a>.</p>  |
| ZHAO Yu       | <p>HE Shenggong, HUANG Shimin, #ZHAO Yu, QIN Haiqing, SHAN Yan, HOU Xianhua, "Design of a Dual-Electrolyte Battery System Based on a High-Energy NCM811-Si/C Full Battery Electrode-Compatible Electrolyte", <i>ACS Applied Materials and Interfaces</i>, 13(45), 08 November 2021, pp 54069–54078, doi: <a href="https://doi.org/10.1021/acsaami.1c17841">https://doi.org/10.1021/acsaami.1c17841</a>.</p> <p>LIU Jiefei, #ZHAO Yu, HUANG Xiaofeng, ZHOU Yu, LAM Kwok-Ho, YU Yau Wai Denis, HOU Xianhua, "NASICON-structured Na<sub>3</sub>MnTi(PO<sub>4</sub>)<sub>2.83</sub>F<sub>0.5</sub> cathode with high energy density and rate performance for sodium-ion batteries", <i>Chemical Engineering Journal</i>, 435, 21 January 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.134839">https://doi.org/10.1016/j.cej.2022.134839</a>.</p> <p>#ZHAO Yu, LIU Jiefei, ZHOU Yu, HUANG Xiaofeng, LIU Qiqi, CHEN Fuming, QIN Haiqing, LOU Hongtao, YU Yau Wai Denis, HOU Xianhua, "Defect-Rich Amorphous Iron-Based Oxide/Graphene Hybrid-Modified Separator toward the Efficient Capture and Catalysis of Polysulfides", <i>ACS Applied Materials and Interfaces</i>, 13(35), 27 August 2021, pp 41698–41706, doi: <a href="https://doi.org/10.1021/acsaami.1c11594">https://doi.org/10.1021/acsaami.1c11594</a>.</p> <p>HUANG Xiaofeng, #ZHAO Yu, LIN Kangshou, LIU Xiang, ZHAO Jinzhu, CHEN Hedong, WANG Zhoulou, HOU Xianhua, "Vertical 2-dimensional heterostructure SnS-SnS<sub>2</sub> with built-in electric field on rGO to accelerate charge transfer and improve the shuttle effect of polysulfides", <i>Journal of Colloid and Interface Science</i>, 608, 23 September 2021, pp 120-130, doi: <a href="https://doi.org/10.1016/j.jcis.2021.09.120">https://doi.org/10.1016/j.jcis.2021.09.120</a>.</p> |

Section A: Publications of PhD Students

|                          |  |
|--------------------------|--|
| <b>ZHOU Jinsong</b>      | <u>LIU Jin</u> , #ZHOU Jinsong, <u>LEUNG Kwok Hi Michael</u> , "Valence Engineering of Polyvalent Cobalt Encapsulated in a Carbon Nanofiber as an Efficient Trifunctional Electrocatalyst for the Zn-Air Battery and Overall Water Splitting", <i>ACS Applied Materials and Interfaces</i> , 14(3), 11 January 2022, pp 4399–4408, doi: <a href="https://doi.org/10.1021/acsami.1c18384">https://doi.org/10.1021/acsami.1c18384</a> .  |
| <b>ZHOU Liyuan</b>       | #ZHOU Liyuan, LI Mei, CHENG Chunlei, ZHOU Zhen, NIAN Huiqing, <u>TANG Rongzhi</u> , <u>CHAN Chak Keung</u> , "Real-time chemical characterization of single ambient particles at a port city in Chinese domestic emission control area — Impacts of ship emissions on urban air quality", <i>Science of the Total Environment</i> , 819, 15 January 2022, doi: <a href="https://doi.org/10.1016/j.scitotenv.2022.153117">https://doi.org/10.1016/j.scitotenv.2022.153117</a> .                             |
|                          | #ZHOU Liyuan, SALVADOR Christian M., PRIESTLEY Michael, HALLQUIST Mattias, <u>LIU Qianyun</u> , <u>CHAN Chak Keung</u> , HALLQUIST Åsa M., "Emissions and Secondary Formation of Air Pollutants from Modern Heavy-Duty Trucks in Real-World Traffic—Chemical Characteristics Using On-Line Mass Spectrometry", <i>Environmental Science and Technology</i> , 55(21), 15 October 2021, pp 14515–14525, doi: <a href="https://doi.org/10.1021/acs.est.1c00412">https://doi.org/10.1021/acs.est.1c00412</a> . |
|                          | XING Li, FU Tzung-May, <u>LIU Tengyu</u> , QIN Yiming, #ZHOU Liyuan, <u>CHAN Chak Keung</u> , GUO Hai, YAO Dawen, DUAN Keqin, "Estimating organic aerosol emissions from cooking in winter over the Pearl River Delta region, China", <i>Environmental Pollution</i> , 292(Part A), 02 October 2021, doi: <a href="https://doi.org/10.1016/j.envpol.2021.118266">https://doi.org/10.1016/j.envpol.2021.118266</a> .  |
|                          | QIN Yiming, YE Jianhuai, OHNO Paul, LIU Pengfei, WANG Junfeng, FU Pingqing, #ZHOU Liyuan, LI Yong Jie, MARTIN Scot T., <u>CHAN Chak Keung</u> , "Assessing the Nonlinear Effect of Atmospheric Variables on Primary and Oxygenated Organic Aerosol Concentration Using Machine Learning", <i>ACS Earth and Space Chemistry</i> , 6(4), 10 March 2022, pp 1059–1066, doi: <a href="https://doi.org/10.1021/acsearthspacechem.1c00443">https://doi.org/10.1021/acsearthspacechem.1c00443</a> .               |
| <b>ZHOU You</b>          | #ZHOU You, LEUNG HO-yin and Marcus, TONG Xinzhao, <u>LEE Yik Yeung</u> , <u>LEE Patrick Kwan Hon</u> , "City-Scale Meta-Analysis of Indoor Airborne Microbiota Reveals that Taxonomic and Functional Compositions Vary with Building Types", <i>Environmental Science &amp; Technology</i> , 55(22), 05 November 2021, pp 15051–15062, doi: <a href="https://doi.org/10.1021/acs.est.1c03941">https://doi.org/10.1021/acs.est.1c03941</a> .  |
| <b>ZHU Yihao</b>         | #WONG Man Yi, #ZHU Yihao, #ZENG Yijun, <u>HO Tsz Chung</u> , YANG Yinchuang, QIU Huihe, <u>TSO Chi Yan</u> , "Thermal Rectification Enhancement of Coalescence–Jumping Phase Transition Thermal Diodes using Cu–Al <sub>2</sub> O <sub>3</sub> Hybrid Nanofluids", <i>Advanced Engineering Materials</i> , 24(6), 06 October 2021, doi: <a href="https://doi.org/10.1002/adem.202100958">https://doi.org/10.1002/adem.202100958</a> .  |
|                          | #ZHU Yihao, <u>HO Tsz Chung</u> , <u>LEE Hau Him</u> , <u>LEUNG Kwok Hi Michael</u> , <u>TSO Chi Yan</u> , "Droplet jumping physics on biphilic surfaces with different nanostructures and surface orientations under various air pressure conditions", <i>Cell Reports Physical Science</i> , 3(4), 08 April 2022, doi: <a href="https://doi.org/10.1016/j.xcrp.2022.100849">https://doi.org/10.1016/j.xcrp.2022.100849</a> .   |
| <b>Conference papers</b> |  |
| <b>DONG Zhiping</b>      | #DONG Zhiping, #LIU Yuxin, #HUANG Rundong, <u>LIU Chunhua</u> , "Comparative Study on Topologies of Three-Level and Open-Winding Converters for PMSM Drives", <i>IEEE PEAS 2021 - 2021 IEEE 1st International Power Electronics and Application Symposium - Conference Proceedings</i> , Shanghai, China, 12-15 November 2021, pp 252-256, (ISBN: 978-1-6654-1359-6,978-1-6654-1360-2).  |
| <b>FIRDOUS Irum</b>      | #LO Sik Chun Johnny, CHAO C.Y.H., <u>CHOPRA Shauhrat Singh</u> , <u>DAOUD Walid</u> , LEU S, NING Zhi, <u>TSO Chi Yan</u> , <u>CHAN Chak Keung</u> , TANG S, <u>LEE Hau Him</u> , #FIRDOUS Irum, DEKAF BJ, <u>LIN Sze Ki Carol</u> , "Food Waste-derived Medical Textiles via Electrospinning for Healthcare Apparel and Personal Protective Equipment", <i>The CORFU 2022 9th International Conference on Sustainable Solid Waste Management, Corfu, Greece</i> .   |
| <b>HUANG Rundong</b>     | #DONG Zhiping, #LIU Yuxin, #HUANG Rundong, <u>LIU Chunhua</u> , "Comparative Study on Topologies of Three-Level and Open-Winding Converters for PMSM Drives", <i>IEEE PEAS 2021 - 2021 IEEE 1st International Power Electronics and Application Symposium - Conference Proceedings</i> , Shanghai, China, 12-15 November 2021, pp 252-256, (ISBN: 978-1-6654-1359-6,978-1-6654-1360-2).  |
| <b>LIU Yuxin</b>         | #DONG Zhiping, #LIU Yuxin, #HUANG Rundong, <u>LIU Chunhua</u> , "Comparative Study on Topologies of Three-Level and Open-Winding Converters for PMSM Drives", <i>IEEE PEAS 2021 - 2021 IEEE 1st International Power Electronics and Application Symposium -</i>  |

Section A: Publications of PhD Students

|   |  |
|---|--|
|   | <i>Conference Proceedings</i> , Shanghai, China, 12-15 November 2021, pp 252-256, (ISBN: 978-1-6654-1359-6,978-1-6654-1360-2).   |
| <b>LO Sik Chun Johnny</b>                             | # <a href="#">LO Sik Chun Johnny</a> , <a href="#">CHAO C.Y.H.</a> , <a href="#">CHOPRA Shauhrat Singh</a> , <a href="#">DAOUD Walid</a> , <a href="#">LEU S</a> , <a href="#">NING Zhi</a> , <a href="#">TSO Chi Yan</a> , <a href="#">CHAN Chak Keung</a> , <a href="#">TANG S</a> , <a href="#">LEE Hau Him</a> , <a href="#">#FIRDOUS Irum</a> , <a href="#">DEKAF BJ</a> , <a href="#">LIN Sze Ki Carol</a> , "Food Waste-derived Medical Textiles via Electrospinning for Healthcare Apparel and Personal Protective Equipment", <i>The CORFU 2022 9th International Conference on Sustainable Solid Waste Management, Corfu, Greece</i> . |
| <b>NALLAPANENI Manoj Kumar</b>                        | CHAND Aneesh A., PRASAD Kushal A., SHARMA Krishneel R., NARAYAN Sumesh, MAMUN Kabir A., ISLAM F.r., # <a href="#">NALLAPANENI Manoj Kumar</a> , <a href="#">CHOPRA Shauhrat Singh</a> , "IMPROVING OVERALL EQUIPMENT EFFECTIVENESS BY ENABLING AUTONOMOUS MAINTENANCE PILLAR FOR INTEGRATED WORK SYSTEMS", <i>Conference Proceedings - International Mechanical Engineering Congress and Exposition</i> , Virtual, Online, 01-05 November 2021, (ISBN: 978-0-7918-8569-7).   |
| <b>Patents, agreements, assignments and companies</b> |  |
| <b>BAI Shengxi</b>                                    | # <a href="#">CHEN Siru</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">HO Tsz Chung</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint, Patent No.: HK30053899, Hong Kong, 11 February 2022.   |
|   | <a href="#">LEE Hau Him</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">LIN Kaixin</a> , <a href="#">TSO Chi Yan</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">CHEN Siru</a> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 07 June 2022.   |
|   | <a href="#">LEE Hau Him</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">LIN Kaixin</a> , <a href="#">TSO Chi Yan</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">CHEN Siru</a> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 08 February 2022.   |
| <b>CHEN Siru</b>                                      | # <a href="#">CHEN Siru</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">HO Tsz Chung</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint, Patent No.: HK30053899, Hong Kong, 11 February 2022.   |
|   | # <a href="#">DU Yuwei</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">CHEN Siru</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , # <a href="#">ZHU Yihao</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">ZENG Yijun</a> , A Multi-layer Particle-embedded Passive Radiative Cooling Paint, Patent No.: HK30045313, Hong Kong, 15 October 2021.   |
|   | <a href="#">LEE Hau Him</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">LIN Kaixin</a> , <a href="#">TSO Chi Yan</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">CHEN Siru</a> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 07 June 2022.   |
|   | <a href="#">LEE Hau Him</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">LIN Kaixin</a> , <a href="#">TSO Chi Yan</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">CHEN Siru</a> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 08 February 2022.   |
| <b>DU Yuwei</b>                                       | # <a href="#">DU Yuwei</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">CHEN Siru</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , # <a href="#">ZHU Yihao</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">ZENG Yijun</a> , A Multi-layer Particle-embedded Passive Radiative Cooling Paint, Patent No.: HK30045313, Hong Kong, 15 October 2021.   |
| <b>LIN Kaixin</b>                                     | # <a href="#">CHEN Siru</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , <a href="#">HO Tsz Chung</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint, Patent No.: HK30053899, Hong Kong, 11 February 2022.   |
|   | # <a href="#">DU Yuwei</a> , <a href="#">TSO Chi Yan</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">CHEN Siru</a> , <a href="#">LEE Hau Him</a> , # <a href="#">LIN Kaixin</a> , # <a href="#">ZHU Yihao</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">ZENG Yijun</a> , A Multi-layer Particle-embedded Passive Radiative Cooling Paint, Patent No.: HK30045313, Hong Kong, 15 October 2021.   |
|   | <a href="#">LEE Hau Him</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">LIN Kaixin</a> , <a href="#">TSO Chi Yan</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">CHEN Siru</a> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 07 June 2022.   |
|   | <a href="#">LEE Hau Him</a> , # <a href="#">BAI Shengxi</a> , # <a href="#">CHAO Luke Christopher</a> , # <a href="#">LIN Kaixin</a> , <a href="#">TSO Chi Yan</a> , <a href="#">HO Tsz Chung</a> , # <a href="#">CHEN Siru</a> , "Radiative Cooling Paint And Method for Covering A Surface with  |

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|   |   |
|---|---|
|   | The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 08 February 2022.  |
| <b>ZHU Yihao</b>                              | #DU Yuwei, TSO Chi Yan, #CHAO Luke Christopher, #CHEN Siru, LEE Hau Him, #LIN Kaixin, #ZHU Yihao, HO Tsz Chung, #ZENG Yijun, A Multi-layer Particle-embedded Passive Radiative Cooling Paint, Patent No.: HK30045313, Hong Kong, 15 October 2021.   |
| <b>All other outputs</b>                      |   |
| <b>AN Yao</b>                                 | #AN Yao, <i>Achieving Sustainability in a World with Climate Change</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 11 August 2021.   |
| <b>AO Kelong</b>                              | #AO Kelong, <i>Liquid and Flexible Zinc-Air Batteries Based on Advanced Transition-Metal-Based Electrocatalysts</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 29 April 2022.  |
| <b>CHOI Paula Jungwon</b>                     | #CHOI Paula Jungwon, <i>Forward Osmosis: Membrane Fabrication, System Optimization and Designing Hybrid Process</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 02 September 2021.  |
| <b>HU Xiaomeng</b>                            | #HU Xiaomeng, <i>The Application of the Dynamic Life Cycle Assessment (dLCA) Framework to Guide Sustainable Design of Emerging Technologies</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.   |
| <b>HUANG Yongcan</b>                          | #HUANG Yongcan, <i>Design, Analysis, and Application of Wireless Motor Drives</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 22 November 2021.   |
| <b>JIAN Yuntao</b>                            | #JIAN Yuntao, <i>Relationship between ENSO and Winter Synoptic Temperature Variability over Asian-Pacific-American Region under Global Warming</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.  |
| <b>JIN Mushan</b>                             | #JIN Mushan, <i>Situating Smart City Discourse in Strategic Urban Planning in China: Discursive Practices, Policy Networks, and Institutional Arrangements</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 15 October 2021.   |
| <b>KHARRAZ Jehad Abbaas<br/>Abed Alhaleem</b> | #KHARRAZ Jehad Abbaas Abed Alhaleem, <i>Wetting, Scaling, and Fouling in Membrane Distillation: Mitigation Strategies via Development of Advanced Membranes with Special Wettability and Application of Nanobubbles</i> , PhD Thesis, School of Energy and Environment, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 27 August 2021.   |
| <b>LIU Sai</b>                                | #LIU Sai, <i>High Performance Spectral Regulation Thermochromic Smart Windows for Energy Conservation in Buildings</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 30 May 2022.<br><br>TSO Chi Yan, #LIU Sai, Gold Medal at 2022 Inventions Geneva Evaluation Days, The project "Intelligent Thermo-responsive Window for Indoor Thermal Management and Energy Saving in Buildings" received the Gold Medal at Inventions Geneva Evaluation Days (IGED) 2022. IGED is the world's most important annual event devoted exclusively to invention.<br><br>The novel smart window can autonomously regulate solar transmittance in response to the outside temperature. The smart window is transparent in cold weather, allowing solar radiation to pass through to warm a room, and is opaque in hot weather, blocking solar radiation to prevent overheating. This invention can promote the development of energy-efficient and sustainable buildings., Special Edition 2022 Inventions Geneva Evaluation Days, The International Exhibition of Inventions of Geneva, March 2022. |
| <b>LIU Senyi</b>                              | #LIU Senyi, <i>Model Predictive Controller Design and Application of Permanent Magnet Machines</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 20 July 2021.  |
| <b>NALLAPANENI Manoj<br/>Kumar</b>            | #NALLAPANENI Manoj Kumar, Associate Editor, <i>Frontiers in Energy Research</i> , April 2022 - April 2022.<br>#NALLAPANENI Manoj Kumar, Associate Editor, <i>Frontiers in Sustainability</i> , February 2022 - June 2022.<br>#NALLAPANENI Manoj Kumar, Guest Editor, <i>Sustainability</i> , October 2021 - June 2022.  |

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|                               | # <u>NALLAPANENI Manoj Kumar</u> , Guest Editor, <i>Energies</i> , October 2021 - June 2022.   |
|                               | # <u>NALLAPANENI Manoj Kumar</u> , Review Editor, <i>Frontiers in Energy Research</i> , July 2021 - June 2022.   |
|                               | # <u>NALLAPANENI Manoj Kumar</u> , Guest Editor, <i>Environmental Challenges</i> , October 2021 - June 2022.   |
|                               | # <u>NALLAPANENI Manoj Kumar</u> , Guest Editor, <i>Frontiers in Energy Research</i> , October 2021 - June 2022.   |
|                               | # <u>NALLAPANENI Manoj Kumar</u> , Guest Associate Editor, <i>Computers &amp; Electrical Engineering</i> , October 2021 - June 2022.   |
|                               | # <u>NALLAPANENI Manoj Kumar</u> , <i>Leveraging Blockchain and Smart Contract Technology for Sustainability and Resilience of Circular Economy Business Models</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 03 September 2021. |
| <b>PENG Yong</b>              | # <u>PENG Yong</u> , <i>Surface Modification of Metal Oxide Semiconductors with Improved Photoelectrochemical Water Splitting Performance</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 11 August 2021.                          |
| <b>PENG Zehua</b>             | # <u>PENG Zehua</u> , <i>High-Performance Flexible Triboelectric Nanogenerator for Self-Powered Wearable Electronics</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.  |
| <b>SONG Zaixin</b>            | # <u>SONG Zaixin</u> , <i>Advanced High-Power-Density Disc-Type Permanent Magnet Synchronous Machines for Aircraft Electric Propulsion</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 02 August 2021.                             |
| <b>TAN Tian</b>               | # <u>TAN Tian</u> , <i>Enhancement of the Thermal Stability and Electrochemical Performance of Silicon-based Anode Materials in Lithium-ion Batteries</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 13 June 2022.                |
| <b>TANG Yunqi</b>             | # <u>TANG Yunqi</u> , <i>Organic-Inorganic Halide Perovskites for Photocatalytic and Photoelectrochemical Hydrogen Production</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 29 July 2021.  |
| <b>UYANGA Kindness Alfred</b> | # <u>UYANGA Kindness Alfred</u> , <i>Development of Sustainable Hydrogels with Enhanced Hydrolytic and Thermal Stability</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.   |
| <b>WANG Huanhuan</b>          | # <u>WANG Huanhuan</u> , <i>Measurements, Numerical Simulations and Fast Modelling of Urban Winds and Pollutants</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 06 May 2022.  |
| <b>WEN Qingmei</b>            | # <u>WEN Qingmei</u> , <i>Evaluation Study of Distributed Energy System Integrating PV Power, Ground Source Heat Pump, and CCHP</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 11 October 2021.                                   |
| <b>WONG Pak Wai</b>           | # <u>WONG Pak Wai</u> , Best Poster Presentation in MEMDES 2021, Membrane Desalination 2021 (MEMDES2021), 5th International Conference on Desalination using Membrane Technology , 17 November 2021.   |
| <b>WU Han</b>                 | # <u>WU Han</u> , <i>Ab Initio Study of the Doped Graphene for Oxygen Reduction Reaction</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 07 September 2021.  |
| <b>YEO Joonho</b>             | # <u>YEO Joonho</u> , <i>An Integrated Multi-Dimensional Method for Assessing Waste-to-Resource Systems to Promote Resource Circulation</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.                         |
| <b>ZHANG Hongyan</b>          | # <u>ZHANG Hongyan</u> , <i>China's Sustainable Development with Multi-agent Participation: The Case of Environment Governance and Energy Innovation</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 26 July 2021.                 |
| <b>ZHOU Liyuan</b>            | # <u>ZHOU Liyuan</u> , <i>Emissions and secondary formation of air pollutants in urban environments - chemical characteristics using on-line mass spectrometry</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 04 January 2022.    |
| <b>ZHOU You</b>               | # <u>ZHOU You</u> , <i>Characteristics of Total and Active Airborne Bacterial Communities in Mechanically Ventilated Environment at City Scale</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.                     |



## Section A: Publications of PhD Students

|   |   |
|---|---|
| <b>ZHU Yihao</b>  | # <a href="#">ZHU Yihao</a> , <i>Droplet Jumping Physics and Heat Transfer on Nanostructured Biphilic Surfaces</i> , PhD Thesis, School of Energy and Environment, City University of Hong Kong, Hong Kong, PRC, 20 June 2022.  |
| <b>SCHOOL OF LAW</b>  |   |
| <b>Journal publications</b>   |   |
| <b>ADEKOLA Tolulope Anthony</b>   | # <a href="#">XIAO Shanyun</a> , # <a href="#">ADEKOLA Tolulope Anthony</a> , "Investment Robo-advisors: Some Reflections on China's Regulatory Experience", <i>Banking &amp; Finance Law Review</i> , 37(1), December 2021, pp 127-148.  |
| <b>ISLAM Md Rabiul</b>  | # <a href="#">ISLAM Md Rabiul</a> , "Scrapped Academic Freedom to Transgressed Constitutionalism: The Lex CEU in Hungary", <i>Bangladesh Journal of Law</i> , 19(2), December 2021, pp 39-60.   |
| <b>XIANG Yu</b>   | <a href="#">LIN Lauren Yu-Hsin</a> , # <a href="#">XIANG Yu</a> , "The Rise of Non-Profit Organizations in Global Securities Class Actions: A New Hybrid Model in China", <i>Columbia Journal of Transnational Law</i> , 60(2), 02 March 2022, pp 493-559.  |
| <b>XIAO Shanyun</b>   | # <a href="#">XIAO Shanyun</a> , # <a href="#">ADEKOLA Tolulope Anthony</a> , "Investment Robo-advisors: Some Reflections on China's Regulatory Experience", <i>Banking &amp; Finance Law Review</i> , 37(1), December 2021, pp 127-148.<br># <a href="#">XIAO Shanyun</a> , "Crossing the River by Feeling Stones: Exploring China's Effectiveness in Regulating Internet Finance", <i>Science Technology and Law (Chinese-English Version)</i> , (1), 2022, pp 127-139, 148, doi: <a href="https://doi.org/10.19685/j.cnki.cn11-2922/n.2022.01.015">https://doi.org/10.19685/j.cnki.cn11-2922/n.2022.01.015</a> .<br># <a href="#">XIAO Shanyun</a> , "Uterus rental: Regulating surrogacy in China", <i>The Medico-legal journal</i> , 90(1), 14 February 2022, pp 41-44, doi: <a href="https://doi.org/10.1177/00258172211060192">https://doi.org/10.1177/00258172211060192</a> . |
| <b>Conference papers</b>  |   |
| <b>XIANG Yu</b>   | HUANG Yi-hui, <a href="#">LIN Fen</a> , <a href="#">LIN Lauren Yu-Hsin</a> , LEE Jyh-An, SONG Céline Yunya, HE Sylvia Ying, <a href="#">LI Jun</a> , # <a href="#">XIANG Yu</a> , <a href="#">WANG Jianing</a> , # <a href="#">CAI Qinxian</a> , "Towards a Multi-Perspective Model of Responsible Innovation Ecosystem (RIE): Trust-Based Autonomous Vehicles (TAVs)", <i>Quality &amp; Productivity Research Conference 2022</i> , San Francisco, United States, 13-16 June 2022.   |
| <b>Creative and literary works, consulting reports and case studies</b> |   |
| <b>HUO Xiaobin</b>  | # <a href="#">HUO Xiaobin</a> , "薄扶林聞見錄 - Life as HKU JD", <i>薄扶林聞見錄</i> , 26 September 2021.   |
| <b>All other outputs</b>  |   |
| <b>ADEKOLA Tolulope Anthony</b>   | # <a href="#">ADEKOLA Tolulope Anthony</a> , <i>Regional Mechanism under TRIPS Amendment-Exploring a Pooled Pharmaceutical Access Model for Low-Income Countries</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.   |
| <b>CHEN Yingwei</b>   | # <a href="#">CHEN Yingwei</a> , <i>Regulating the Online Review and Rating Mechanisms in E-commerce: Taking Chinese Regulation as an Example</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 23 December 2021.  |
| <b>TUGUSHEV Anton</b>   | # <a href="#">TUGUSHEV Anton</a> , <i>Comparative Study of Special Economic Zones: National Legal Systems and International Perspective</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 12 August 2021.  |
| <b>WANG Yaolin</b>  | # <a href="#">WANG Yaolin</a> , <i>Platform Workers' Legal Status and Challenges to Labor Law-The Case of China's Sharing Economy</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 01 September 2021.   |
| <b>XIAO Shanyun</b>   | # <a href="#">XIAO Shanyun</a> , <i>Does Mixed Ownership Reform Make a Difference? - Empirical Evidence from Chinese Mixed-Ownership Enterprises</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 23 December 2021.   |
| <b>Jockey Club College of Veterinary Medicine and Life Sciences</b>     |   |
| <b>DEPARTMENT OF BIOMEDICAL SCIENCES</b>                                |   |
| <b>Journal publications</b>   |   |
| <b>AI Limei</b>   | GENG Mengxin, # <a href="#">AI Limei</a> , MA Ming, LI Panpan, GUO Lianhong, SHAN Guangzhi, BAI Liping, "A DasA family sugar binding protein Ste2 links nutrient and oxidative stress to exopolysaccharides production in <i>Streptomyces</i> sp. 139", <i>BMC Microbiology</i> , 22(1), 08 March 2022, doi: <a href="https://doi.org/10.1186/s12866-022-02472-7">https://doi.org/10.1186/s12866-022-02472-7</a> .  |

## Section A: Publications of PhD Students

|                                 |   |
|---------------------------------|---|
| <b>AI Liqing</b>                | #HUANG Xin, #LYU Dong, #AI Liqing, CHENG Shuk Han, YAO Xi, "Aggregate Engineering in Supramolecular Polymers via Extensive Non-covalent Networks", <i>Chinese Journal of Polymer Science</i> , 39(10), 23 July 2021, pp 1310-1318, doi: <a href="https://doi.org/10.1007/s10118-021-2608-x">https://doi.org/10.1007/s10118-021-2608-x</a> .   |
|                                 | #LYU Dong, ZHENG Shuang, #CAO Chunyan, #LI Kedi, #AI Liqing, #LI Xin, YANG Zhengbao, XU Zhengtao, YAO Xi, "Defect-enhanced selective ion transport in an ionic nanocomposite for efficient energy harvesting from moisture", <i>Energy &amp; Environmental Science</i> , 15(6), 28 April 2022, pp 2601-2609, doi: <a href="https://doi.org/10.1039/d2ee00432a">https://doi.org/10.1039/d2ee00432a</a> .   |
|                                 | LI Yuhuan, LIU Zhiwei, ZHU Kuan, #AI Liqing, JIA Pan, WU Na, YU Haitao, WANG Jinqiao, YAO Xi, ZHOU Jinming, SONG Yanlin, "Inkjet Printed Physically-Unclonable Structural-Color Anticounterfeiting Labels with Convenient Artificial Intelligence Authentication", <i>Advanced Materials Interfaces</i> , 8(21), 10 October 2021, doi: <a href="https://doi.org/10.1002/admi.202101281">https://doi.org/10.1002/admi.202101281</a> .  |
|                                 | #YI Bo, #AI Liqing, #HOU Changshun, #LYU Dong, #CAO Chunyan, YAO Xi, "Liquid Metal Nanoparticles as a Highly Efficient Photoinitiator to Develop Multifunctional Hydrogel Composites", <i>ACS applied materials &amp; interfaces</i> , 14(25), 14 June 2022, pp 29315-29323, doi: <a href="https://doi.org/10.1021/acsami.2c07507">https://doi.org/10.1021/acsami.2c07507</a> .   |
|                                 | CAO Chunyan, #HUANG Xin, #LYU Dong, #AI Liqing, #CHEN Weilong, #HOU Changshun, #YI Bo, LUO Jingdong, YAO Xi, "Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization", <i>Materials Horizons</i> , 8(12), 08 October 2021, pp 3399-3408, doi: <a href="https://doi.org/10.1039/d1mh00924a">https://doi.org/10.1039/d1mh00924a</a> .   |
|                                 | ZHANG Jianqiang, #WANG Xuejiao, WANG Zhaoyue, PAN Shangfa, #YI Bo, #AI Liqing, GAO Jun, MUGELE Frieder, YAO Xi, "Wetting ridge assisted programmed magnetic actuation of droplets on ferrofluid-infused surface", <i>Nature Communications</i> , 12, 08 December 2021, doi: <a href="https://doi.org/10.1038/s41467-021-27503-1">https://doi.org/10.1038/s41467-021-27503-1</a> .   |
| <b>ASIM Muhammad</b>            | #ASIM Muhammad, HAO Bo, #WARIS Abdul, LIANG Yi-Meng, WANG Xiao-Guang, "Ketamine attenuates the PTSD-like effect via regulation of glutamatergic signaling in the nucleus accumbens of mice", <i>Molecular and Cellular Neurosciences</i> , 120, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.mcn.2022.103723">https://doi.org/10.1016/j.mcn.2022.103723</a> .   |
|                                 | #WARIS Abdul, ALI Asmat, KHAN Atta Ullah, #ASIM Muhammad, ZAMEL Doaa, FATIMA Kinza, RAZIQ Abdur, KHAN Muhammad Ajmal, AKBAR Nazia, BASET Abdul, ABOUREHAB Mohammed A. S., "Applications of Various Types of Nanomaterials for the Treatment of Neurological Disorders", <i>Nanomaterials</i> , 12(13), 22 June 2022, doi: <a href="https://doi.org/10.3390/nano12132140">https://doi.org/10.3390/nano12132140</a> .   |
| <b>AU-YEUNG Allan Sung King</b> | ZOU Heng, #YANG Zihan, CHAN Yuen San, #AU-YEUNG Allan Sung King, ALAM Md Kowsar, #SI Tongxu, XU Tao, YANG M, "Single cell analysis of mechanical properties and EMT-related gene expression profiles in cancer fingers", <i>iScience</i> , 25(3), 12 February 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.103917">https://doi.org/10.1016/j.isci.2022.103917</a> .  |
| <b>CAO Chunyan</b>              | #LYU Dong, ZHENG Shuang, #CAO Chunyan, #LI Kedi, #AI Liqing, #LI Xin, YANG Zhengbao, XU Zhengtao, YAO Xi, "Defect-enhanced selective ion transport in an ionic nanocomposite for efficient energy harvesting from moisture", <i>Energy &amp; Environmental Science</i> , 15(6), 28 April 2022, pp 2601-2609, doi: <a href="https://doi.org/10.1039/d2ee00432a">https://doi.org/10.1039/d2ee00432a</a> .   |
|                                 | #YI Bo, #AI Liqing, #HOU Changshun, #LYU Dong, #CAO Chunyan, YAO Xi, "Liquid Metal Nanoparticles as a Highly Efficient Photoinitiator to Develop Multifunctional Hydrogel Composites", <i>ACS applied materials &amp; interfaces</i> , 14(25), 14 June 2022, pp 29315-29323, doi: <a href="https://doi.org/10.1021/acsami.2c07507">https://doi.org/10.1021/acsami.2c07507</a> .   |
| <b>CHAN Yu Suen</b>             | CHEN Xueping, CHENG Shuk Han, KINOSHITA Masato, DE WITTE Peter A., LIU Jianjun, HINTON David, BRAUNBECK Thomas, COTGREAVE Ian, SCHLENK Daniel, GONG Zhiyuan, EL-NEZAMI Hani, HO Kin Chung, CHAN Kwok Fai, XU Shisan, YIU Pui Ying, ZHANG Huan, WU Desheng, #CHAN Yu Suen, NY Annelii, MAES Jan, "Pre-validation of <i>choriogenin</i> H transgenic medaka eleutheroembryos as a quantitative estrogenic activity test method", <i>Analytical Biochemistry</i> , 629, 21 July 2021, doi: <a href="https://doi.org/10.1016/j.ab.2021.114311">https://doi.org/10.1016/j.ab.2021.114311</a> . |
|                                 | XU Shisan, ZHANG Huan, LI Cun-Zhao, LAI Ping Shan, WANG Guijiang, #CHAN Yu Suen, CHENG Shuk Han, CHEN Xueping, "Cannabidiol promotes fin regeneration and reduces   |

## Section A: Publications of PhD Students

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|---------------------|--|
|                     | apoptosis in zebrafish embryos", <i>Journal of Functional Foods</i> , 86, 24 August 2021, doi: <a href="https://doi.org/10.1016/j.jff.2021.104694">https://doi.org/10.1016/j.jff.2021.104694</a> .   |
| <b>CHEN Cien</b>    | YAN Qiaolin, DUAN Meng, #CHEN Cien, DENG Zhiqing, #WU Mandi, YU Peiyuan, HE Mingliang, ZHU Guangyu, HOUK Kendall N., SUN Jianwei, "Organocatalytic discrimination of non-directing aryl and heteroaryl groups: enantioselective synthesis of bioactive indole-containing triarylmethanes", <i>Chemical Science</i> , 13(19), 13 April 2022, doi: <a href="https://doi.org/10.1039/d2sc00636g">https://doi.org/10.1039/d2sc00636g</a> .   |
| <b>CHEN Huan</b>    | #JAYASINGHE Migara Kavishka, PIRISINU Marco, YANG Yuqi, PENG Boya, PHAM Thach Tuan, YU LEE Chang, TAN Melissa, VU Tien Luyen, DANG Xuan T. T., PHAM Chanh Tin, #CHEN Huan, LEUNG Anskar Y.H., CHO William C., SHI Jiahai, LE Minh T N, "Surface-engineered extracellular vesicles for targeted delivery of therapeutic RNAs and peptides for cancer therapy", <i>Theranostics</i> , 12(7), 11 April 2022, pp 3288-3315, doi: <a href="https://doi.org/10.7150/thno.68667">https://doi.org/10.7150/thno.68667</a> . |
| <b>CHOI Ming Ho</b> | #LIU Guopan, #CHOI Ming Ho, #MA Haiying, GUO Xuejiao, LO Pui Chi, KIM Jinyong, ZHANG Liang, "Bioorthogonal Conjugation-Assisted Purification Method for Profiling Cell Surface Proteome", <i>Analytical Chemistry</i> , 94(3), 12 January 2022, pp 1901–1909, doi: <a href="https://doi.org/10.1021/acs.analchem.1c05187">https://doi.org/10.1021/acs.analchem.1c05187</a> .   |
| <b>DANG Minyan</b>  | CHEN Qiwei, KORD-VARKANEH Hamed, SANTOS Heitor O., GENARIO Rafael, #DANG Minyan, "Higher intakes of dietary caffeine are associated with 25-hydroxyvitamin D deficiency: A cross-sectional study from the NHANES", <i>International Journal for Vitamin and Nutrition Research</i> , 92(2), 20 September 2021, doi: <a href="https://doi.org/10.1024/0300-9831/a000727">https://doi.org/10.1024/0300-9831/a000727</a> .  |
| <b>DING Yiqing</b>  | XIE Yingpeng, #DING Yiqing, SHAO Xiaolong, #YAO Chunyan, #LI Jingwei, #LIU Jingui, DENG Xin, "Pseudomonas syringae senses polyphenols via phosphorelay crosstalk to inhibit virulence", <i>EMBO Reports</i> , 22(12), 28 September 2021, doi: <a href="https://doi.org/10.15252/embr.202152805">https://doi.org/10.15252/embr.202152805</a> .  |
| <b>DOTSE Eunice</b> | #DOTSE Eunice, #LIM King Hoo, #WANG Meijun, WIJANARKO Kevin Julio, CHOW Kwan Ting, "An Immunological Perspective of Circulating Tumor Cells as Diagnostic Biomarkers and Therapeutic Targets", <i>Life</i> , 12(2), 21 February 2022, doi: <a href="https://doi.org/10.3390/life12020323">https://doi.org/10.3390/life12020323</a> .   |
| <b>FANG Wei</b>     | FENG Hemin, SU Junfeng, #FANG Wei, CHEN Xi, HE Jufang, "The entorhinal cortex modulates trace fear memory formation and neuroplasticity in the mouse lateral amygdala via cholecystokinin", <i>eLife</i> , 10, 15 November 2021, doi: <a href="https://doi.org/10.7554/eLife.69333">https://doi.org/10.7554/eLife.69333</a> .  |
| <b>FU Xianzhong</b> | #FU Xianzhong, WU Jie, CUI Shuo, WANG Xuemeng, LIU Houqi, HE Ruli, YANG Cheng, DENG Xin, TAN Zhouliang, LI Wen-Wei, "Self-regenerable bio-hybrid with biogenic ferrous sulfide nanoparticles for treating high-concentration chromium-containing wastewater", <i>Water Research</i> , 206, 02 October 2021, pp 117731, doi: <a href="https://doi.org/10.1016/j.watres.2021.117731">https://doi.org/10.1016/j.watres.2021.117731</a> .  |
| <b>GONG Jinhua</b>  | LI Fei, SHI Zhe, ZHAO Bingqing, #GONG Jinhua, SUN Long, HU Tongxin, "The Effects of Fire Disturbance on Litter Decomposition and C:N:P Stoichiometry in a <i>Larix gmelinii</i> Forest Ecosystem of Boreal China", <i>Forests</i> , 13(7), 30 June 2022, doi: <a href="https://doi.org/10.3390/f13071029">https://doi.org/10.3390/f13071029</a> .  |
|                     | WEI Likun, WANG Meiniang, XIANG Haitao, #JIANG Yuan, #GONG Jinhua, #SU Dan, AL AZAD Muha Ajjur Rahman, DONG Hongming, FENG Limin, WU Jiajun, CHAN Lai Leo, YANG Naibo, SHI Jiahai, "Bamboo Shark as a Small Animal Model for Single Domain Antibody Production", <i>Frontiers in Bioengineering and Biotechnology</i> , 9, 08 December 2021, doi: <a href="https://doi.org/10.3389/fbioe.2021.792111">https://doi.org/10.3389/fbioe.2021.792111</a> .  |
|                     | ZHAO Guiling, LIU Chang, QIU Zhaowen, DENG Zongji, #GONG Jinhua, "3D Morphology of Internal Defects in Wooden Products Based on Computed Tomography", <i>BioResources</i> , 16(3), 2021, pp 6267-6280, doi: <a href="https://doi.org/10.15376/BIORES.16.3.6267-6280">https://doi.org/10.15376/BIORES.16.3.6267-6280</a> .  |
|                     | ZHOU Jiao, #GONG Jinhua, CHAI Yangyang, LI Dehai, ZHOU Cong, SUN Changyan, REGENSTEIN Joe M., "Structural analysis and <i>in vitro</i> antitumor effect of polysaccharides from <i>Pholiota adiposa</i> ", <i>Glycoconjugate Journal</i> , 08 June 2022, doi: <a href="https://doi.org/10.1007/s10719-022-10065-9">https://doi.org/10.1007/s10719-022-10065-9</a> .  |

## Section A: Publications of PhD Students

|                        |   |
|------------------------|---|
| <b>GUNAWAN Renardi</b> | # <a href="#">GUNAWAN Renardi</a> , # <a href="#">IMRAN Al</a> , # <a href="#">AHMED Irfan</a> , # <a href="#">LIU Yuanchao</a> , CHU Yanwu, GUO Lianbo, <a href="#">YANG M</a> , <a href="#">LAU Condon</a> , "FROZEN! Intracellular multi-electrolyte analysis measures millimolar lithium in mammalian cells", <i>Analyst</i> , 146(16), 02 July 2021, pp 5186–5197, doi: <a href="https://doi.org/10.1039/D1AN00806D">https://doi.org/10.1039/D1AN00806D</a> .  |
| <b>HE Lingli</b>       | # <a href="#">QI Lin</a> , <a href="#">WANG Wei</a> , # <a href="#">WU Tan</a> , # <a href="#">ZHU Lina</a> , # <a href="#">HE Lingli</a> , <a href="#">WANG Xin</a> , "Multi-Omics Data Fusion for Cancer Molecular Subtyping Using Sparse Canonical Correlation Analysis", <i>Frontiers in Genetics</i> , 12, 22 July 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.607817">https://doi.org/10.3389/fgene.2021.607817</a> .  |
| <b>HE Qian</b>         | # <a href="#">HE Qian</a> , # <a href="#">BENNETT Adam Neil</a> , FAN Beifang, HAN Xue, # <a href="#">LIU Jundong</a> , <a href="#">WU Chun Hei</a> , # <a href="#">HUANG Ruixuan</a> , CHAN Juliana Chung Ngor, <a href="#">CHAN Kei Hang Katie</a> , "Assessment of Bidirectional Relationships between Leisure Sedentary Behaviors and Neuropsychiatric Disorders: A Two-Sample Mendelian Randomization Study", <i>Genes</i> , 13(6), 27 May 2022, doi: <a href="https://doi.org/10.3390/genes13060962">https://doi.org/10.3390/genes13060962</a> .  |
|                        | # <a href="#">LIU Zhe</a> , LIU Xudong, LIU Fang, ZHAO Hui, ZHANG Yu, WANG Yafan, MA Ying, # <a href="#">WANG Fuzhou</a> , # <a href="#">ZHANG Weitong</a> , # <a href="#">PETINRIN Olutomilayo Olayemi</a> , # <a href="#">YAO Zhongyu</a> , # <a href="#">LIANG Jingbo</a> , # <a href="#">HE Qian</a> , FENG Dayun, WANG Lei, <a href="#">WONG Ka Chun</a> , "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i> , 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a> .  |
| <b>HE Qingling</b>     | <a href="#">HU Jianyang</a> , <a href="#">LAI Yuni</a> , # <a href="#">HUANG Hao</a> , <a href="#">RAMAKRISHNAN Saravanan</a> , # <a href="#">PAN Yilin</a> , MA Victor W.S., CHEUK Wah, SO Grace Y. K., # <a href="#">HE Qingling</a> , <a href="#">LAU Chun Yue Geoffrey</a> , <a href="#">ZHANG Liang</a> , CHO William C.S., <a href="#">CHAN Kui Ming</a> , <a href="#">WANG Xin</a> , <a href="#">CHIN Rebecca Y M</a> , "TCOF1 upregulation in triple-negative breast cancer promotes stemness and tumour growth and correlates with poor prognosis", <i>British Journal of Cancer</i> , 126(1), 30 October 2021, pp 57-71, doi: <a href="https://doi.org/10.1038/s41416-021-01596-3">https://doi.org/10.1038/s41416-021-01596-3</a> . |
| <b>HOSSAIN Md Pear</b> | # <a href="#">HOSSAIN Md Pear</a> , RIAZ Muhammad, "On Designing a New VEWMA Control Chart for Efficient Process Monitoring", <i>Computers and Industrial Engineering</i> , 162, 18 October 2021, doi: <a href="https://doi.org/10.1016/j.cie.2021.107751">https://doi.org/10.1016/j.cie.2021.107751</a> .  |
|                        | # <a href="#">HOSSAIN Md Pear</a> , ZHOU Wen, REN Chao, MARSHALL and John, <a href="#">YUAN Hsiang-Yu Sean</a> , "Prediction of dengue annual incidence using seasonal climate variability in Bangladesh between 2000 and 2018", <i>PLOS Global Public Health</i> , 2(5), 09 May 2022, doi: <a href="https://doi.org/10.1371/journal.pgph.0000047">https://doi.org/10.1371/journal.pgph.0000047</a> .   |
|                        | <a href="#">YUAN Hsiang-Yu Sean</a> , # <a href="#">HOSSAIN Md Pear</a> , WEN Tzai-Hung, WANG Ming-Jiuh, "Assessment of the fatality rate and transmissibility taking account of undetected cases during an unprecedented COVID-19 surge in Taiwan", <i>BMC Infectious Diseases</i> , 22, 20 March 2022, doi: <a href="https://doi.org/10.1186/s12879-022-07190-z">https://doi.org/10.1186/s12879-022-07190-z</a> .   |
|                        | ALAM Md Nur, MONI Mohammad Ali, YU Jun Q., BEALE Philip, TURNER Peter, PROSCHOGO Nick, RAHMAN Mohammad Azizur, # <a href="#">HOSSAIN Md Pear</a> , HUQ Fazlul, "Promising Anticancer Activity of [Bis(1,8-quinolato)palladium (II)] Alone and in Combination", <i>International Journal of Molecular Sciences</i> , 22(16), 06 August 2021, doi: <a href="https://doi.org/10.3390/ijms22168471">https://doi.org/10.3390/ijms22168471</a> .  |
| <b>HUANG Xin</b>       | # <a href="#">HUANG Xin</a> , # <a href="#">LYU Dong</a> , # <a href="#">AI Liqing</a> , <a href="#">CHENG Shuk Han</a> , <a href="#">YAO Xi</a> , "Aggregate Engineering in Supramolecular Polymers via Extensive Non-covalent Networks", <i>Chinese Journal of Polymer Science</i> , 39(10), 23 July 2021, pp 1310-1318, doi: <a href="https://doi.org/10.1007/s10118-021-2608-x">https://doi.org/10.1007/s10118-021-2608-x</a> .   |
|                        | <a href="#">CAO Chunyan</a> , # <a href="#">HUANG Xin</a> , # <a href="#">LYU Dong</a> , # <a href="#">AI Liqing</a> , # <a href="#">CHEN Weilong</a> , # <a href="#">HOU Changshun</a> , # <a href="#">YI Bo</a> , <a href="#">LUO Jingdong</a> , <a href="#">YAO Xi</a> , "Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization", <i>Materials Horizons</i> , 8(12), 08 October 2021, pp 3399-3408, doi: <a href="https://doi.org/10.1039/d1mh00924a">https://doi.org/10.1039/d1mh00924a</a> .  |
| <b>JIANG Yuan</b>      | <a href="#">WEI Likun</a> , <a href="#">WANG Meiniang</a> , XIANG Haitao, # <a href="#">JIANG Yuan</a> , # <a href="#">GONG Jinhua</a> , # <a href="#">SU Dan</a> , <a href="#">AL AZAD Muha Ajijur Rahman</a> , DONG Hongming, FENG Limin, <a href="#">WU Jiajun</a> , <a href="#">CHAN Lai Leo</a> , <a href="#">YANG Naibo</a> , <a href="#">SHI Jiahai</a> , "Bamboo Shark as a Small Animal Model for Single Domain Antibody Production", <i>Frontiers in Bioengineering and Biotechnology</i> , 9, 08 December 2021, doi: <a href="https://doi.org/10.3389/fbioe.2021.792111">https://doi.org/10.3389/fbioe.2021.792111</a> .   |
| <b>LEE Wai Hin</b>     | <a href="#">WU Zhen</a> , # <a href="#">LEE Wai Hin</a> , LIU Zijian, LIN Senjie, LAM Kwan Sing Paul, "Microbiome Associated With <i>Gambierdiscus balechii</i> Cultures Under Different Toxicity Conditions", <i>Frontiers in Marine Science</i> , 9, 09 February 2022, doi: <a href="https://doi.org/10.3389/fmars.2022.760553">https://doi.org/10.3389/fmars.2022.760553</a> .   |

Section A: Publications of PhD Students

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|--------------------|---|
|                    | <p>XU Yixiao, HE Xilin, #<a href="#">LEE Wai Hin</a>, <a href="#">CHAN Lai Leo</a>, LU Douding, WANG Pengbin, TAO Xiaoping, LI Huiling, YU Kefu, "Ciguatoxin-Producing Dinoflagellate <i>Gambierdiscus</i> in the Beibu Gulf: First Report of Toxic <i>Gambierdiscus</i> in Chinese Waters", <i>Toxins</i>, 13(9), 10 September 2021, doi: <a href="https://doi.org/10.3390/toxins13090643">https://doi.org/10.3390/toxins13090643</a>.</p> <p>#<a href="#">ZHU Jingyi</a>, #<a href="#">LEE Wai Hin</a>, <a href="#">WU Jiajun</a>, #<a href="#">ZHOU Shiwen</a>, #<a href="#">YIP Ki Chun</a>, #<a href="#">LIU Xiaowan</a>, KIRATA Taratau, <a href="#">CHAN Lai Leo</a>, "The Occurrence, Distribution, and Toxicity of High-Risk Ciguatera Fish Species (Grouper and Snapper) in Kiritimati Island and Marakei Island of the Republic of Kiribati", <i>Toxins</i>, 14(3), 15 March 2022, doi: <a href="https://doi.org/10.3390/toxins14030208">https://doi.org/10.3390/toxins14030208</a>.</p>   |
| <b>LEI Zhuogui</b> | <p>#<a href="#">LEI Zhuogui</a>, <a href="#">XIE Li</a>, LI Cheuk Hin, LAM Yuk Yan, <a href="#">RAMKRISHNAN Aruna Surendran</a>, <a href="#">FU Zhongqi</a>, ZENG Xianlin, #<a href="#">LIU Shu</a>, <a href="#">IQBAL Zafar</a>, <a href="#">LI Ying</a>, "Chemogenetic Activation of Astrocytes in the Basolateral Amygdala Contributes to Fear Memory Formation by Modulating the Amygdala-Prefrontal Cortex Communication", <i>International Journal of Molecular Sciences</i>, 23(11), 29 May 2022, doi: <a href="https://doi.org/10.3390/ijms23116092">https://doi.org/10.3390/ijms23116092</a>.</p> <p>MONTARDY Quentin, ZHOU Zheng, LI Lei, YANG Qingning, #<a href="#">LEI Zhuogui</a>, FENG Xiaolong, CHEN Shanping, SHI Qianqian, ZHANG Huiqi, CHEN Shuran, ZHANG Zhijian, ZHAO Binghao, XU Fuqiang, LU Zhonghua, WANG Liping, "Dopamine modulates visual threat processing in the superior colliculus via D2 receptors", <i>iScience</i>, 25(6), 11 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104388">https://doi.org/10.1016/j.isci.2022.104388</a>.</p> <p><a href="#">MURUGAPPAN Suresh Kanna</a>, <a href="#">SHAHED Mahadi Hasan Md Abu</a>, #<a href="#">LEI Zhuogui</a>, <a href="#">IQBAL Zafar</a>, <a href="#">RAMKRISHNAN Aruna Surendran</a>, <a href="#">WONG Heung Yan</a>, <a href="#">LI Ying</a>, "Trigeminal neuropathy causes hypomyelination in the anterior cingulate cortex, disrupts the synchrony of neural circuitry, and impairs decision-making in male rats", <i>Journal of Neuroscience Research</i>, 99(10), 29 July 2021, pp 2721-2742, doi: <a href="https://doi.org/10.1002/jnr.24903">https://doi.org/10.1002/jnr.24903</a>.</p> <p><a href="#">MURUGAPPAN Suresh Kanna</a>, <a href="#">XIE Li</a>, <a href="#">WONG Heung Yan</a>, <a href="#">IQBAL Zafar</a>, #<a href="#">LEI Zhuogui</a>, <a href="#">RAMKRISHNAN Aruna Surendran</a>, <a href="#">LI Ying</a>, "Suppression of pain in the late phase of chronic trigeminal neuropathic pain failed to rescue the decision-making deficits in rats", <i>International Journal of Molecular Sciences</i>, 22(15), 22 July 2021, doi: <a href="https://doi.org/10.3390/ijms22157846">https://doi.org/10.3390/ijms22157846</a>.</p> <p>#<a href="#">LEI Zhuogui</a>, LAM Yukyan, LI Cheukhin, <a href="#">FU Zhongqi</a>, <a href="#">RAMKRISHNAN Aruna Surendran</a>, #<a href="#">LIU Shu</a>, <a href="#">LI Ying</a>, "<math>\beta</math>2-Adrenoceptors in the Medial Prefrontal Cortex Excitatory Neurons Regulate Anxiety-like Behavior in Mice", <i>International Journal of Molecular Sciences</i>, 23(10), 17 May 2022, doi: <a href="https://doi.org/10.3390/ijms23105578">https://doi.org/10.3390/ijms23105578</a>.</p> |
| <b>LI Jingwei</b>  | <p>#<a href="#">YAO Chunyan</a>, <a href="#">SHAO Xiaolong</a>, #<a href="#">LI Jingwei</a>, <a href="#">DENG Xin</a>, "Optimized protocols for ChIP-seq and deletion mutant construction in <i>Pseudomonas syringae</i>", <i>STAR Protocols</i>, 2(3), 17 September 2021, doi: <a href="https://doi.org/10.1016/j.xpro.2021.100776">https://doi.org/10.1016/j.xpro.2021.100776</a>.</p> <p><a href="#">XIE Yingpeng</a>, #<a href="#">DING Yiqing</a>, <a href="#">SHAO Xiaolong</a>, #<a href="#">YAO Chunyan</a>, #<a href="#">LI Jingwei</a>, #<a href="#">LIU Jingui</a>, <a href="#">DENG Xin</a>, "<i>Pseudomonas syringae</i> senses polyphenols via phosphorelay crosstalk to inhibit virulence", <i>EMBO Reports</i>, 22(12), 28 September 2021, doi: <a href="https://doi.org/10.15252/embr.202152805">https://doi.org/10.15252/embr.202152805</a>.</p>  |
| <b>LI Tianmin</b>  | <p>POUDEL Sabin, #<a href="#">LI Tianmin</a>, CHEN Saijuan, ZHANG Xue, CHENG Wen-Hsing, SUKUMARAN Anuraj T., KIESS Aaron S., ZHANG Li, "Prevalence, Antimicrobial Resistance, and Molecular Characterization of <i>Campylobacter</i> Isolated from Broilers and Broiler Meat Raised without Antibiotics", <i>Microbiology Spectrum</i>, 10 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.00251-22">https://doi.org/10.1128/spectrum.00251-22</a>.</p>  |
| <b>LI Wing Kar</b> | <p>QU Xinyu, LEUNG Thomas C. N., NGAI Sai-Ming, TSAI Sau-Na, <a href="#">THAKUR Abhimanyu</a>, #<a href="#">LI Wing Kar</a>, <a href="#">LEE Youngjin</a>, LEUNG Leanne, NG Tung-Him, YAM Judy, LAN Linlin, LAU Eric H. L., WONG Eddy W. Y., CHAN Jason Y. K., MEEHAN Katie, "Proteomic Analysis of Circulating Extracellular Vesicles Identifies Potential Biomarkers for Lymph Node Metastasis in Oral Tongue Squamous Cell Carcinoma", <i>Cells</i>, 10(9), 24 August 2021, doi: <a href="https://doi.org/10.3390/cells10092179">https://doi.org/10.3390/cells10092179</a>.</p> <p><a href="#">THAKUR Abhimanyu</a>, XU Chen, #<a href="#">LI Wing Kar</a>, <a href="#">QIU Guangyu</a>, #<a href="#">HE Bing</a>, NG Siu Pang, <a href="#">WU Lawrence</a>, <a href="#">LEE Youngjin</a>, "In vivo liquid biopsy for glioblastoma malignancy by the AFM and LSPR based sensing of exosomal CD44 and CD133 in a mouse model", <i>Biosensors and Bioelectronics</i>, 191, 02 July 2021, doi: <a href="https://doi.org/10.1016/j.bios.2021.113476">https://doi.org/10.1016/j.bios.2021.113476</a>.</p>   |

## Section A: Publications of PhD Students

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|                     | # <u>LIU Linlin</u> , <u>THAKUR Abhimanyu</u> , # <u>LI Wing Kar</u> , <u>QIU Guangyu</u> , # <u>YANG Tian</u> , # <u>HE Bing</u> , <u>LEE Youngjin</u> , <u>WU Lawrence</u> , "Site specific biotinylated antibody functionalized Ag@AuNIs LSPR biosensor for the ultrasensitive detection of exosomal MCT4, a glioblastoma progression biomarker", <i>Chemical Engineering Journal</i> , 446(Part 4), 06 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137383">https://doi.org/10.1016/j.cej.2022.137383</a> .   |
| <b>LI Xin</b>       | # <u>LYU Dong</u> , <u>ZHENG Shuang</u> , # <u>CAO Chunyan</u> , # <u>LI Kedi</u> , # <u>AI Liqing</u> , # <u>LI Xin</u> , <u>YANG Zhengbao</u> , <u>XU Zhengtao</u> , <u>YAO Xi</u> , "Defect-enhanced selective ion transport in an ionic nanocomposite for efficient energy harvesting from moisture", <i>Energy &amp; Environmental Science</i> , 15(6), 28 April 2022, pp 2601-2609, doi: <a href="https://doi.org/10.1039/d2ee00432a">https://doi.org/10.1039/d2ee00432a</a> .   |
| <b>LI Yichen</b>    | # <u>LI Yichen</u> , <u>ZHANG Qian</u> , # <u>WU Mandi</u> , <u>ZHANG Peidong</u> , <u>HUANG Liang</u> , <u>AI Xiaolin</u> , <u>YANG Zhennan</u> , <u>SHEN Qihong</u> , # <u>WANG Yiran</u> , <u>WANG Ping</u> , <u>ZHOU Shengtao</u> , <u>HE Mingliang</u> , "Suppressing MDSC Infiltration in Tumor Microenvironment Serves as an Option for Treating Ovarian Cancer Metastasis", <i>International Journal of Biological Sciences</i> , 18(9), 21 May 2022, pp 3697-3713, doi: <a href="https://doi.org/10.7150/ijbs.70013">https://doi.org/10.7150/ijbs.70013</a> .   |
|                     | # <u>WANG Yiran</u> , # <u>WU Mandi</u> , # <u>LI Yichen</u> , <u>YUEN Ho Him</u> , <u>HE Mingliang</u> , "The effects of SARS-CoV-2 infection on modulating innate immunity and strategies of combating inflammatory response for COVID-19 therapy", <i>Journal of Biomedical Science</i> , 29, 03 May 2022, doi: <a href="https://doi.org/10.1186/s12929-022-00811-4">https://doi.org/10.1186/s12929-022-00811-4</a> .   |
|                     | <u>LI Zhiyang</u> , # <u>LI Yichen</u> , <u>LI Xingguang</u> , # <u>WU Mandi</u> , <u>HE Mingliang</u> , <u>SUN Jianwei</u> , "Organocatalytic asymmetric formal oxidative coupling for the construction of all-aryl quaternary stereocenters", <i>Chemical Science</i> , 12(35), 29 July 2021, pp 11793-11798, doi: <a href="https://doi.org/10.1039/d1sc03324g">https://doi.org/10.1039/d1sc03324g</a> .   |
| <b>LIANG Jingbo</b> | # <u>LIANG Jingbo</u> , <u>YUAN Hsiang-Yu Sean</u> , <u>LI Kin Kit</u> , <u>WEI Wan In</u> , <u>WONG Samuel Yeung-Shan</u> , <u>TANG Arthur</u> , <u>RILEY Steven</u> , <u>KWOK Kin On</u> , "Path to normality: Assessing the level of social-distancing measures relaxation against antibody-resistant SARS-CoV-2 variants in a partially-vaccinated population", <i>Computational and Structural Biotechnology Journal</i> , 20, 2022, pp 4052-4059, doi: <a href="https://doi.org/10.1016/j.csbj.2022.07.048">https://doi.org/10.1016/j.csbj.2022.07.048</a> .   |
|                     | # <u>LIU Zhe</u> , <u>LIU Xudong</u> , <u>LIU Fang</u> , <u>ZHAO Hui</u> , <u>ZHANG Yu</u> , <u>WANG Yafan</u> , <u>MA Ying</u> , # <u>WANG Fuzhou</u> , # <u>ZHANG Weitong</u> , # <u>PETINRIN Olutomilayo Olayemi</u> , # <u>YAO Zhongyu</u> , # <u>LIANG Jingbo</u> , # <u>HE Qian</u> , <u>FENG Dayun</u> , <u>WANG Lei</u> , <u>WONG Ka Chun</u> , "The comprehensive and systematic identification of BLCA-specific SF-regulated, survival-related AS events", <i>Gene</i> , 835, 13 June 2022, doi: <a href="https://doi.org/10.1016/j.gene.2022.146657">https://doi.org/10.1016/j.gene.2022.146657</a> . |
|                     | # <u>LIANG Jingbo</u> , <u>YUAN Hsiang-Yu Sean</u> , "Assessing the impact of temperature and humidity exposures during early infection stages on case-fatality of COVID-19: A modelling study in Europe", <i>Environmental Research</i> , 211, 22 February 2022, doi: <a href="https://doi.org/10.1016/j.envres.2022.112931">https://doi.org/10.1016/j.envres.2022.112931</a> .   |
| <b>LIANG Ye</b>     | <u>SUN Wenjian</u> , <u>TANG Peng</u> , # <u>LIANG Ye</u> , # <u>LI Jing</u> , <u>FENG Jingyu</u> , <u>ZHANG Nan</u> , <u>LU Danyi</u> , <u>HE Jufang</u> , <u>CHEN Xi</u> , "The anterior cingulate cortex directly enhances auditory cortical responses in air-puffing-facilitated flight behavior", <i>Cell Reports</i> , 38(10), 08 March 2022, doi: <a href="https://doi.org/10.1016/j.celrep.2022.110506">https://doi.org/10.1016/j.celrep.2022.110506</a> .   |
| <b>LIM King Hoo</b> | # <u>DOTSE Eunice</u> , # <u>LIM King Hoo</u> , # <u>WANG Meijun</u> , <u>WIJANARKO Kevin Julio</u> , <u>CHOW Kwan Ting</u> , "An Immunological Perspective of Circulating Tumor Cells as Diagnostic Biomarkers and Therapeutic Targets", <i>Life</i> , 12(2), 21 February 2022, doi: <a href="https://doi.org/10.3390/life12020323">https://doi.org/10.3390/life12020323</a> .  |
| <b>LIU Guopan</b>   | <u>YANG Liu</u> , # <u>LIU Guopan</u> , # <u>CHEN Qingxin</u> , # <u>WAN Yingpeng</u> , # <u>LIU Zhiyang</u> , # <u>ZHANG Jie</u> , # <u>HUANG Chen</u> , <u>XU Zhiqiang</u> , <u>LI Shengliang</u> , <u>LEE Chun Sing</u> , <u>ZHANG Liang</u> , <u>SUN Hongyan</u> , "An Activatable NIR Probe for the Detection and Elimination of Senescent Cells", <i>Analytical Chemistry</i> , 94(13), 23 March 2022, pp 5425–5431, doi: <a href="https://doi.org/10.1021/acs.analchem.2c00239">https://doi.org/10.1021/acs.analchem.2c00239</a> .  |
|                     | # <u>LIU Guopan</u> , # <u>CHOI Ming Ho</u> , # <u>MA Haiying</u> , <u>GUO Xuejiao</u> , <u>LO Pui Chi</u> , <u>KIM Jinyong</u> , <u>ZHANG Liang</u> , "Bioorthogonal Conjugation-Assisted Purification Method for Profiling Cell Surface Proteome", <i>Analytical Chemistry</i> , 94(3), 12 January 2022, pp 1901–1909, doi: <a href="https://doi.org/10.1021/acs.analchem.1c05187">https://doi.org/10.1021/acs.analchem.1c05187</a> .  |
| <b>LIU Jingui</b>   | <u>XIE Yingpeng</u> , # <u>DING Yiqing</u> , <u>SHAO Xiaolong</u> , # <u>YAO Chunyan</u> , # <u>LI Jingwei</u> , # <u>LIU Jingui</u> , <u>DENG Xin</u> , " <i>Pseudomonas syringae</i> senses polyphenols via phosphorelay crosstalk to  |

Section A: Publications of PhD Students

|                    |   |
|--------------------|---|
|                    | inhibit virulence", <i>EMBO Reports</i> , 22(12), 28 September 2021, doi: <a href="https://doi.org/10.15252/embr.202152805">https://doi.org/10.15252/embr.202152805</a> .   |
| <b>LIU Jundong</b> | # <a href="#">HE Qian</a> , # <a href="#">BENNETT Adam Neil</a> , FAN Beifang, HAN Xue, # <a href="#">LIU Jundong</a> , <a href="#">WU Chun Hei</a> , # <a href="#">HUANG Ruixuan</a> , CHAN Juliana Chung Ngor, <a href="#">CHAN Kei Hang Katie</a> , "Assessment of Bidirectional Relationships between Leisure Sedentary Behaviors and Neuropsychiatric Disorders: A Two-Sample Mendelian Randomization Study", <i>Genes</i> , 13(6), 27 May 2022, doi: <a href="https://doi.org/10.3390/genes13060962">https://doi.org/10.3390/genes13060962</a> .  |
|                    | # <a href="#">WAN Tsz Kin</a> , # <a href="#">HUANG Ruixuan</a> , <a href="#">TULU Thomas Wetere</a> , # <a href="#">LIU Jundong</a> , <a href="#">VODENCAREVIC Asmir</a> , <a href="#">WONG Chi-Wah</a> , <a href="#">CHAN Kei Hang Katie</a> , "Identifying Predictors of COVID-19 Mortality Using Machine Learning", <i>Life</i> , 12(4), 06 April 2022, doi: <a href="https://doi.org/10.3390/life12040547">https://doi.org/10.3390/life12040547</a> .  |
|                    | # <a href="#">SHENG Jie</a> , # <a href="#">LIU Jundong</a> , <a href="#">CHAN Kei Hang Katie</a> , "Evaluating the Causal Effects of Gestational Diabetes Mellitus, Heart Disease, and High Body Mass Index on Maternal Alzheimer's Disease and Dementia: Multivariable Mendelian Randomization", <i>Frontiers in Genetics</i> , 13, 21 June 2022, doi: <a href="https://doi.org/10.3389/fgene.2022.833734">https://doi.org/10.3389/fgene.2022.833734</a> .  |
| <b>LIU Shu</b>     | # <a href="#">LEI Zhuogui</a> , <a href="#">XIE Li</a> , <a href="#">LI Cheuk Hin</a> , <a href="#">LAM Yuk Yan</a> , <a href="#">RAMKRISHNAN Aruna Surendran</a> , <a href="#">FU Zhongqi</a> , <a href="#">ZENG Xianlin</a> , # <a href="#">LIU Shu</a> , <a href="#">IQBAL Zafar</a> , <a href="#">LI Ying</a> , "Chemogenetic Activation of Astrocytes in the Basolateral Amygdala Contributes to Fear Memory Formation by Modulating the Amygdala-Prefrontal Cortex Communication", <i>International Journal of Molecular Sciences</i> , 23(11), 29 May 2022, doi: <a href="https://doi.org/10.3390/ijms23116092">https://doi.org/10.3390/ijms23116092</a> . |
|                    | # <a href="#">LIU Shu</a> , <a href="#">CHENG Yue</a> , <a href="#">CHEN Wei-Zhe</a> , <a href="#">LV Jin-Xiao</a> , <a href="#">ZHENG Bei-Shi</a> , <a href="#">HUANG Dong-Dong</a> , <a href="#">XIA Xu-Fen</a> , <a href="#">YU Zhen</a> , "Inflammation Disturbed the Tryptophan Catabolites in Hippocampus of Post-operative Fatigue Syndrome Rats via Indoleamine 2,3-Dioxygenase Enzyme and the Improvement Effect of Ginsenoside Rb1", <i>Frontiers in Neuroscience</i> , 15, 26 August 2021, doi: <a href="https://doi.org/10.3389/fnins.2021.652817">https://doi.org/10.3389/fnins.2021.652817</a> .  |
|                    | # <a href="#">LEI Zhuogui</a> , <a href="#">LAM Yukyan</a> , <a href="#">LI Cheukhin</a> , <a href="#">FU Zhongqi</a> , <a href="#">RAMKRISHNAN Aruna Surendran</a> , # <a href="#">LIU Shu</a> , <a href="#">LI Ying</a> , "β2-Adrenoceptors in the Medial Prefrontal Cortex Excitatory Neurons Regulate Anxiety-like Behavior in Mice", <i>International Journal of Molecular Sciences</i> , 23(10), 17 May 2022, doi: <a href="https://doi.org/10.3390/ijms23105578">https://doi.org/10.3390/ijms23105578</a> .  |
| <b>LIU Wenhao</b>  | <a href="#">CAI Xue</a> , <a href="#">LI Lizhu</a> , # <a href="#">LIU Wenhao</a> , <a href="#">DU Nianzhen</a> , <a href="#">ZHAO Yu</a> , <a href="#">HAN Yaning</a> , <a href="#">LIU Changbo</a> , <a href="#">YIN Yan</a> , <a href="#">FU Xin</a> , <a href="#">SHENG Dawid</a> , <a href="#">YIN Lan</a> , <a href="#">WANG Liping</a> , <a href="#">WEI Pengfei</a> , <a href="#">SHENG Xing</a> , "A dual-channel optogenetic stimulator selectively modulates distinct defensive behaviors", <i>iScience</i> , 25(1), 24 December 2021, doi: <a href="https://doi.org/10.1016/j.isci.2021.103681">https://doi.org/10.1016/j.isci.2021.103681</a> .      |
| <b>LIU Xiaowan</b> | <a href="#">ZHAO Wei</a> , <a href="#">JIANG Hong</a> , # <a href="#">LIU Xiaowan</a> , <a href="#">ZHOU Jian</a> , <a href="#">WU Bin</a> , "Polyene Macrolactams from Marine and Terrestrial Sources: Structure, Production Strategies, Biosynthesis and Bioactivities", <i>Marine Drugs</i> , 20(6), 01 June 2022, doi: <a href="https://doi.org/10.3390/md20060360">https://doi.org/10.3390/md20060360</a> .  |
|                    | <a href="#">LI Xuanyi</a> , <a href="#">GE Yichao</a> , <a href="#">MA Yihan</a> , <a href="#">WANG Shoubao</a> , <a href="#">LI Sihui</a> , <a href="#">YIN Qizhao</a> , # <a href="#">LIU Xiaowan</a> , <a href="#">WIE Jihua</a> , <a href="#">WU Xiaodan</a> , <a href="#">WU Bin</a> , "New Cytotoxic Secondary Metabolites from Two Deep-Sea-Derived Fungi and the Co-Culture Impact on the Secondary Metabolic Patterns", <i>Chemistry and Biodiversity</i> , 19(4), 28 February 2022, doi: <a href="https://doi.org/10.1002/cbdv.202200055">https://doi.org/10.1002/cbdv.202200055</a> .  |
|                    | # <a href="#">ZHU Jingyi</a> , # <a href="#">LEE Wai Hin</a> , <a href="#">WU Jiajun</a> , # <a href="#">ZHOU Shiwen</a> , # <a href="#">YIP Ki Chun</a> , # <a href="#">LIU Xiaowan</a> , <a href="#">KIRATA Taratau</a> , <a href="#">CHAN Lai Leo</a> , "The Occurrence, Distribution, and Toxicity of High-Risk Ciguatera Fish Species (Grouper and Snapper) in Kiritimati Island and Marakei Island of the Republic of Kiribati", <i>Toxins</i> , 14(3), 15 March 2022, doi: <a href="https://doi.org/10.3390/toxins14030208">https://doi.org/10.3390/toxins14030208</a> .   |
| <b>LU Gang</b>     | <a href="#">ZHENG Shuang</a> , <a href="#">TANG Jiayue</a> , # <a href="#">LYU Dong</a> , <a href="#">WANG Mi</a> , <a href="#">YANG Xuan</a> , # <a href="#">HOU Changshun</a> , # <a href="#">YI Bo</a> , # <a href="#">LU Gang</a> , <a href="#">HAO Ruiran</a> , <a href="#">WANG Mingzhan</a> , <a href="#">WANG Yanlei</a> , <a href="#">HE Hongyan</a> , <a href="#">YAO Xi</a> , "Continuous Energy Harvesting from Ubiquitous Humidity Gradients using Liquid-Infused Nanofluidics", <i>Advanced Materials</i> , 34(4), 29 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106410">https://doi.org/10.1002/adma.202106410</a> .              |
| <b>LU Qingqing</b> | # <a href="#">LU Qingqing</a> , <a href="#">KIM Jin Young</a> , "Mammalian circadian networks mediated by the suprachiasmatic nucleus", <i>FEBS Journal</i> , 16 October 2021, doi: <a href="https://doi.org/10.1111/febs.16233">https://doi.org/10.1111/febs.16233</a> .   |

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|                    |  |
|--------------------|--|
| <b>LYU Dong</b>    | <p>WANG Yanqing, XU Rui, XIAO Bowen, #LYU Dong, PENG Yu, ZHENG Yun, SHEN Yangchuan, CHAI Jingchao, LEI Xiaohua, LUO Shiyu, WANG Xinyi, LIANG Xinmiao, FENG Jiwen, LIU Zhihong, "A poly(1,3-dioxolane) based deep-eutectic polymer electrolyte for high performance ambient polymer lithium battery", <i>Materials Today Physics</i>, 22, 22 January 2022, doi: <a href="https://doi.org/10.1016/j.mtphys.2022.100620">https://doi.org/10.1016/j.mtphys.2022.100620</a>.</p> <p>#HUANG Xin, #LYU Dong, #AI Liqing, CHENG Shuk Han, YAO Xi, "Aggregate Engineering in Supramolecular Polymers via Extensive Non-covalent Networks", <i>Chinese Journal of Polymer Science</i>, 39(10), 23 July 2021, pp 1310-1318, doi: <a href="https://doi.org/10.1007/s10118-021-2608-x">https://doi.org/10.1007/s10118-021-2608-x</a>.</p> <p>#LYU Dong, ZHENG Shuang, #CAO Chunyan, #LI Kedi, #AI Liqing, #LI Xin, YANG Zhengbao, XU Zhengtao, YAO Xi, "Defect-enhanced selective ion transport in an ionic nanocomposite for efficient energy harvesting from moisture", <i>Energy &amp; Environmental Science</i>, 15(6), 28 April 2022, pp 2601-2609, doi: <a href="https://doi.org/10.1039/d2ee00432a">https://doi.org/10.1039/d2ee00432a</a>.</p> <p>ZHENG Shuang, TANG Jiayue, #LYU Dong, WANG Mi, YANG Xuan, #HOU Changshun, #YI Bo, #LU Gang, HAO Ruiran, WANG Mingzhan, WANG Yanlei, HE Hongyan, YAO Xi, "Continuous Energy Harvesting from Ubiquitous Humidity Gradients using Liquid-Infused Nanofluidics", <i>Advanced Materials</i>, 34(4), 29 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106410">https://doi.org/10.1002/adma.202106410</a>.</p> <p>#YI Bo, #AI Liqing, #HOU Changshun, #LYU Dong, #CAO Chunyan, YAO Xi, "Liquid Metal Nanoparticles as a Highly Efficient Photoinitiator to Develop Multifunctional Hydrogel Composites", <i>ACS applied materials &amp; interfaces</i>, 14(25), 14 June 2022, pp 29315-29323, doi: <a href="https://doi.org/10.1021/acsami.2c07507">https://doi.org/10.1021/acsami.2c07507</a>.</p> <p>CAO Chunyan, #HUANG Xin, #LYU Dong, #AI Liqing, #CHEN Weiling, #HOU Changshun, #YI Bo, LUO Jingdong, YAO Xi, "Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization", <i>Materials Horizons</i>, 8(12), 08 October 2021, pp 3399-3408, doi: <a href="https://doi.org/10.1039/d1mh00924a">https://doi.org/10.1039/d1mh00924a</a>.</p> |
| <b>MA Haiying</b>  | <p>#LIU Guopan, #CHOI Ming Ho, #MA Haiying, GUO Xuejiao, LO Pui Chi, KIM Jinyong, ZHANG Liang, "Bioorthogonal Conjugation-Assisted Purification Method for Profiling Cell Surface Proteome", <i>Analytical Chemistry</i>, 94(3), 12 January 2022, pp 1901–1909, doi: <a href="https://doi.org/10.1021/acs.analchem.1c05187">https://doi.org/10.1021/acs.analchem.1c05187</a>.</p>  |
| <b>MA Zhibin</b>   | <p>ZHU Kaiyuan, CAI Yang, #SI Xiaotong, YE Zuodong, GAO Yuanzhu, LIU Chuang, WANG Rui, #MA Zhibin, ZHU Huazhang, ZHANG Liang, LI Shengjin, ZHANG Hongmin, YUE Jianbo, "The phosphorylation and dephosphorylation switch of VCP/p97 regulates the architecture of centrosome and spindle", <i>Cell Death and Differentiation</i>, 16 April 2022, doi: <a href="https://doi.org/10.1038/s41418-022-01000-4">https://doi.org/10.1038/s41418-022-01000-4</a>.</p>  |
| <b>MANNO Sinai</b> | <p>XIE Fangjing, XU Shisan, LU Yingying, WONG Kin Fung, SUN Lei, HASAN Kazi Md Mahmudul, MA Alvin C.H., TSE Gary, #MANNO Sinai, #TIAN Li, YUE Jianbo, CHENG Shuk Han, "Metformin accelerates zebrafish heart regeneration by inducing autophagy", <i>npj Regenerative Medicine</i>, 6, 08 October 2021, doi: <a href="https://doi.org/10.1038/s41536-021-00172-w">https://doi.org/10.1038/s41536-021-00172-w</a>.</p>  |
| <b>MENG Jie</b>    | <p>#MENG Jie, ZHANG Guofan, WANG Wenxiong, "Functional heterogeneity of immune defenses in molluscan oysters <i>Crassostrea hongkongensis</i> revealed by high-throughput single-cell transcriptome", <i>Fish and Shellfish Immunology</i>, 120, 27 November 2021, pp 202-213, doi: <a href="https://doi.org/10.1016/j.fsi.2021.11.027">https://doi.org/10.1016/j.fsi.2021.11.027</a>.</p>   |
| <b>QI Lin</b>      | <p>#QI Lin, WANG Wei, #WU Tan, #ZHU Lina, #HE Lingli, WANG Xin, "Multi-Omics Data Fusion for Cancer Molecular Subtyping Using Sparse Canonical Correlation Analysis", <i>Frontiers in Genetics</i>, 12, 22 July 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.607817">https://doi.org/10.3389/fgene.2021.607817</a>.</p>  |
| <b>SI Tongxu</b>   | <p>ZOU Heng, #YANG Zihan, CHAN Yuen San, #AU-YEUNG Allan Sung King, ALAM Md Kowsar, #SI Tongxu, XU Tao, YANG M, "Single cell analysis of mechanical properties and EMT-related gene expression profiles in cancer fingers", <i>iScience</i>, 25(3), 12 February 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.103917">https://doi.org/10.1016/j.isci.2022.103917</a>.</p>  |
| <b>SI Xiaotong</b> | <p>ZHU Kaiyuan, CAI Yang, #SI Xiaotong, YE Zuodong, GAO Yuanzhu, LIU Chuang, WANG Rui, #MA Zhibin, ZHU Huazhang, ZHANG Liang, LI Shengjin, ZHANG Hongmin, YUE Jianbo, "The phosphorylation and dephosphorylation switch of VCP/p97 regulates the architecture of centrosome and spindle", <i>Cell Death and Differentiation</i>, 16 April 2022, doi: <a href="https://doi.org/10.1038/s41418-022-01000-4">https://doi.org/10.1038/s41418-022-01000-4</a>.</p>  |



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| <b>SU Dan</b>                      | <u>WEI Likun</u> , <u>WANG Meiniang</u> , <u>XIANG Haitao</u> , #JIANG Yuan, #GONG Jinhua, #SU Dan, <u>AL AZAD Muha Ajjur Rahman</u> , <u>DONG Hongming</u> , <u>FENG Limin</u> , <u>WU Jiajun</u> , <u>CHAN Lai Leo</u> , <u>YANG Naibo</u> , <u>SHI Jiahai</u> , "Bamboo Shark as a Small Animal Model for Single Domain Antibody Production", <i>Frontiers in Bioengineering and Biotechnology</i> , 9, 08 December 2021, doi: <a href="https://doi.org/10.3389/fbioe.2021.792111">https://doi.org/10.3389/fbioe.2021.792111</a> .  |
| <b>SUPIT Alva Sahiri Alexander</b> | <u>ZHANG Xiaoming</u> , <u>ZHANG Bo-Wen</u> , <u>XIANG Lue</u> , <u>WU Hui</u> , #SUPIT Alva Sahiri Alexander, <u>ZHOU Peipei</u> , <u>DAI Melvin Zi-Yu</u> , <u>WANG Xiaoyun</u> , <u>XIONG Wenjun</u> , <u>ZHANG Yan</u> , <u>JIN Zi-Bing</u> , <u>DENG Lih-Wen</u> , "MLL5 is involved in retinal photoreceptor maturation through facilitating CRX-mediated photoreceptor gene transactivation", <i>iScience</i> , 25(4), 11 March 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104058">https://doi.org/10.1016/j.isci.2022.104058</a> .  |
|                                    | #SUPIT Alva Sahiri Alexander, <u>TELEW Agusteivie</u> , <u>BAWILING Nancy</u> , "The church, food culture, and ecotheology: An ongoing church effort in reducing bushmeat eating in Minahasa, Indonesia", <i>Christian Journal for Global Health</i> , 8(1), 30 July 2021, pp 64-68, doi: <a href="https://doi.org/10.15566/CJGH.V8I1.537">https://doi.org/10.15566/CJGH.V8I1.537</a> .  |
| <b>TAN Miaomiao</b>                | <u>WU Jie</u> , <u>LIU Qinjie</u> , <u>ZHANG Xufei</u> , #TAN Miaomiao, <u>LI Xuanheng</u> , <u>LIU Peizhao</u> , <u>WU Lei</u> , <u>JIAO Fan</u> , <u>LIN Zhaoyu</u> , <u>WU Xiwen</u> , <u>WANG Xin</u> , <u>ZHAO Yun</u> , <u>REN Jianan</u> , "The interaction between STING and NCOA4 exacerbates lethal sepsis by orchestrating ferroptosis and inflammatory responses in macrophages", <i>Cell Death and Disease</i> , 13, 2022, doi: <a href="https://doi.org/10.1038/s41419-022-05115-x">https://doi.org/10.1038/s41419-022-05115-x</a> .   |
|                                    | #TAN Miaomiao, <u>MA Jing</u> , <u>YANG Xi</u> , <u>YOU Qi</u> , <u>GUO Xiaoxin</u> , <u>LI Yiu Hei</u> , <u>WANG Rui</u> , <u>HAN Guiyuan</u> , <u>CHEN Yundai</u> , <u>QIU Xiaoyan</u> , <u>WANG Xin</u> , <u>ZHANG Liang</u> , "Quantitative proteomics reveals differential immunoglobulin-associated proteome (IgAP) in patients of acute myocardial infarction and chronic coronary syndromes", <i>Journal of Proteomics</i> , 252, 07 December 2021, doi: <a href="https://doi.org/10.1016/j.jprot.2021.104449">https://doi.org/10.1016/j.jprot.2021.104449</a> .                                   |
|                                    | <u>IZUMI Daisuke</u> , #ZHU Zhongxu, <u>CHEN Yuetong</u> , <u>TODEN Shusuke</u> , <u>HUO Xinying</u> , <u>KANDA Mitsuro</u> , <u>ISHIMOTO Takatsugu</u> , <u>GU Dongying</u> , #TAN Miaomiao, <u>KODERA Yasuhiro</u> , <u>BABA Hideo</u> , <u>LI Wei</u> , <u>CHEN Jinfei</u> , <u>WANG Xin</u> , <u>GOEL Ajay</u> , "Assessment of the Diagnostic Efficiency of a Liquid Biopsy Assay for Early Detection of Gastric Cancer", <i>JAMA network open</i> , 4(8), 24 August 2021, doi: <a href="https://doi.org/10.1001/jamanetworkopen.2021.21129">https://doi.org/10.1001/jamanetworkopen.2021.21129</a> . |
| <b>TIAN Li</b>                     | <u>XIE Fangjing</u> , <u>XU Shisan</u> , <u>LU Yingying</u> , <u>WONG Kin Fung</u> , <u>SUN Lei</u> , <u>HASAN Kazi Md Mahmudul</u> , <u>MA Alvin C.H.</u> , <u>TSE Gary</u> , #MANNO Sinai, #TIAN Li, <u>YUE Jianbo</u> , <u>CHENG Shuk Han</u> , "Metformin accelerates zebrafish heart regeneration by inducing autophagy", <i>npj Regenerative Medicine</i> , 6, 08 October 2021, doi: <a href="https://doi.org/10.1038/s41536-021-00172-w">https://doi.org/10.1038/s41536-021-00172-w</a> .   |
| <b>TIAN Tian</b>                   | <u>WANG Rui</u> , <u>YANG Dongyan</u> , #TIAN Tian, <u>AN Yuhao</u> , <u>WAN Chuan</u> , <u>CHANG Qi</u> , <u>LIANG Mingchan</u> , <u>HOU Zhanfeng</u> , #WANG Ying, <u>ZHANG Liang</u> , <u>LI Zigang</u> , "Low-Toxicity Sulfonium-Based Probes for Cysteine-Specific Profiling in Live Cells", <i>Analytical Chemistry</i> , 94(10), 04 March 2022, pp 4366-4372, doi: <a href="https://doi.org/10.1021/acs.analchem.1c05129">https://doi.org/10.1021/acs.analchem.1c05129</a> .  |
| <b>WAN Yi Ching Esther</b>         | <u>KANG Evangeline Tze Zhen</u> , #WAN Yi Ching Esther, <u>ZHANG Zhiguo</u> , <u>CHAN Kui Ming</u> , "Lrwd1 impacts cell proliferation and the silencing of repetitive DNA elements", <i>Genesis</i> , 60(4-5), 22 April 2022, doi: <a href="https://doi.org/10.1002/dvg.23475">https://doi.org/10.1002/dvg.23475</a> .  |
| <b>WANG Meijun</b>                 | #DOTSE Eunice, #LIM King Hoo, #WANG Meijun, <u>WIJANARKO Kevin Julio</u> , <u>CHOW Kwan Ting</u> , "An Immunological Perspective of Circulating Tumor Cells as Diagnostic Biomarkers and Therapeutic Targets", <i>Life</i> , 12(2), 21 February 2022, doi: <a href="https://doi.org/10.3390/life12020323">https://doi.org/10.3390/life12020323</a> .   |
| <b>WANG Wanying</b>                | #HE Yunhu, <u>CHEN Zhou</u> , #KONG Shangcheng, #MAO Zhengyi, #YANG Chen, #WANG Wanying, #WAN Lei, <u>LIU Guo</u> , #YIN Jianan, <u>CHAN Chi Hou</u> , <u>LU Jian</u> , "Light-controlled multifunctional reconfigurable structures", <i>Applied Materials Today</i> , 26, 29 January 2022, doi: <a href="https://doi.org/10.1016/j.apmt.2022.101393">https://doi.org/10.1016/j.apmt.2022.101393</a> .   |
| <b>WANG Xuejiao</b>                | <u>ZHANG Jianqiang</u> , #WANG Xuejiao, <u>WANG Zhaoyue</u> , <u>PAN Shangfa</u> , #YI Bo, #AI Liqing, <u>GAO Jun</u> , <u>MUGELE Frieder</u> , <u>YAO Xi</u> , "Wetting ridge assisted programmed magnetic actuation of droplets on ferrofluid-infused surface", <i>Nature Communications</i> , 12, 08 December 2021, doi: <a href="https://doi.org/10.1038/s41467-021-27503-1">https://doi.org/10.1038/s41467-021-27503-1</a> .  |
|                                    | #WANG Xuejiao, <u>LI Yong</u> , <u>ZHAO Mingyuan</u> , <u>WANG Haixia</u> , <u>WAN Qianyi</u> , <u>SHI Chao</u> , <u>MA Cuiping</u> , "An ultrafast ratiometric electrochemical biosensor based on potential-assisted  |

Section A: Publications of PhD Students

|                    |  |
|--------------------|--|
|                    | hybridization for nucleic acids detection", <i>Analytica Chimica Acta</i> , 1211, 07 May 2022, doi: <a href="https://doi.org/10.1016/j.aca.2022.339915">https://doi.org/10.1016/j.aca.2022.339915</a> .  |
| <b>WANG Ying</b>   | TANG Xiao, CHEN Rong, ST DOLLENTE MESIAS Vince, WANG Tingxuan, # <a href="#">WANG Ying</a> , POLJAK Kristina, FAN Xinyu, MIAO Hanchi, HU Junjie, <a href="#">ZHANG Liang</a> , HUANG Jinqing, YAO Shuhuai, MILLER Elizabeth A., GUO Yusong, "A SURF4-to-proteoglycan relay mechanism that mediates the sorting and secretion of a tagged variant of sonic hedgehog", <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 119(11), 10 March 2022, doi: <a href="https://doi.org/10.1073/pnas.2113991119">https://doi.org/10.1073/pnas.2113991119</a> . |
|                    | WANG Rui, YANG Dongyan, # <a href="#">TIAN Tian</a> , AN Yuhao, WAN Chuan, CHANG Qi, LIANG Mingchan, HOU Zhanfeng, # <a href="#">WANG Ying</a> , <a href="#">ZHANG Liang</a> , LI Zigang, "Low-Toxicity Sulfonium-Based Probes for Cysteine-Specific Profiling in Live Cells", <i>Analytical Chemistry</i> , 94(10), 04 March 2022, pp 4366-4372, doi: <a href="https://doi.org/10.1021/acs.analchem.1c05129">https://doi.org/10.1021/acs.analchem.1c05129</a> .   |
|                    | YANG Jiali, # <a href="#">WANG Ying</a> , YANG Dandan, MA Jia, WU Shuang, CAI Qian, XUE Jing, YUAN Chao, WANG Jing, LIU Xiaoming, "Wnt/ $\beta$ -catenin signaling regulates lipopolysaccharide-altered polarizations of RAW264.7 cells and alveolar macrophages in mouse lungs", <i>European Journal of Inflammation</i> , 19, 27 November 2021, doi: <a href="https://doi.org/10.1177/20587392211059362">https://doi.org/10.1177/20587392211059362</a> .   |
| <b>WANG Yiran</b>  | # <a href="#">LI Yichen</a> , ZHANG Qian, # <a href="#">WU Mandi</a> , ZHANG Peidong, HUANG Liang, AI Xiaolin, YANG Zhengnan, SHEN Qihong, # <a href="#">WANG Yiran</a> , WANG Ping, ZHOU Shengtao, <a href="#">HE Mingliang</a> , "Suppressing MDSC Infiltration in Tumor Microenvironment Serves as an Option for Treating Ovarian Cancer Metastasis", <i>International Journal of Biological Sciences</i> , 18(9), 21 May 2022, pp 3697-3713, doi: <a href="https://doi.org/10.7150/ijbs.70013">https://doi.org/10.7150/ijbs.70013</a> .  |
|                    | # <a href="#">WANG Yiran</a> , # <a href="#">WU Mandi</a> , # <a href="#">LI Yichen</a> , YUEN Ho Him, <a href="#">HE Mingliang</a> , "The effects of SARS-CoV-2 infection on modulating innate immunity and strategies of combating inflammatory response for COVID-19 therapy", <i>Journal of Biomedical Science</i> , 29, 03 May 2022, doi: <a href="https://doi.org/10.1186/s12929-022-00811-4">https://doi.org/10.1186/s12929-022-00811-4</a> .   |
| <b>WARIS Abdul</b> | # <a href="#">ASIM Muhammad</a> , HAO Bo, # <a href="#">WARIS Abdul</a> , LIANG Yi-Meng, WANG Xiao-Guang, "Ketamine attenuates the PTSD-like effect via regulation of glutamatergic signaling in the nucleus accumbens of mice", <i>Molecular and Cellular Neurosciences</i> , 120, 26 March 2022, doi: <a href="https://doi.org/10.1016/j.mcn.2022.103723">https://doi.org/10.1016/j.mcn.2022.103723</a> .  |
|                    | KHAN Atta Ullah, KHAN Allah Nawaz, # <a href="#">WARIS Abdul</a> , ILYAS Muhammad, ZAMEL Doaa, "Phytoremediation of pollutants from wastewater: A concise review", <i>Open Life Sciences</i> , 17(1), 13 May 2022, pp 488-496, doi: <a href="https://doi.org/10.1515/biol-2022-0056">https://doi.org/10.1515/biol-2022-0056</a> .  |
|                    | # <a href="#">WARIS Abdul</a> , ALI Asmat, KHAN Atta Ullah, # <a href="#">ASIM Muhammad</a> , ZAMEL Doaa, FATIMA Kinza, RAZIQ Abdur, KHAN Muhammad Ajmal, AKBAR Nazia, BASET Abdul, ABOUREHAB Mohammed A. S., "Applications of Various Types of Nanomaterials for the Treatment of Neurological Disorders", <i>Nanomaterials</i> , 12(13), 22 June 2022, doi: <a href="https://doi.org/10.3390/nano12132140">https://doi.org/10.3390/nano12132140</a> .  |
| <b>WU Mandi</b>    | # <a href="#">LI Yichen</a> , ZHANG Qian, # <a href="#">WU Mandi</a> , ZHANG Peidong, HUANG Liang, AI Xiaolin, YANG Zhengnan, SHEN Qihong, # <a href="#">WANG Yiran</a> , WANG Ping, ZHOU Shengtao, <a href="#">HE Mingliang</a> , "Suppressing MDSC Infiltration in Tumor Microenvironment Serves as an Option for Treating Ovarian Cancer Metastasis", <i>International Journal of Biological Sciences</i> , 18(9), 21 May 2022, pp 3697-3713, doi: <a href="https://doi.org/10.7150/ijbs.70013">https://doi.org/10.7150/ijbs.70013</a> .  |
|                    | YAN Qiaolin, DUAN Meng, # <a href="#">CHEN Cien</a> , DENG Zhiqing, # <a href="#">WU Mandi</a> , YU Peiyuan, <a href="#">HE Mingliang</a> , <a href="#">ZHU Guangyu</a> , HOUK Kendall N., SUN Jianwei, "Organocatalytic discrimination of non-directing aryl and heteroaryl groups: enantioselective synthesis of bioactive indole-containing triarylmethanes", <i>Chemical Science</i> , 13(19), 13 April 2022, doi: <a href="https://doi.org/10.1039/d2sc00636g">https://doi.org/10.1039/d2sc00636g</a> .   |
|                    | # <a href="#">WANG Yiran</a> , # <a href="#">WU Mandi</a> , # <a href="#">LI Yichen</a> , YUEN Ho Him, <a href="#">HE Mingliang</a> , "The effects of SARS-CoV-2 infection on modulating innate immunity and strategies of combating inflammatory response for COVID-19 therapy", <i>Journal of Biomedical Science</i> , 29, 03 May 2022, doi: <a href="https://doi.org/10.1186/s12929-022-00811-4">https://doi.org/10.1186/s12929-022-00811-4</a> .   |
|                    | LI Zhiyang, # <a href="#">LI Yichen</a> , LI Xingguang, # <a href="#">WU Mandi</a> , <a href="#">HE Mingliang</a> , SUN Jianwei, "Organocatalytic asymmetric formal oxidative coupling for the construction of all-aryl  |

Section A: Publications of PhD Students

|                    |  |
|--------------------|--|
|                    | quaternary stereocenters", <i>Chemical Science</i> , 12(35), 29 July 2021, pp 11793-11798, doi: <a href="https://doi.org/10.1039/d1sc03324g">https://doi.org/10.1039/d1sc03324g</a> .  |
| <b>YANG Yujie</b>  | ZANG Yaning, ZHANG Yongni, LAI Xigui, # <a href="#">YANG Yujie</a> , GUO Jiabao, GU Shanshan, ZHU Yi, "Repetitive Transcranial Magnetic Stimulation for Neuropathic Pain on the Non-Motor Cortex: An Evidence Mapping of Systematic Reviews", <i>Evidence-based Complementary and Alternative Medicine</i> , 2021, 29 October 2021, doi: <a href="https://doi.org/10.1155/2021/3671800">https://doi.org/10.1155/2021/3671800</a> .   |
|                    | CHEN Binglin, GUO Jiabao, NI Ying, ZHANG Wenyi, ZHANG Yongni, # <a href="#">YANG Yujie</a> , XIE Bin, CHENG Jie, ZHU Yi, "Effects of Sacral Nerve Stimulation on Neuronal Nitric Oxide Synthase in the Colon and Sacral Cord of Rats With Defecation Disorder After Spinal Cord Injury", <i>World Neurosurgery</i> , 25 April 2022, doi: <a href="https://doi.org/10.1016/j.wneu.2022.04.080">https://doi.org/10.1016/j.wneu.2022.04.080</a> .   |
| <b>YANG Zihan</b>  | CHEN Siyuan, NING Bo, SONG Jinwen, # <a href="#">YANG Zihan</a> , ZHOU Li, CHEN Zhiji, MAO Linhong, LIU Hongtao, WANG Qingliang, HE Song, ZHOU Zhihang, "Enhanced pentose phosphate pathway activity promotes pancreatic ductal adenocarcinoma progression via activating YAP/MMP1 axis under chronic acidosis", <i>International Journal of Biological Sciences</i> , 18(6), 06 March 2022, pp 2304-2316, doi: <a href="https://doi.org/10.7150/ijbs.69526">https://doi.org/10.7150/ijbs.69526</a> .  |
|                    | <a href="#">ZOU Heng</a> , # <a href="#">YANG Zihan</a> , <a href="#">CHAN Yuen San</a> , # <a href="#">AU-YEUNG Allan Sung King</a> , <a href="#">ALAM Md Kowsar</a> , # <a href="#">SI Tongxu</a> , <a href="#">XU Tao</a> , <a href="#">YANG M</a> , "Single cell analysis of mechanical properties and EMT-related gene expression profiles in cancer fingers", <i>iScience</i> , 25(3), 12 February 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.103917">https://doi.org/10.1016/j.isci.2022.103917</a> .  |
|                    | ZHOU Li, WANG Qingliang, MAO Linhong, CHEN Siyuan, # <a href="#">YANG Zihan</a> , LIU Xue, GAO Yuhua, LI Xiaojin, ZHOU Zhihang, HE Song, "Hepatocyte-Specific Knock-Out of Nfib Aggravates Hepatocellular Tumorigenesis via Enhancing Urea Cycle", <i>Frontiers in Molecular Biosciences</i> , 9, 17 May 2022, pp 875324, doi: <a href="https://doi.org/10.3389/fmolb.2022.875324">https://doi.org/10.3389/fmolb.2022.875324</a> .   |
| <b>YAO Chunyan</b> | # <a href="#">YAO Chunyan</a> , <a href="#">SHAO Xiaolong</a> , # <a href="#">LI Jingwei</a> , <a href="#">DENG Xin</a> , "Optimized protocols for ChIP-seq and deletion mutant construction in <i>Pseudomonas syringae</i> ", <i>STAR Protocols</i> , 2(3), 17 September 2021, doi: <a href="https://doi.org/10.1016/j.xpro.2021.100776">https://doi.org/10.1016/j.xpro.2021.100776</a> .   |
|                    | <a href="#">XIE Yingpeng</a> , # <a href="#">DING Yiqing</a> , <a href="#">SHAO Xiaolong</a> , # <a href="#">YAO Chunyan</a> , # <a href="#">LI Jingwei</a> , # <a href="#">LIU Jingui</a> , <a href="#">DENG Xin</a> , " <i>Pseudomonas syringae</i> senses polyphenols via phosphorelay crosstalk to inhibit virulence", <i>EMBO Reports</i> , 22(12), 28 September 2021, doi: <a href="https://doi.org/10.15252/embr.202152805">https://doi.org/10.15252/embr.202152805</a> .   |
| <b>YI Bo</b>       | # <a href="#">LI Bo</a> , # <a href="#">LIU Jiahua</a> , <a href="#">LYU Fucong</a> , # <a href="#">DENG Zhiqin</a> , # <a href="#">YI Bo</a> , # <a href="#">DU Peng</a> , <a href="#">YAO Xi</a> , <a href="#">ZHU Guangyu</a> , <a href="#">XU Zhengtao</a> , <a href="#">LU Jian</a> , <a href="#">LI Yangyang</a> , "Mineral Hydrogel from Inorganic Salts: Biocompatible Synthesis, All-in-One Charge Storage, and Possible Implications in the Origin of Life", <i>Advanced Functional Materials</i> , 32(13), 07 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202109302">https://doi.org/10.1002/adfm.202109302</a> .           |
|                    | # <a href="#">YI Bo</a> , # <a href="#">AI Liqing</a> , # <a href="#">HOU Changshun</a> , # <a href="#">LYU Dong</a> , # <a href="#">CAO Chunyan</a> , <a href="#">YAO Xi</a> , "Liquid Metal Nanoparticles as a Highly Efficient Photoinitiator to Develop Multifunctional Hydrogel Composites", <i>ACS applied materials &amp; interfaces</i> , 14(25), 14 June 2022, pp 29315-29323, doi: <a href="https://doi.org/10.1021/acsami.2c07507">https://doi.org/10.1021/acsami.2c07507</a> .   |
|                    | <a href="#">CAO Chunyan</a> , # <a href="#">HUANG Xin</a> , # <a href="#">LYU Dong</a> , # <a href="#">AI Liqing</a> , # <a href="#">CHEN Weilong</a> , # <a href="#">HOU Changshun</a> , # <a href="#">YI Bo</a> , <a href="#">LUO Jingdong</a> , <a href="#">YAO Xi</a> , "Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization", <i>Materials Horizons</i> , 8(12), 08 October 2021, pp 3399-3408, doi: <a href="https://doi.org/10.1039/d1mh00924a">https://doi.org/10.1039/d1mh00924a</a> .   |
|                    | <a href="#">ZHENG Shuang</a> , <a href="#">TANG Jiayue</a> , # <a href="#">LYU Dong</a> , <a href="#">WANG Mi</a> , <a href="#">YANG Xuan</a> , # <a href="#">HOU Changshun</a> , # <a href="#">YI Bo</a> , # <a href="#">LU Gang</a> , <a href="#">HAO Ruiran</a> , <a href="#">WANG Mingzhan</a> , <a href="#">WANG Yanlei</a> , <a href="#">HE Hongyan</a> , <a href="#">YAO Xi</a> , "Continuous Energy Harvesting from Ubiquitous Humidity Gradients using Liquid-Infused Nanofluidics", <i>Advanced Materials</i> , 34(4), 29 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106410">https://doi.org/10.1002/adma.202106410</a> . |
|                    | <a href="#">ZHANG Jianqiang</a> , # <a href="#">WANG Xuejiao</a> , <a href="#">WANG Zhaoyue</a> , <a href="#">PAN Shangfa</a> , # <a href="#">YI Bo</a> , # <a href="#">AI Liqing</a> , <a href="#">GAO Jun</a> , <a href="#">MUGELE Frieder</a> , <a href="#">YAO Xi</a> , "Wetting ridge assisted programmed magnetic actuation of droplets on ferrofluid-infused surface", <i>Nature Communications</i> , 12, 08 December 2021, doi: <a href="https://doi.org/10.1038/s41467-021-27503-1">https://doi.org/10.1038/s41467-021-27503-1</a> .  |

Section A: Publications of PhD Students

|   |   |
|---|---|
| <b>YIP Ki Chun</b>                                    | # <a href="#">ZHU Jingyi</a> , # <a href="#">LEE Wai Hin</a> , <a href="#">WU Jiajun</a> , # <a href="#">ZHOU Shiwen</a> , # <a href="#">YIP Ki Chun</a> , # <a href="#">LIU Xiaowan</a> , <a href="#">KIRATA Taratau</a> , <a href="#">CHAN Lai Leo</a> , "The Occurrence, Distribution, and Toxicity of High-Risk Ciguatera Fish Species (Grouper and Snapper) in Kiritimati Island and Marakei Island of the Republic of Kiribati", <i>Toxins</i> , 14(3), 15 March 2022, doi: <a href="https://doi.org/10.3390/toxins14030208">https://doi.org/10.3390/toxins14030208</a> .   |
| <b>ZHOU Shiwen</b>                                    | # <a href="#">LAO Jiayong</a> , <a href="#">WU Rongben</a> , <a href="#">CUI Yongsheng</a> , # <a href="#">ZHOU Shiwen</a> , <a href="#">RUAN Yuefei Phoebe</a> , <a href="#">LEUNG Mei Yee Kenneth</a> , <a href="#">WU Jiaxue</a> , <a href="#">ZENG Eddy Y.</a> , <a href="#">LAM Kwan Sing Paul</a> , "Significant input of organophosphate esters through particle-mediated transport into the Pearl River Estuary, China", <i>Journal of Hazardous Materials</i> , 438, 27 June 2022, doi: <a href="https://doi.org/10.1016/j.jhazmat.2022.129486">https://doi.org/10.1016/j.jhazmat.2022.129486</a> .<br># <a href="#">ZHU Jingyi</a> , # <a href="#">LEE Wai Hin</a> , <a href="#">WU Jiajun</a> , # <a href="#">ZHOU Shiwen</a> , # <a href="#">YIP Ki Chun</a> , # <a href="#">LIU Xiaowan</a> , <a href="#">KIRATA Taratau</a> , <a href="#">CHAN Lai Leo</a> , "The Occurrence, Distribution, and Toxicity of High-Risk Ciguatera Fish Species (Grouper and Snapper) in Kiritimati Island and Marakei Island of the Republic of Kiribati", <i>Toxins</i> , 14(3), 15 March 2022, doi: <a href="https://doi.org/10.3390/toxins14030208">https://doi.org/10.3390/toxins14030208</a> .   |
| <b>ZHU Jingyi</b>                                     | # <a href="#">ZHU Jingyi</a> , # <a href="#">LEE Wai Hin</a> , <a href="#">WU Jiajun</a> , # <a href="#">ZHOU Shiwen</a> , # <a href="#">YIP Ki Chun</a> , # <a href="#">LIU Xiaowan</a> , <a href="#">KIRATA Taratau</a> , <a href="#">CHAN Lai Leo</a> , "The Occurrence, Distribution, and Toxicity of High-Risk Ciguatera Fish Species (Grouper and Snapper) in Kiritimati Island and Marakei Island of the Republic of Kiribati", <i>Toxins</i> , 14(3), 15 March 2022, doi: <a href="https://doi.org/10.3390/toxins14030208">https://doi.org/10.3390/toxins14030208</a> .   |
| <b>ZHU Zhongxu</b>                                    | <a href="#">WADA Yuma</a> , <a href="#">SHIMADA Mitsuo</a> , <a href="#">MORINE Yuji</a> , <a href="#">IKEMOTO Tetsuya</a> , <a href="#">SAITO Yu</a> , # <a href="#">ZHU Zhongxu</a> , <a href="#">WANG Xin</a> , <a href="#">ETXART Ane</a> , <a href="#">PARK Yangsoon</a> , <a href="#">BUJANDA Luis</a> , <a href="#">PARK In Ja</a> , <a href="#">GOEL Ajay</a> , "Circulating miRNA Signature Predicts Response to Preoperative Chemoradiotherapy in Locally Advanced Rectal Cancer", <i>JCO Precision Oncology</i> , 5, 02 December 2021, pp 1788-1801, doi: <a href="https://doi.org/10.1200/PO.21.00015">https://doi.org/10.1200/PO.21.00015</a> .<br><a href="#">ROY Souvick</a> , <a href="#">KANDA Mitsuro</a> , <a href="#">NOMURA Sachiyo</a> , # <a href="#">ZHU Zhongxu</a> , <a href="#">TOIYAMA Yuji</a> , <a href="#">TAKETOMI Akinobu</a> , <a href="#">GOLDENRING James</a> , <a href="#">BABA Hideo</a> , <a href="#">KODERA Yasuhiro</a> , <a href="#">GOEL Ajay</a> , "Diagnostic efficacy of circular RNAs as noninvasive, liquid biopsy biomarkers for early detection of gastric cancer", <i>Molecular Cancer</i> , 21, 09 February 2022, doi: <a href="https://doi.org/10.1186/s12943-022-01527-7">https://doi.org/10.1186/s12943-022-01527-7</a> .<br><a href="#">LEE In-Seob</a> , # <a href="#">ZHU Zhongxu</a> , <a href="#">LEE Jeeyun</a> , <a href="#">PARK Joon Oh</a> , <a href="#">WU Xiwei</a> , <a href="#">ONG Tiffany</a> , <a href="#">LI Sierra Min</a> , <a href="#">WANG Xin</a> , <a href="#">CHAO Joseph</a> , <a href="#">GOEL Ajay</a> , "A liquid biopsy signature predicts treatment response to fluoropyrimidine plus platinum therapy in patients with metastatic or unresectable gastric cancer: implications for precision oncology", <i>Molecular Cancer</i> , 21, 03 January 2022, doi: <a href="https://doi.org/10.1186/s12943-021-01483-8">https://doi.org/10.1186/s12943-021-01483-8</a> .<br><a href="#">MIYOSHI Jinsei</a> , # <a href="#">ZHU Zhongxu</a> , <a href="#">LUO Aiping</a> , <a href="#">TODEN Shusuke</a> , <a href="#">ZHOU Xuanton</a> , <a href="#">IZUMI Daisuke</a> , <a href="#">KANDA Mitsuro</a> , <a href="#">TAKAYAMA Tetsuji</a> , <a href="#">PARKER Iqbal M.</a> , <a href="#">WANG Minjie</a> , <a href="#">GAO Feng</a> , <a href="#">ZAIDI Ali H.</a> , <a href="#">BABA Hideo</a> , <a href="#">KODERA Yasuhiro</a> , <a href="#">CUI Yongping</a> , <a href="#">WANG Xin</a> , <a href="#">LIU Zhihua</a> , <a href="#">GOEL Ajay</a> , "A microRNA-based liquid biopsy signature for the early detection of esophageal squamous cell carcinoma: a retrospective, prospective and multicenter study", <i>Molecular Cancer</i> , 21, 11 February 2022, doi: <a href="https://doi.org/10.1186/s12943-022-01507-x">https://doi.org/10.1186/s12943-022-01507-x</a> .<br><a href="#">IZUMI Daisuke</a> , # <a href="#">ZHU Zhongxu</a> , <a href="#">CHEN Yuetong</a> , <a href="#">TODEN Shusuke</a> , <a href="#">HUO Xinying</a> , <a href="#">KANDA Mitsuro</a> , <a href="#">ISHIMOTO Takatsugu</a> , <a href="#">GU Dongying</a> , # <a href="#">TAN Miaomiao</a> , <a href="#">KODERA Yasuhiro</a> , <a href="#">BABA Hideo</a> , <a href="#">LI Wei</a> , <a href="#">CHEN Jinfei</a> , <a href="#">WANG Xin</a> , <a href="#">GOEL Ajay</a> , "Assessment of the Diagnostic Efficiency of a Liquid Biopsy Assay for Early Detection of Gastric Cancer", <i>JAMA network open</i> , 4(8), 24 August 2021, doi: <a href="https://doi.org/10.1001/jamanetworkopen.2021.21129">https://doi.org/10.1001/jamanetworkopen.2021.21129</a> . |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>CHEUNG Hung Chi</b>                                | <a href="#">HUANG Linfeng</a> , # <a href="#">CHEUNG Hung Chi</a> , <a href="#">KAUR Guneet</a> , <a href="#">REN Yutian</a> , Small-Interfering RNA Expression Systems for Production of Small-Interfering RNAs and Their Use, Patent No.: US11,193,124, United States, 07 December 2021.  |
| <b>LIU Jundong</b>                                    | <a href="#">CHAN Kei Hang Katie</a> , # <a href="#">HUANG Ruixuan</a> , # <a href="#">LIU Jundong</a> , # <a href="#">WAN Tsz Kin</a> , <a href="#">WOO Yat Ming Peter</a> , METHOD AND SYSTEM FOR MACHINE LEARNING AND DEEP LEARNING BASED ASSESSMENT OF STROKE, Patent No.: HK30057394, Hong Kong, 08 April 2022.   |

Section A: Publications of PhD Students

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| <b>XU Shenghui</b>                 | <u>HE Jufang</u> , # <u>ZHANG Xu</u> , # <u>XU Shenghui</u> , <u>FENG Hemin</u> , <u>HAU Sarah</u> , # <u>ZHANG Ge</u> , Method and Composition for Treating Mental Disorder and Pain Associated with Nerve Damage, Patent No.: US11,285,161, United States, 29 March 2022.               |
| <b>XU Wei</b>                      | <u>CHANG</u> and <u>YUNG-FU</u> , <u>HUANG Linfeng</u> , <u>LI Yingxue</u> , <u>REN Yutian</u> , # <u>XU Wei</u> , Method of Treating Clostridium Difficile Infection Or Its Associated Symptoms, Patent No.: US11,318,154, United States, 03 May 2022.                                   |
| <b>ZHANG Ge</b>                    | <u>HE Jufang</u> , # <u>ZHANG Xu</u> , # <u>XU Shenghui</u> , <u>FENG Hemin</u> , <u>HAU Sarah</u> , # <u>ZHANG Ge</u> , Method and Composition for Treating Mental Disorder and Pain Associated with Nerve Damage, Patent No.: US11,285,161, United States, 29 March 2022.               |
| <b>ZHANG Xu</b>                    | <u>HE Jufang</u> , # <u>ZHANG Xu</u> , # <u>XU Shenghui</u> , <u>FENG Hemin</u> , <u>HAU Sarah</u> , # <u>ZHANG Ge</u> , Method and Composition for Treating Mental Disorder and Pain Associated with Nerve Damage, Patent No.: US11,285,161, United States, 29 March 2022.               |
| <b>All other outputs</b>           |   |
| <b>FALETI Oluwasijibomi Damola</b> | # <u>FALETI Oluwasijibomi Damola</u> , <i>Repurposing Dimethyl Fumarate as a Potential Drug for the Treatment of Hepatocellular Carcinoma</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 02 March 2022.                               |
| <b>HOANG Anh Duc</b>               | # <u>HOANG Anh Duc</u> , <i>AAV-CRISPR/Cas9 Based Gene Editing Therapy to Rescue Retinal Degeneration in Retinitis Pigmentosa Associated with the Rhodopsin Mutations</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 08 March 2022.   |
| <b>HOSSAIN Md Monir</b>            | # <u>HOSSAIN Md Monir</u> , <i>A New Cholecystokinin-B Receptor Antagonist MJM484 for the Treatment of Epilepsy</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 14 September 2021.   |
| <b>HOSSAIN Md Pear</b>             | # <u>HOSSAIN Md Pear</u> , <i>Impacts of Non-pharmaceutical Interventions and Weather Conditions on Infectious Disease Epidemics: Using COVID-19 and Dengue as Examples</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 19 April 2022. |
| <b>HUA Canfeng</b>                 | # <u>HUA Canfeng</u> , <i>Functional Analyses of Transcription Factors in Pseudomonas</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 10 August 2021.  |
| <b>HUANG Xin</b>                   | # <u>HUANG Xin</u> , <i>Construction of Robust Polymeric Networks in Bulk States via Cascaded Non-covalent Assembly</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 11 August 2021.  |
| <b>LEI Zhuogui</b>                 | # <u>LEI Zhuogui</u> , <i>Unravelling the Roles of Gq and Gs Signaling in Fear Learning and Anxiety in Mice</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 05 May 2022.   |
| <b>LI Hao</b>                      | # <u>LI Hao</u> , <i>Cholecystokinin from the Entorhinal Cortex Facilitates Motor Skills Learning</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 12 July 2021.  |
| <b>LI Jingyu</b>                   | # <u>LI Jingyu</u> , <i>Proteomic Applications of the CRISPR/Cas13 Technology</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 13 August 2021.  |
| <b>LI Wing Kar</b>                 | # <u>LI Wing Kar</u> , Best Poster Award at the 2nd AACR-KCA Joint Conference on Precision Medicine in Solid Tumors, South Korea, Korean Cancer Association, 06 November 2021.  |
| <b>LI Yichen</b>                   | # <u>LI Yichen</u> , <i>Golgi Complex Remodeling Mediated by lncRNA-PPIP5K2 Complex Enhances Complement Secretion and MDSC Recruitment for Ovary Cancer Metastasis</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 14 June 2022.       |
| <b>LIANG Chen</b>                  | # <u>LIANG Chen</u> , <i>Engineering Iron-Based Stimuli-Responsive Nanomedicine for Multimodal Synergistic Cancer Therapy</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 04 January 2022.   |
| <b>PHAM Tuan Thach</b>             | # <u>PHAM Tuan Thach</u> , <i>Engineering Extracellular Vesicle for Efficient Delivery of Therapeutic Cargo</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 13 August 2021.  |

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| <b>SUPIT Alva Sahiri Alexander</b>                         | # <a href="#">SUPIT Alva Sahiri Alexander</a> , <i>The Role of Thioredoxin-interacting Protein (TXNIP) in Retinal Degeneration</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 08 December 2021.   |
| <b>WAN Yi Ching Esther</b>                                 | # <a href="#">WAN Yi Ching Esther</a> , <i>A Study on the Role of H2BG53D in Pancreatic Ductal Adenocarcinoma</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 17 November 2021.  |
| <b>XU Shenghui</b>   | # <a href="#">XU Shenghui</a> , <i>Cholecystokinin 2 Receptor Antagonists for the Treatment of Temporal Lobe Epilepsy in Animal Models</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.   |
| <b>XU Wei</b>  | # <a href="#">XU Wei</a> , <i>Host Factors Screen and Mechanistic Study for Zika Virus in a Novel Chinese Tree Shrew Cell Line Model</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 07 February 2022.   |
| <b>YANG Yujie</b>  | # <a href="#">YANG Yujie</a> , <i>Recombinant AAV-mediated Potentiation of GABAergic Inhibition Suppresses Temporal Lobe Epilepsy in the Mouse Model</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.   |
| <b>YI Bo</b>   | # <a href="#">YI Bo</a> , <i>Development of Supramolecular Polysiloxanes as Functional Coating for Catalytic Applications</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 18 August 2021.  |
| <b>ZHANG Ge</b>  | # <a href="#">ZHANG Ge</a> , <i>Heterosynaptic Neuroplasticity of Cortical Inhibitory Circuits</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.   |
| <b>ZHANG Xu</b>  | # <a href="#">ZHANG Xu</a> , <i>Cholecystokinin B Receptor Antagonists for the Treatment of Depression</i> , PhD Thesis, Department of Biomedical Sciences, City University of Hong Kong, Hong Kong, PRC, 06 September 2021.  |
| <b>DEPARTMENT OF INFECTIOUS DISEASES AND PUBLIC HEALTH</b> |   |
| <b>Journal publications</b>                                |   |
| <b>AZIZ Muhammad Umair</b>                                 | # <a href="#">HUSSAIN Sabir</a> , <a href="#">HUSSAIN Abrar</a> , # <a href="#">AZIZ Muhammad Umair</a> , # <a href="#">SONG Baolin</a> , <a href="#">ZEB Jehan</a> , <a href="#">GEORGE David</a> , <a href="#">LI Jun</a> , <a href="#">SPARAGANO Olivier Andre</a> , "A Review of Zoonotic Babesiosis as an Emerging Public Health Threat in Asia", <i>Pathogens</i> , 11(1), 24 December 2021, doi: <a href="https://doi.org/10.3390/pathogens11010023">https://doi.org/10.3390/pathogens11010023</a> .   |
|  | # <a href="#">HUSSAIN Sabir</a> , <a href="#">HUSSAIN Abrar</a> , # <a href="#">AZIZ Muhammad Umair</a> , # <a href="#">SONG Baolin</a> , <a href="#">ZEB Jehan</a> , <a href="#">GEORGE David</a> , <a href="#">LI Jun</a> , <a href="#">SPARAGANO Olivier Andre</a> , "The Role of Ticks in the Emergence of <i>Borrelia burgdorferi</i> as a Zoonotic Pathogen and Its Vector Control: A Global Systemic Review", <i>Microorganisms</i> , 9(12), 23 November 2021, doi: <a href="https://doi.org/10.3390/microorganisms9122412">https://doi.org/10.3390/microorganisms9122412</a> .                              |
|  | # <a href="#">SONG Baolin</a> , <a href="#">ZEB Jehan</a> , # <a href="#">HUSSAIN Sabir</a> , # <a href="#">AZIZ Muhammad Umair</a> , <a href="#">CIRCELLA Elena</a> , <a href="#">CASALINO Gaia</a> , <a href="#">CAMARDA Antonio</a> , <a href="#">YANG Guan</a> , <a href="#">BUCHON Nicolas</a> , <a href="#">SPARAGANO Olivier Andre</a> , "A Review on the Marek's Disease Outbreak and Its Virulence-Related <i>meq</i> Genovariation in Asia between 2011 and 2021", <i>Animals</i> , 12(5), 22 February 2022, doi: <a href="https://doi.org/10.3390/ani12050540">https://doi.org/10.3390/ani12050540</a> . |
|  | # <a href="#">HUSSAIN Sabir</a> , <a href="#">PERVEEN Nighat</a> , <a href="#">HUSSAIN Abrar</a> , # <a href="#">SONG Baolin</a> , # <a href="#">AZIZ Muhammad Umair</a> , <a href="#">ZEB Jehan</a> , <a href="#">LI Jun</a> , <a href="#">GEORGE David</a> , <a href="#">CABEZAS-CRUZ Alejandro</a> , <a href="#">SPARAGANO Olivier Andre</a> , "The Symbiotic Continuum Within Ticks: Opportunities for Disease Control", <i>Frontiers in Microbiology</i> , 13, 17 March 2022, doi: <a href="https://doi.org/10.3389/fmicb.2022.854803">https://doi.org/10.3389/fmicb.2022.854803</a> .                         |
|  | <a href="#">ZEB Jehan</a> , # <a href="#">SONG Baolin</a> , # <a href="#">AZIZ Muhammad Umair</a> , # <a href="#">HUSSAIN Sabir</a> , <a href="#">SPARAGANO Olivier Andre</a> , <a href="#">ZARIN Riaz</a> , "Diversity and Distribution of <i>Theileria</i> Species and Their Vectors in Ruminants from India, Pakistan and Bangladesh", <i>Diversity</i> , 14(2), 25 January 2022, doi: <a href="https://doi.org/10.3390/d14020082">https://doi.org/10.3390/d14020082</a> .   |
| <b>CHEUNG Yan Chu</b>                                      | <a href="#">WU Yuchen</a> , # <a href="#">YANG Xuemei</a> , <a href="#">LIU Congcong</a> , <a href="#">ZHANG Yanyan</a> , # <a href="#">CHEUNG Yan Chu</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , <a href="#">ZHANG Rong</a> , "Identification of a KPC Variant Conferring Resistance to Ceftazidime-Avibactam from ST11 Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Strains", <i>Microbiology Spectrum</i> , 10(2), March 2022, doi: <a href="https://doi.org/10.1128/spectrum.02655-21">https://doi.org/10.1128/spectrum.02655-21</a> .  |

Section A: Publications of PhD Students

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|------------------------------------|--|
|                                    | <p>CHENG Qipeng, #CHEUNG Yan Chu, #LIU Chenyu, CHAN Edward Wai-Chi, WONG Kwok-Yin, ZHANG Rong, #CHEN Sheng, "Functional and phylogenetic analysis of TetX variants to design a new classification system", <i>Communications Biology</i>, 5, 31 May 2022, doi: <a href="https://doi.org/10.1038/s42003-022-03465-y">https://doi.org/10.1038/s42003-022-03465-y</a>.</p> <p>WANG Jinzheng, LIN Du'An, LIU Ming, LIU Han, BLASCO Pilar, SUN Zhenquan, #CHEUNG Yan Chu, CHEN Sheng, LI Xuechen, "Total Synthesis of Mannopeptimycin <math>\beta</math> via <math>\beta</math>-Hydroxyenduracididine Ligation", <i>Journal of the American Chemical Society</i>, 143(32), 05 August 2021, pp 12784–12790, doi: <a href="https://doi.org/10.1021/jacs.1c05922">https://doi.org/10.1021/jacs.1c05922</a>.</p> <p>CHENG Qipeng, #CHEUNG Yan Chu, CHAN Wai Chi, WONG Kwok-Yin, CHEN Sheng, "Unveiling the evolution routes of TEM-type extended-spectrum <math>\beta</math>-lactamases", <i>International Journal of Antimicrobial Agents</i>, 59(1), 17 December 2021, doi: <a href="https://doi.org/10.1016/j.ijantimicag.2021.106498">https://doi.org/10.1016/j.ijantimicag.2021.106498</a>.</p> <p>CHENG Qipeng, #CHEUNG Yan Chu, #LIU Chenyu, XIAO Qingjie, SUN Bo, ZHOU Jiahai, CHAN Wai Chi, ZHANG Rong, CHEN Sheng, "Structural and mechanistic basis of the high catalytic activity of monooxygenase Tet(X4) on tigecycline", <i>BMC Biology</i>, 19, 11 December 2021, doi: <a href="https://doi.org/10.1186/s12915-021-01199-7">https://doi.org/10.1186/s12915-021-01199-7</a>.</p> |
| <b>COSTA DA SILVA Raniere Gaia</b> | <p>ZUVANOV Luíza, GARCIA Ana Letycia Basso, CORRER Fernando Henrique, BIZARRIA Rodolfo, DA COSTA FILHO Ailton Pereira, DA COSTA Alisson Hayasi, THOMAZ Andréa T., PINHEIRO Ana Lucia Mendes, RIANO-PACHÓN Diego Mauricio, WINCK Flavia Vischi, ESTEVES Franciele Grego, MARGARIDO Gabriel Rodrigues Alves, CASAGRANDE Giovanna Maria Stanfoca, FRAJACOMO Henrique Cordeiro, MARTINS Leonardo, CAVALHEIRO Mariana Feitosa, GRACHET Nathalia Graf, #COSTA DA SILVA Raniere Gaia, CERRI Ricardo, RAMOS Rommel Thiago Juca, DE MEDEIROS Simone Daniela Sartorio, TAVARES Thayana Vieira, DOS SANTOS Renato Augusto Correa, "The experience of teaching introductory programming skills to bioscientists in Brazil", <i>PLoS Computational Biology</i>, 17(11), 11 November 2021, doi: <a href="https://doi.org/10.1371/journal.pcbi.1009534">https://doi.org/10.1371/journal.pcbi.1009534</a>.</p>   |
| <b>FENG Shuo</b>                   | <p>BRUSSEL Kate Van, #WANG Xiuwan, SHI Mang, CARRAI Maura, #FENG Shuo, LI Jun, HOLMES Edward C., BEATTY Julia Anne, BARRS Vanessa Rosemary Duke, "The enteric virome of cats with feline panleukopenia differs in abundance and diversity from healthy cats", <i>Transboundary and Emerging Diseases</i>, 29 June 2022, doi: <a href="https://doi.org/10.1111/tbed.14646">https://doi.org/10.1111/tbed.14646</a>.</p>  |
| <b>HASIB F M Yasir</b>             | <p>ABUL FAZAL Md, NATH Chandan, ISLAM Md Sirazul, #HASIB F M Yasir, REZA Md Moktadir Billah, DEVNATH Himadri Shankar, NAHID-IBN-RAHMAN Md, AHAD Abdul, "Isolation and identification of multidrug-resistant <i>Escherichia coli</i> from cattle, sheep, poultry and human in Cumilla, Bangladesh", <i>Malaysian Journal of Microbiology</i>, 18(2), 2022, pp 227-234.</p> <p>ISLAM Md Sirazul, #HASIB F M Yasir, NATH Chandan, ARA Jahan, LOGNO Tahia Ahmed, UDDIN Md. Helal, KHALIL Md. Ibrahim, DUTTA Pronesh, DAS Tridip, CHOWDHURY Sharmin, "Molecular detection and risk factors associated with multidrug-resistant <i>Campylobacter jejuni</i> from broiler cloacal and meat samples in Bangladesh", <i>Zoonoses and Public Health</i>, 26 May 2022, doi: <a href="https://doi.org/10.1111/zph.12975">https://doi.org/10.1111/zph.12975</a>.</p> <p>#HASIB F M Yasir, "Esophageal squamous cell carcinoma: Integrated bioinformatics analysis for differential gene expression with identification of hub genes and lncRNA", <i>Biochemistry and Biophysics Reports</i>, 30, 16 April 2022, doi: <a href="https://doi.org/10.1016/j.bbrep.2022.101262">https://doi.org/10.1016/j.bbrep.2022.101262</a>.</p>   |
| <b>HENG Heng</b>                   | <p>#YE Lianwei, DONG Ning, XIONG Wenguang, LI Jun, LI Runsheng, #HENG Heng, CHAN Edward Wai-Chi, CHEN Sheng, "High-Resolution Metagenomics of Human Gut Microbiota Generated by Nanopore and Illumina Hybrid Metagenome Assembly", <i>Frontiers in Microbiology</i>, 13, 12 May 2022, doi: <a href="https://doi.org/10.3389/fmicb.2022.801587">https://doi.org/10.3389/fmicb.2022.801587</a>.</p>  |
| <b>HU Qiao</b>                     | <p>XU Wenjiao, FANG Yuwen, #HU Qiao, ZHU Kui, "Emerging Risks in Food: Probiotic Enterococci Pose a Threat to Public Health through the Food Chain", <i>Foods</i>, 10(11), 18 November 2021, doi: <a href="https://doi.org/10.3390/foods10112846">https://doi.org/10.3390/foods10112846</a>.</p>   |
| <b>HUSSAIN Sabir</b>               | <p>#HUSSAIN Sabir, HUSSAIN Abrar, #AZIZ Muhammad Umair, #SONG Baolin, ZEB Jehan, GEORGE David, LI Jun, SPARAGANO Olivier Andre, "A Review of Zoonotic Babesiosis as</p>  |

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|                         | <p>an Emerging Public Health Threat in Asia", <i>Pathogens</i>, 11(1), 24 December 2021, doi: <a href="https://doi.org/10.3390/pathogens11010023">https://doi.org/10.3390/pathogens11010023</a>.</p> <p>#<a href="#">HUSSAIN Sabir</a>, <a href="#">HUSSAIN Abrar</a>, #<a href="#">AZIZ Muhammad Umair</a>, #<a href="#">SONG Baolin</a>, <a href="#">ZEB Jehan</a>, <a href="#">GEORGE David</a>, <a href="#">LI Jun</a>, <a href="#">SPARAGANO Olivier Andre</a>, "The Role of Ticks in the Emergence of <i>Borrelia burgdorferi</i> as a Zoonotic Pathogen and Its Vector Control: A Global Systemic Review", <i>Microorganisms</i>, 9(12), 23 November 2021, doi: <a href="https://doi.org/10.3390/microorganisms9122412">https://doi.org/10.3390/microorganisms9122412</a>.</p> <p>#<a href="#">HUSSAIN Sabir</a>, <a href="#">HUSSAIN Abrar</a>, <a href="#">REHMAN Abdul</a>, <a href="#">GEORGE David</a>, <a href="#">LI Jun</a>, <a href="#">ZEB Jehan</a>, <a href="#">KHAN Adil</a>, <a href="#">SPARAGANO Olivier Andre</a>, "Spatio-temporal distribution of identified tick species from small and large ruminants of Pakistan", <i>Biologia</i>, 77(6), 25 August 2021, pp 1563–1573, doi: <a href="https://doi.org/10.1007/s11756-021-00865-z">https://doi.org/10.1007/s11756-021-00865-z</a>.</p> <p>#<a href="#">SONG Baolin</a>, <a href="#">ZEB Jehan</a>, #<a href="#">HUSSAIN Sabir</a>, #<a href="#">AZIZ Muhammad Umair</a>, <a href="#">CIRCELLA Elena</a>, <a href="#">CASALINO Gaia</a>, <a href="#">CAMARDA Antonio</a>, <a href="#">YANG Guan</a>, <a href="#">BUCHON Nicolas</a>, <a href="#">SPARAGANO Olivier Andre</a>, "A Review on the Marek's Disease Outbreak and Its Virulence-Related <i>meq</i> Genovariation in Asia between 2011 and 2021", <i>Animals</i>, 12(5), 22 February 2022, doi: <a href="https://doi.org/10.3390/ani12050540">https://doi.org/10.3390/ani12050540</a>.</p> <p>#<a href="#">HUSSAIN Sabir</a>, <a href="#">PERVEEN Nighat</a>, <a href="#">HUSSAIN Abrar</a>, #<a href="#">SONG Baolin</a>, #<a href="#">AZIZ Muhammad Umair</a>, <a href="#">ZEB Jehan</a>, <a href="#">LI Jun</a>, <a href="#">GEORGE David</a>, <a href="#">CABEZAS-CRUZ Alejandro</a>, <a href="#">SPARAGANO Olivier Andre</a>, "The Symbiotic Continuum Within Ticks: Opportunities for Disease Control", <i>Frontiers in Microbiology</i>, 13, 17 March 2022, doi: <a href="https://doi.org/10.3389/fmicb.2022.854803">https://doi.org/10.3389/fmicb.2022.854803</a>.</p> <p><a href="#">ZEB Jehan</a>, #<a href="#">SONG Baolin</a>, #<a href="#">AZIZ Muhammad Umair</a>, #<a href="#">HUSSAIN Sabir</a>, <a href="#">SPARAGANO Olivier Andre</a>, <a href="#">ZARIN Riaz</a>, "Diversity and Distribution of <i>Theileria</i> Species and Their Vectors in Ruminants from India, Pakistan and Bangladesh", <i>Diversity</i>, 14(2), 25 January 2022, doi: <a href="https://doi.org/10.3390/d14020082">https://doi.org/10.3390/d14020082</a>.</p> |
| <b>JAHANGIRI Ladan</b>  | <p>#<a href="#">JAHANGIRI Ladan</a>, <a href="#">MACKINNON Erica Brett</a>, <a href="#">ST-HILAIRE Sophie Natasha</a>, "Infectious diseases reported in warm-water marine fish cage culture in East and Southeast Asia—A systematic review", <i>Aquaculture Research</i>, 53(6), 27 January 2022, pp 2081-2108, doi: <a href="https://doi.org/10.1111/are.15769">https://doi.org/10.1111/are.15769</a>.</p>  |
| <b>KOHNLE Lisa Nora</b> | <p>EFSA Panel on Animal Health and Welfare (AHAW), <a href="#">NIELSEN Søren Saxmose</a>, <a href="#">BICOUT Dominique Joseph</a>, <a href="#">CALISTRI Paolo</a>, <a href="#">CANALI Elisabetta</a>, <a href="#">DREWE Julian Ashley</a>, <a href="#">GARIN-BASTUJI Bruno</a>, <a href="#">GONZALES ROJAS Jose Luis</a>, <a href="#">GORTAZAR SCHMIDT Christian</a>, <a href="#">HERSKIN Mette</a>, <a href="#">MICHEL Virginie</a>, <a href="#">MIRANDA CHUECA Miguel Angel</a>, <a href="#">PADALINO Barbara</a>, <a href="#">PASQUALI Paolo</a>, <a href="#">ROBERTS Helen Clare</a>, <a href="#">SPOOLDER Hans</a>, <a href="#">STAHL Karl</a>, <a href="#">VELARDE Antonio</a>, <a href="#">VILTROP Arvo</a>, <a href="#">WINCKLER Christoph</a>, <a href="#">DEWULF Jeroen</a>, <a href="#">GUARDABASSI Luca</a>, <a href="#">HILBERT Friederike</a>, <a href="#">MADER Rodolphe</a>, <a href="#">ROMALDE Jesús L</a>, <a href="#">SMITH Peter K.</a>, <a href="#">BALDINELLI Francesca</a>, #<a href="#">KOHNLÉ Lisa Nora</a>, <a href="#">ALVAREZ Julio</a>, "Assessment of animal diseases caused by bacteria resistant to antimicrobials:: kept fish species", <i>EFSA Journal</i>, 20(2), 02 February 2022, doi: <a href="https://doi.org/10.2903/j.efsa.2022.7076">https://doi.org/10.2903/j.efsa.2022.7076</a>.</p> <p>EFSA Panel on Animal Health and Welfare (AHAW), <a href="#">NIELSEN Søren Saxmose</a>, <a href="#">ALVAREZ Julio</a>, <a href="#">BICOUT Dominique Joseph</a>, <a href="#">CALISTRI Paolo</a>, <a href="#">CANALI Elisabetta</a>, <a href="#">DREWE Julian Ashley</a>, <a href="#">GARIN-BASTUJI Bruno</a>, <a href="#">GONZALES ROJAS José Luis</a>, <a href="#">GORTÁZAR Christian</a>, <a href="#">HERSKIN Mette</a>, <a href="#">MICHEL Virginie</a>, <a href="#">MIRANDA CHUECA Miguel Ángel</a>, <a href="#">ROBERTS Helen Clare</a>, <a href="#">PADALINO Barbara</a>, <a href="#">PASQUALI Paolo</a>, <a href="#">SPOOLDER Hans</a>, <a href="#">STÅHL Karl</a>, <a href="#">CALVO Antonio Velarde</a>, <a href="#">VILTROP Arvo</a>, <a href="#">WINCKLER Christoph</a>, <a href="#">CARVELLI Andrea</a>, <a href="#">PAILLOT Romain</a>, <a href="#">BROGLIA Alessandro</a>, #<a href="#">KOHNLÉ Lisa Nora</a>, <a href="#">BALDINELLI Francesca</a>, <a href="#">VAN DER STEDE Yves</a>, "Assessment of listing and categorisation of animal diseases within the framework of the Animal Health Law (Regulation (EU) No 2016/429): infection with Equine Herpesvirus-1", <i>EFSA Journal</i>, 20(1), 12 January 2022, doi: <a href="https://doi.org/10.2903/j.efsa.2022.7036">https://doi.org/10.2903/j.efsa.2022.7036</a>.</p>  |
| <b>KWOK Yin Cheung</b>  | <p><a href="#">LAI Keng Po</a>, #<a href="#">TAM Nathan Yi Kan</a>, <a href="#">CHEN Yuelong</a>, <a href="#">LEUNG Chi Tim</a>, <a href="#">LIN Xiao</a>, <a href="#">TSANG Chau Fong</a>, #<a href="#">KWOK Yin Cheung</a>, <a href="#">TSE William Ka-Fai</a>, <a href="#">CHENG Shuk Han</a>, <a href="#">CHAN Ting Fung</a>, <a href="#">KONG Yuen Chong Richard</a>, "miRNA–mRNA Integrative Analysis Reveals the Roles of miRNAs in Hypoxia-Altered Embryonic Development- and Sex Determination-Related Genes of Medaka Fish", <i>Frontiers in Marine Science</i>, 8, 21 January 2022, doi: <a href="https://doi.org/10.3389/fmars.2021.736362">https://doi.org/10.3389/fmars.2021.736362</a>.</p>   |



Section A: Publications of PhD Students

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|----------------------|--|
| <b>LIU Chenyu</b>    | <u>XU Chen</u> , # <u>LIU Chenyu</u> , <u>CHEN Kaichao</u> , ZENG Ping, <u>CHAN Wai Chi</u> , <u>CHEN Sheng</u> , "Otilonium bromide boosts antimicrobial activities of colistin against Gram-negative pathogens and their persisters", <i>Communications Biology</i> , 5, 21 June 2022, doi: <a href="https://doi.org/10.1038/s42003-022-03561-z">https://doi.org/10.1038/s42003-022-03561-z</a> .  |
|                      | <u>CHENG Qipeng</u> , # <u>CHEUNG Yan Chu</u> , # <u>LIU Chenyu</u> , <u>CHAN Edward Wai-Chi</u> , <u>WONG Kwok-Yin</u> , <u>ZHANG Rong</u> , # <u>CHEN Sheng</u> , "Functional and phylogenetic analysis of TetX variants to design a new classification system", <i>Communications Biology</i> , 5, 31 May 2022, doi: <a href="https://doi.org/10.1038/s42003-022-03465-y">https://doi.org/10.1038/s42003-022-03465-y</a> .  |
|                      | <u>CHENG Qipeng</u> , # <u>CHEUNG Yan Chu</u> , # <u>LIU Chenyu</u> , <u>XIAO Qingjie</u> , <u>SUN Bo</u> , <u>ZHOU Jiahai</u> , <u>CHAN Wai Chi</u> , <u>ZHANG Rong</u> , <u>CHEN Sheng</u> , "Structural and mechanistic basis of the high catalytic activity of monooxygenase Tet(X4) on tigecycline", <i>BMC Biology</i> , 19, 11 December 2021, doi: <a href="https://doi.org/10.1186/s12915-021-01199-7">https://doi.org/10.1186/s12915-021-01199-7</a> .  |
|                      | <u>CHAN Kwan Wai</u> , # <u>LIU Chenyu</u> , <u>WONG Ho-Yin</u> , <u>CHAN Wai-Chi</u> , <u>WONG Kwok-Yin</u> , <u>CHEN Sheng</u> , "Specific Amino Acid Substitutions in OXA-51-Type $\beta$ -Lactamase Enhance Catalytic Activity to a Level Comparable to Carbapenemase OXA-23 and OXA-24/40", <i>International Journal of Molecular Sciences</i> , 23(9), 19 April 2022, doi: <a href="https://doi.org/10.3390/ijms23094496">https://doi.org/10.3390/ijms23094496</a> .   |
| <b>LIU Xiaoxuan</b>  | # <u>YANG Xuemei</u> , # <u>LIU Xiaoxuan</u> , # <u>YANG Chen</u> , <u>CHAN Wai Chi</u> , <u>ZHANG Rong</u> , <u>CHEN Sheng</u> , "A Conjugative IncI1 Plasmid Carrying <i>erm(B)</i> and <i>bla</i> <sub>CTX-M-104</sub> That Mediates Resistance to Azithromycin and Cephalosporins", <i>Microbiology Spectrum</i> , 9(2), 08 September 2021, doi: <a href="https://doi.org/10.1128/Spectrum.00286-21">https://doi.org/10.1128/Spectrum.00286-21</a> .   |
|                      | # <u>YANG Xuemei</u> , <u>DONG Ning</u> , # <u>LIU Xiaoxuan</u> , # <u>YANG Chen</u> , # <u>YE Lianwei</u> , <u>CHAN Wai Chi</u> , <u>ZHANG Rong</u> , <u>CHEN Sheng</u> , "Co-conjugation of Virulence Plasmid and KPC Plasmid in a Clinical <i>Klebsiella pneumoniae</i> Strain", <i>Frontiers in Microbiology</i> , 12, 08 November 2021, doi: <a href="https://doi.org/10.3389/fmicb.2021.739461">https://doi.org/10.3389/fmicb.2021.739461</a> .  |
|                      | # <u>LIU Xiaoxuan</u> , # <u>YANG Xuemei</u> , # <u>YE Lianwei</u> , <u>CHAN Edward Wai-Chi</u> , <u>CHEN Sheng</u> , "Genetic Characterization of a Conjugative Plasmid That Encodes Azithromycin Resistance in <i>Enterobacteriaceae</i> ", <i>Microbiology Spectrum</i> , 26 April 2022, doi: <a href="https://doi.org/10.1128/spectrum.00788-22">https://doi.org/10.1128/spectrum.00788-22</a> .   |
| <b>MAO Axiu</b>      | # <u>MAO Axiu</u> , <u>GIRAUDET Claire Sophie Elly</u> , <u>LIU Kai</u> , <u>DE ALMEIDA NOLASCO Inês</u> , <u>XIE Zhiqin</u> , <u>XIE Zhixun</u> , <u>GAO Yue</u> , <u>THEOBALD James</u> , <u>BHATTA Devaki</u> , <u>STEWART Rebecca</u> , <u>MCELLIGOTT Alan Gerard</u> , "Automated identification of chicken distress vocalisations using deep learning models", <i>Journal of the Royal Society Interface</i> , 19(191), 29 June 2022, doi: <a href="https://doi.org/10.1098/rsif.2021.0921">https://doi.org/10.1098/rsif.2021.0921</a> .   |
|                      | # <u>MAO Axiu</u> , # <u>HUANG Endai</u> , <u>GAN Haiming</u> , <u>PARKES Rebecca Sarah Victoria</u> , <u>XU Weitao</u> , <u>LIU Kai</u> , "Cross-Modality Interaction Network for Equine Activity Recognition Using Imbalanced Multi-Modal Data", <i>Sensors</i> , 21(17), 29 August 2021, doi: <a href="https://doi.org/10.3390/s21175818">https://doi.org/10.3390/s21175818</a> .   |
|                      | <u>GAN Haiming</u> , <u>OU Mingqiang</u> , <u>LI Chengpeng</u> , <u>WANG Xiarui</u> , <u>GUO Jingfeng</u> , # <u>MAO Axiu</u> , <u>CEBALLOS Maria Camila</u> , <u>PARSONS Thomas D.</u> , <u>LIU Kai</u> , <u>XUE Yueju</u> , "Automated detection and analysis of piglet suckling behaviour using high-accuracy amodal instance segmentation", <i>Computers and Electronics in Agriculture</i> , 199, 28 June 2022, doi: <a href="https://doi.org/10.1016/j.compag.2022.107162">https://doi.org/10.1016/j.compag.2022.107162</a> .  |
|                      | # <u>HUANG Endai</u> , # <u>MAO Axiu</u> , <u>GAN Haiming</u> , <u>CEBALLOS Maria Camila</u> , <u>PARSONS Thomas D.</u> , <u>XUE Yueju</u> , <u>LIU Kai</u> , "Center clustering network improves piglet counting under occlusion", <i>Computers and Electronics in Agriculture</i> , 189, 03 September 2021, doi: <a href="https://doi.org/10.1016/j.compag.2021.106417">https://doi.org/10.1016/j.compag.2021.106417</a> .   |
| <b>NG Pok Him</b>    | # <u>ZHANG Ju</u> , <u>CHEN Juncai</u> , # <u>HUANG Qianjun</u> , <u>MACKINNON Erica Brett</u> , <u>NEKOU EI JAHROMI Omid Ali</u> , <u>LIU Hong</u> , <u>JIA Peng</u> , <u>WANG Jinjin</u> , <u>LI Na</u> , <u>HUANG Liqing</u> , <u>YANG Ying</u> , # <u>NG Pok Him</u> , <u>ST-HILAIRE Sophie Natasha</u> , "Copper/Carbon Core/Shell Nanoparticles: a potential material to control the fish pathogen <i>Saprolegnia parasitica</i> ", <i>Frontiers in Veterinary Science</i> , 8, 23 July 2021, doi: <a href="https://doi.org/10.3389/fvets.2021.689085">https://doi.org/10.3389/fvets.2021.689085</a> . |
| <b>NI Hongyuhang</b> | <u>PEI Yaxin</u> , <u>ZHAO Sijie</u> , <u>CHEN Xiang</u> , <u>ZHANG Jiran</u> , # <u>NI Hongyuhang</u> , <u>SUN Mengxiao</u> , <u>LIN Hui</u> , <u>LIU Xinyu</u> , <u>CHEN Hongge</u> , <u>YANG Sen</u> , " <i>Bacillus velezensis</i> EEAM 10B Strengthens Nutrient Metabolic Process in Black Soldier Fly Larvae ( <i>Hermetia illucens</i> ) via Changing   |

Section A: Publications of PhD Students

|                                    |  |
|------------------------------------|--|
|                                    | <p>Gut Microbiome and Metabolic Pathways", <i>Frontiers in Nutrition</i>, 9, 19 May 2022, doi: <a href="https://doi.org/10.3389/fnut.2022.880488">https://doi.org/10.3389/fnut.2022.880488</a>.</p> <p>#<a href="#">NI Hongyuhang</a>, KHAN Aman, YANG Zi, GONG Yuxin, ALI Gohar, LIU Pu, CHEN Fengjuan, LI Xiangkai, "Wood carbon electrode in microbial fuel cell enhances chromium reduction and bioelectricity generation", <i>Environmental Science and Pollution Research</i>, 29, 30 September 2021, pp 13709–13719, doi: <a href="https://doi.org/10.1007/s11356-021-16652-x">https://doi.org/10.1007/s11356-021-16652-x</a>.</p> <p>#<a href="#">WANG Han</a>, #<a href="#">XU Qi</a>, <a href="#">CHEN Kaichao</a>, <a href="#">CHAN Kwan Wai</a>, #<a href="#">YE Lianwei</a>, #<a href="#">YANG Xuemei</a>, #<a href="#">XIE Miaomiao</a>, LIU Xiaobo, #<a href="#">NI Hongyuhang</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "A Siderophore-Encoding Plasmid Encodes High-Level Virulence in <i>Escherichia coli</i>", <i>Microbiology Spectrum</i>, 10(3), 23 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.02528-21">https://doi.org/10.1128/spectrum.02528-21</a>.</p> <p>#<a href="#">NI Hongyuhang</a>, <a href="#">CHAN Kwan Wai</a>, <a href="#">CHENG Qipeng</a>, <a href="#">CHEN Kaichao</a>, #<a href="#">XIE Miaomiao</a>, #<a href="#">WANG Han</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "A novel clinical therapy to combat infections caused by Hypervirulent Carbapenem-Resistant <i>Klebsiella pneumoniae</i>", <i>Journal of Infection</i>, 85(2), 10 May 2022, pp 181-184, doi: <a href="https://doi.org/10.1016/j.jinf.2022.05.004">https://doi.org/10.1016/j.jinf.2022.05.004</a>.</p> <p>GONG Yuxin, WU Ying, KHAN Aman, SONG Peizhi, WANG Zhenfei, #<a href="#">NI Hongyuhang</a>, JI Jing, SALAMA El Sayed, LIU Pu, LI Xiangkai, "Improving selenium accumulation in broilers using <i>Escherichia coli</i> Nissle 1917 with surface-displayed selenite reductase SerV01", <i>Food &amp; Function</i>, 13(8), 15 March 2022, pp 4537-4550, doi: <a href="https://doi.org/10.1039/d2fo00206j">https://doi.org/10.1039/d2fo00206j</a>.</p> <p>LENG Xiaoyun, USMAN Muhammad, SALAMA El Sayed, #<a href="#">NI Hongyuhang</a>, ZHOU Tuoyu, JEON Byong-hun, LIU Pu, ZHANG Pengyun, LI Xiangkai, "Development of an innovative MFC-biosensor for real-time monitoring of anaerobic digestion for biogas production: Controlled substrate feeding strategy", <i>Journal of Environmental Chemical Engineering</i>, 9(6), 02 November 2021, doi: <a href="https://doi.org/10.1016/j.jece.2021.106703">https://doi.org/10.1016/j.jece.2021.106703</a>.</p> |
| <b>ROBLES MALAGAMBA Maria Jose</b> | <p>#<a href="#">ROBLES MALAGAMBA Maria Jose</a>, <a href="#">KOT Brian Chin Wing</a>, HERNANDEZ-MORA Gabriela, GRANADOS-ZAPATA Andres, GONZÁLEZ-BARRIENTOS Rocio, BARQUERO-CALVO Elias, CORDERO-CHAVARÍA Minor, SUÁREZ-ESQUIVEL Marcela, GUZMÁN-VERRI Caterina, PALACIOS-ALFARO Jose Davd, TIEN-SUNG Connie, MORENO Edgardo, "Pathological Studies and Postmortem Computed Tomography of Dolphins with Meningoencephalomyelitis and Osteoarthritis Caused by <i>Brucella ceti</i>", <i>Oceans</i>, 3(2), 09 May 2022, pp 189–203, doi: <a href="https://doi.org/https://doi.org/10.3390/oceans3020014">https://doi.org/https://doi.org/10.3390/oceans3020014</a>.</p>  |
| <b>TAN Lu</b>                      | <p>#<a href="#">ZHANG Yiwen</a>, <a href="#">YU Jinhan</a>, #<a href="#">TAN Lu</a>, #<a href="#">WANG Xingxing</a>, <a href="#">LI Runsheng</a>, <a href="#">KIM Dal Young</a>, "Complete genetic dissection and cell type-specific replication of old world alphaviruses, getah virus (GETV) and sagiyama virus (SAGV)", <i>Journal of Microbiology</i>, 59(11), 27 September 2021, pp 1044–1055, doi: <a href="https://doi.org/10.1007/s12275-021-1361-8">https://doi.org/10.1007/s12275-021-1361-8</a>.</p>  |
| <b>WAN Yingkun</b>                 | <p>#<a href="#">WAN Yingkun</a>, <a href="#">WANG Miaomiao</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "Membrane Transporters of the Major Facilitator Superfamily Are Essential for Long-Term Maintenance of Phenotypic Tolerance to Multiple Antibiotics in <i>E. coli</i>", <i>Microbiology Spectrum</i>, 9(3), 17 November 2021, doi: <a href="https://doi.org/10.1128/Spectrum.01846-21">https://doi.org/10.1128/Spectrum.01846-21</a>.</p> <p><a href="#">WANG Miaomiao</a>, <a href="#">CHAN Wai Chi</a>, #<a href="#">WAN Yingkun</a>, <a href="#">WONG Marcus Ho Yin</a>, <a href="#">CHEN Sheng</a>, "Active maintenance of proton motive force mediates starvation-induced bacterial antibiotic tolerance in <i>Escherichia coli</i>", <i>Communications Biology</i>, 4, 14 September 2021, doi: <a href="https://doi.org/10.1038/s42003-021-02612-1">https://doi.org/10.1038/s42003-021-02612-1</a>.</p>  |
| <b>WANG Han</b>                    | <p>#<a href="#">NI Hongyuhang</a>, <a href="#">CHAN Kwan Wai</a>, <a href="#">CHENG Qipeng</a>, <a href="#">CHEN Kaichao</a>, #<a href="#">XIE Miaomiao</a>, #<a href="#">WANG Han</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "A novel clinical therapy to combat infections caused by Hypervirulent Carbapenem-Resistant <i>Klebsiella pneumoniae</i>", <i>Journal of Infection</i>, 85(2), 10 May 2022, pp 181-184, doi: <a href="https://doi.org/10.1016/j.jinf.2022.05.004">https://doi.org/10.1016/j.jinf.2022.05.004</a>.</p> <p>#<a href="#">WANG Han</a>, #<a href="#">XU Qi</a>, <a href="#">CHEN Kaichao</a>, <a href="#">CHAN Kwan Wai</a>, #<a href="#">YE Lianwei</a>, #<a href="#">YANG Xuemei</a>, #<a href="#">XIE Miaomiao</a>, LIU Xiaobo, #<a href="#">NI Hongyuhang</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "A Siderophore-Encoding Plasmid Encodes High-Level Virulence in <i>Escherichia coli</i>", <i>Microbiology Spectrum</i>, 10(3), 23 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.02528-21">https://doi.org/10.1128/spectrum.02528-21</a>.</p>   |
| <b>WANG Xiuwan</b>                 | <p>BRUSSEL Kate Van, #<a href="#">WANG Xiuwan</a>, <a href="#">SHI Mang</a>, <a href="#">CARRAI Maura</a>, #<a href="#">FENG Shuo</a>, <a href="#">LI Jun</a>, <a href="#">HOLMES Edward C.</a>, <a href="#">BEATTY Julia Anne</a>, <a href="#">BARRS Vanessa Rosemary Duke</a>, "The enteric virome of cats with feline panleukopenia differs in abundance and diversity from healthy</p>   |

Section A: Publications of PhD Students

|                     |  |
|---------------------|--|
|                     | cats", <i>Transboundary and Emerging Diseases</i> , 29 June 2022, doi: <a href="https://doi.org/10.1111/tbed.14646">https://doi.org/10.1111/tbed.14646</a> .   |
| <b>XIE Miaomiao</b> | <a href="#">CHEN Kaichao</a> , <a href="#">#XIE Miaomiao</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , "Delineation of <i>ISEcp1</i> and IS26-Mediated Plasmid Fusion Processes by MinION Single-Molecule Long-Read Sequencing", <i>Frontiers in Microbiology</i> , 12, 07 February 2022, doi: <a href="https://doi.org/10.3389/fmicb.2021.796715">https://doi.org/10.3389/fmicb.2021.796715</a> .   |
|                     | <a href="#">#XIE Miaomiao</a> , <a href="#">CHEN Kaichao</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , "Synergistic Antimicrobial Effect of Colistin in Combination with Econazole against Multidrug-Resistant <i>Acinetobacter baumannii</i> and Its Persisters", <i>Microbiology Spectrum</i> , 25 April 2022, doi: <a href="https://doi.org/10.1128/spectrum.00937-22">https://doi.org/10.1128/spectrum.00937-22</a> .  |
|                     | <a href="#">#WANG Han</a> , <a href="#">#XU Qi</a> , <a href="#">CHEN Kaichao</a> , <a href="#">CHAN Kwan Wai</a> , <a href="#">#YE Lianwei</a> , <a href="#">#YANG Xuemei</a> , <a href="#">#XIE Miaomiao</a> , <a href="#">LIU Xiaobo</a> , <a href="#">#NI Hongyuhang</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , "A Siderophore-Encoding Plasmid Encodes High-Level Virulence in <i>Escherichia coli</i> ", <i>Microbiology Spectrum</i> , 10(3), 23 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.02528-21">https://doi.org/10.1128/spectrum.02528-21</a> .  |
|                     | <a href="#">LIU Congcong</a> , <a href="#">CHEN Kaichao</a> , <a href="#">WU Yuchen</a> , <a href="#">HUANG Ling</a> , <a href="#">FANG Yinfei</a> , <a href="#">LU Jiayue</a> , <a href="#">ZENG Yu</a> , <a href="#">#XIE Miaomiao</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">#CHEN Sheng</a> , <a href="#">ZHANG Rong</a> , "Epidemiological and genetic characteristics of clinical carbapenem-resistant <i>Acinetobacter baumannii</i> strains collected countrywide from hospital intensive care units (ICUs) in China", <i>Emerging Microbes &amp; Infections</i> , 11(1), 2022, pp 1730-1741, doi: <a href="https://doi.org/10.1080/22221751.2022.2093134">https://doi.org/10.1080/22221751.2022.2093134</a> . |
|                     | <a href="#">#NI Hongyuhang</a> , <a href="#">CHAN Kwan Wai</a> , <a href="#">CHENG Qipeng</a> , <a href="#">CHEN Kaichao</a> , <a href="#">#XIE Miaomiao</a> , <a href="#">#WANG Han</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , "A novel clinical therapy to combat infections caused by Hypervirulent Carbapenem-Resistant <i>Klebsiella pneumoniae</i> ", <i>Journal of Infection</i> , 85(2), 10 May 2022, pp 181-184, doi: <a href="https://doi.org/10.1016/j.jinf.2022.05.004">https://doi.org/10.1016/j.jinf.2022.05.004</a> .  |
|                     | <a href="#">CHEN Kaichao</a> , <a href="#">#YANG Chen</a> , <a href="#">DONG Ning</a> , <a href="#">#XIE Miaomiao</a> , <a href="#">#YE Lianwei</a> , <a href="#">CHAN Edward Wai-Chi</a> , <a href="#">#CHEN Sheng</a> , "Evolution of Ciprofloxacin Resistance-Encoding Genetic Elements in <i>Salmonella</i> (vol 5, e01234-20, 2020)", <i>mSystems</i> , 31 May 2022, doi: <a href="https://doi.org/10.1128/msystems.00449-22">https://doi.org/10.1128/msystems.00449-22</a> .   |
|                     | <a href="#">#XIE Miaomiao</a> , <a href="#">CHEN Kaichao</a> , <a href="#">DONG Ning</a> , <a href="#">#XU Qi</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">ZHANG Rong</a> , <a href="#">#CHEN Sheng</a> , "Phenotypic Changes Associated With <i>In Vivo</i> Evolution of Colistin Resistance in ST11 Carbapenem-Resistant <i>Klebsiella pneumoniae</i> ", <i>Frontiers in cellular and infection microbiology</i> , 12, 24 February 2022, doi: <a href="https://doi.org/10.3389/fcimb.2022.841748">https://doi.org/10.3389/fcimb.2022.841748</a> .  |
|                     | <a href="#">#XIE Miaomiao</a> , <a href="#">CHEN Kaichao</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">ZHANG Rong</a> , <a href="#">#CHEN Sheng</a> , "Characterisation of clinical carbapenem-resistant K1 <i>Klebsiella quasipneumoniae</i> subsp. <i>similipneumoniae</i> strains harbouring a virulence plasmid", <i>International Journal of Antimicrobial Agents</i> , 60(2), 24 June 2022, doi: <a href="https://doi.org/10.1016/j.ijantimicag.2022.106628">https://doi.org/10.1016/j.ijantimicag.2022.106628</a> .  |
|                     | <a href="#">#XIE Miaomiao</a> , <a href="#">CHEN Kaichao</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , "Identification and genetic characterization of two conjugative plasmids that confer azithromycin resistance in <i>Salmonella</i> ", <i>Emerging Microbes &amp; Infections</i> , 11(1), 11 April 2022, pp 1049-1057, doi: <a href="https://doi.org/10.1080/22221751.2022.2058420">https://doi.org/10.1080/22221751.2022.2058420</a> .   |
|                     | <a href="#">#YANG Xuemei</a> , <a href="#">#XIE Miaomiao</a> , <a href="#">#XU Qi</a> , <a href="#">#YE Lianwei</a> , <a href="#">#YANG Chen</a> , <a href="#">DONG Ning</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">ZHANG Rong</a> , <a href="#">CHEN Sheng</a> , "Transmission of pLVPK-like virulence plasmid in <i>Klebsiella pneumoniae</i> mediated by an IncI1 conjugative helper plasmid", <i>iScience</i> , 25(6), 18 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104428">https://doi.org/10.1016/j.isci.2022.104428</a> .   |
| <b>XU Qi</b>        | <a href="#">#XU Qi</a> , <a href="#">#YANG Xuemei</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">CHEN Sheng</a> , "The hypermucoviscosity of hypervirulent <i>K. pneumoniae</i> confers the ability to evade neutrophil-mediated phagocytosis", <i>Virulence</i> , 12(1), 02 August 2021, pp 2050-2059, doi: <a href="https://doi.org/10.1080/21505594.2021.1960101">https://doi.org/10.1080/21505594.2021.1960101</a> .   |
|                     | <a href="#">ZENG Ping</a> , <a href="#">CHENG Qipeng</a> , <a href="#">XU Jiangtao</a> , <a href="#">#XU Qi</a> , <a href="#">#XU Yating</a> , <a href="#">GAO Wei</a> , <a href="#">WONG Kwok-Yin</a> , <a href="#">CHAN Kin Fai</a> , <a href="#">CHEN Sheng</a> , <a href="#">YI Lanhua</a> , "Membrane-disruptive engineered peptide amphiphiles restrain the proliferation of penicillins and cephalosporins resistant <i>Vibrio alginolyticus</i> and <i>Vibrio parahaemolyticus</i> in instant jellyfish", <i>Food Control</i> , 135, 12 January 2022, doi: <a href="https://doi.org/10.1016/j.foodcont.2022.108827">https://doi.org/10.1016/j.foodcont.2022.108827</a> .   |

Section A: Publications of PhD Students

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|                    | <p>#XIE Miaomiao, CHEN Kaichao, DONG Ning, #XU Qi, CHAN Wai Chi, ZHANG Rong, #CHEN Sheng, "Phenotypic Changes Associated With <i>In Vivo</i> Evolution of Colistin Resistance in ST11 Carbapenem-Resistant <i>Klebsiella pneumoniae</i>", <i>Frontiers in cellular and infection microbiology</i>, 12, 24 February 2022, doi: <a href="https://doi.org/10.3389/fcimb.2022.841748">https://doi.org/10.3389/fcimb.2022.841748</a>.</p> <p>#WANG Han, #XU Qi, CHEN Kaichao, CHAN Kwan Wai, #YE Lianwei, #YANG Xuemei, #XIE Miaomiao, LIU Xiaobo, #NI Hongyuhang, CHAN Wai Chi, CHEN Sheng, "A Siderophore-Encoding Plasmid Encodes High-Level Virulence in <i>Escherichia coli</i>", <i>Microbiology Spectrum</i>, 10(3), 23 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.02528-21">https://doi.org/10.1128/spectrum.02528-21</a>.</p> <p>#YANG Xuemei, #XIE Miaomiao, #XU Qi, #YE Lianwei, #YANG Chen, DONG Ning, CHAN Wai Chi, ZHANG Rong, CHEN Sheng, "Transmission of pLVPK-like virulence plasmid in <i>Klebsiella pneumoniae</i> mediated by an Inc11 conjugative helper plasmid", <i>iScience</i>, 25(6), 18 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104428">https://doi.org/10.1016/j.isci.2022.104428</a>.</p>   |
| <b>XU Yating</b>   | <p>ZENG Ping, CHENG Qipeng, XU Jiangtao, #XU Qi, #XU Yating, GAO Wei, WONG Kwok-Yin, CHAN Kin Fai, CHEN Sheng, YI Lanhua, "Membrane-disruptive engineered peptide amphiphiles restrain the proliferation of penicillins and cephalosporins resistant <i>Vibrio alginolyticus</i> and <i>Vibrio parahaemolyticus</i> in instant jellyfish", <i>Food Control</i>, 135, 12 January 2022, doi: <a href="https://doi.org/10.1016/j.foodcont.2022.108827">https://doi.org/10.1016/j.foodcont.2022.108827</a>.</p>  |
| <b>YANG Chen</b>   | <p>XIAO Hui-Hui, YU Xueli, #YANG Chen, CHAN Chi On, LU Lu, CAO Sisi, WAN Siu Wai, LAN Ze Jun, MOK Daniel Kam Wah, CHEN Sheng, WONG Mansau, "Prenylated isoflavonoids-rich extract of erythrinae cortex exerted bone protective effects by modulating gut microbial compositions and metabolites in ovariectomized rats", <i>Nutrients</i>, 13(9), 25 August 2021, doi: <a href="https://doi.org/10.3390/nu13092943">https://doi.org/10.3390/nu13092943</a>.</p> <p>#YANG Xuemei, #LIU Xiaoxuan, #YANG Chen, CHAN Wai Chi, ZHANG Rong, CHEN Sheng, "A Conjugative Inc11 Plasmid Carrying <i>erm</i>(B) and <i>bla</i><sub>CTX-M-104</sub> That Mediates Resistance to Azithromycin and Cephalosporins", <i>Microbiology Spectrum</i>, 9(2), 08 September 2021, doi: <a href="https://doi.org/10.1128/Spectrum.00286-21">https://doi.org/10.1128/Spectrum.00286-21</a>.</p> <p>CHEN Kaichao, #YANG Chen, DONG Ning, #XIE Miaomiao, #YE Lianwei, CHAN Edward Wai-Chi, #CHEN Sheng, "Evolution of Ciprofloxacin Resistance-Encoding Genetic Elements in <i>Salmonella</i> (vol 5, e01234-20, 2020)", <i>mSystems</i>, 31 May 2022, doi: <a href="https://doi.org/10.1128/msystems.00449-22">https://doi.org/10.1128/msystems.00449-22</a>.</p> <p>#YANG Xuemei, DONG Ning, #LIU Xiaoxuan, #YANG Chen, #YE Lianwei, CHAN Wai Chi, ZHANG Rong, CHEN Sheng, "Co-conjugation of Virulence Plasmid and KPC Plasmid in a Clinical <i>Klebsiella pneumoniae</i> Strain", <i>Frontiers in Microbiology</i>, 12, 08 November 2021, doi: <a href="https://doi.org/10.3389/fmicb.2021.739461">https://doi.org/10.3389/fmicb.2021.739461</a>.</p> <p>WANG Miaomiao, CHAN Wai Chi, XU Chen, CHEN Kaichao, #YANG Chen, CHEN Sheng, "Econazole as adjuvant to conventional antibiotics is able to eradicate starvation-induced tolerant bacteria by causing proton motive force dissipation", <i>Journal of Antimicrobial Chemotherapy</i>, 77(2), 08 November 2021, pp 425–432, doi: <a href="https://doi.org/10.1093/jac/dkab384">https://doi.org/10.1093/jac/dkab384</a>.</p> <p>#YANG Xuemei, #XIE Miaomiao, #XU Qi, #YE Lianwei, #YANG Chen, DONG Ning, CHAN Wai Chi, ZHANG Rong, CHEN Sheng, "Transmission of pLVPK-like virulence plasmid in <i>Klebsiella pneumoniae</i> mediated by an Inc11 conjugative helper plasmid", <i>iScience</i>, 25(6), 18 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104428">https://doi.org/10.1016/j.isci.2022.104428</a>.</p> |
| <b>YANG Xuemei</b> | <p>ZHANG Yanyan, #YANG Xuemei, HUANG Ling, ZHANG Rong, "Whole-genome analysis and description of an IMP-8-producing <i>Ochrobactrum anthropi</i>", <i>Journal of Global Antimicrobial Resistance</i>, 29, 26 March 2022, pp 275-277, doi: <a href="https://doi.org/10.1016/j.jgar.2022.03.016">https://doi.org/10.1016/j.jgar.2022.03.016</a>.</p> <p>#XU Qi, #YANG Xuemei, CHAN Wai Chi, CHEN Sheng, "The hypermucoviscosity of hypervirulent <i>K. pneumoniae</i> confers the ability to evade neutrophil-mediated phagocytosis", <i>Virulence</i>, 12(1), 02 August 2021, pp 2050-2059, doi: <a href="https://doi.org/10.1080/21505594.2021.1960101">https://doi.org/10.1080/21505594.2021.1960101</a>.</p> <p>XU Chen, DONG Ning, CHEN Kaichao, #YANG Xuemei, ZENG Ping, #HOU Changshun, CHI CHAN Edward Wai, YAO Xi, CHEN Sheng, "Bactericidal, anti-biofilm, and anti-virulence activity of vitamin C against carbapenem-resistant hypervirulent <i>Klebsiella pneumoniae</i>", <i>iScience</i>, 25(3), 08 February 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.103894">https://doi.org/10.1016/j.isci.2022.103894</a>.</p>  |

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|                   | <p>#<a href="#">YANG Xuemei</a>, #<a href="#">LIU Xiaoxuan</a>, #<a href="#">YANG Chen</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">ZHANG Rong</a>, <a href="#">CHEN Sheng</a>, "A Conjugative Inc1 Plasmid Carrying <i>erm</i>(B) and <i>bla</i><sub>CTX-M-104</sub> That Mediates Resistance to Azithromycin and Cephalosporins", <i>Microbiology Spectrum</i>, 9(2), 08 September 2021, doi: <a href="https://doi.org/10.1128/Spectrum.00286-21">https://doi.org/10.1128/Spectrum.00286-21</a>.</p>  |
|                   | <p>#<a href="#">WANG Han</a>, #<a href="#">XU Qi</a>, <a href="#">CHEN Kaichao</a>, <a href="#">CHAN Kwan Wai</a>, #<a href="#">YE Lianwei</a>, #<a href="#">YANG Xuemei</a>, #<a href="#">XIE Miaomiao</a>, <a href="#">LIU Xiaobo</a>, #<a href="#">NI Hongyuhang</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "A Siderophore-Encoding Plasmid Encodes High-Level Virulence in <i>Escherichia coli</i>", <i>Microbiology Spectrum</i>, 10(3), 23 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.02528-21">https://doi.org/10.1128/spectrum.02528-21</a>.</p>          |
|                   | <p><a href="#">WU Yuchen</a>, #<a href="#">YANG Xuemei</a>, <a href="#">LIU Congcong</a>, <a href="#">ZHANG Yanyan</a>, #<a href="#">CHEUNG Yan Chu</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, <a href="#">ZHANG Rong</a>, "Identification of a KPC Variant Conferring Resistance to Ceftazidime-Avibactam from ST11 Carbapenem-Resistant <i>Klebsiella pneumoniae</i> Strains", <i>Microbiology Spectrum</i>, 10(2), March 2022, doi: <a href="https://doi.org/10.1128/spectrum.02655-21">https://doi.org/10.1128/spectrum.02655-21</a>.</p>                                   |
|                   | <p>#<a href="#">YANG Xuemei</a>, <a href="#">SUN Qiaoling</a>, <a href="#">LI Jiaping</a>, <a href="#">JIANG Yu</a>, <a href="#">LI Yi</a>, <a href="#">LIN Jianping</a>, <a href="#">CHEN Kaichao</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">ZHANG Rong</a>, #<a href="#">CHEN Sheng</a>, "Molecular epidemiology of carbapenem-resistant hypervirulent <i>Klebsiella pneumoniae</i> in China", <i>Emerging Microbes and Infections</i>, 11(1), 19 March 2022, pp 841-849, doi: <a href="https://doi.org/10.1080/22221751.2022.2049458">https://doi.org/10.1080/22221751.2022.2049458</a>.</p> |
|                   | <p>#<a href="#">YANG Xuemei</a>, <a href="#">DONG Ning</a>, #<a href="#">LIU Xiaoxuan</a>, #<a href="#">YANG Chen</a>, #<a href="#">YE Lianwei</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">ZHANG Rong</a>, <a href="#">CHEN Sheng</a>, "Co-conjugation of Virulence Plasmid and KPC Plasmid in a Clinical <i>Klebsiella pneumoniae</i> Strain", <i>Frontiers in Microbiology</i>, 12, 08 November 2021, doi: <a href="https://doi.org/10.3389/fmicb.2021.739461">https://doi.org/10.3389/fmicb.2021.739461</a>.</p>  |
|                   | <p>#<a href="#">YANG Xuemei</a>, <a href="#">DONG Ning</a>, <a href="#">CHEN Sheng</a>, "Advanced Genetic Methodologies in Tracking Evolution and Spread of SARS-CoV-2", <i>Methods in molecular biology (Clifton, N.J.)</i>, 2452, 14 May 2022, pp 33-43, doi: <a href="https://doi.org/10.1007/978-1-0716-2111-0_3">https://doi.org/10.1007/978-1-0716-2111-0_3</a>.</p>  |
|                   | <p><a href="#">ZHANG Yanyan</a>, <a href="#">GU Danxia</a>, #<a href="#">YANG Xuemei</a>, <a href="#">WU Yuchen</a>, <a href="#">LIU Congcong</a>, <a href="#">SHEN Zhangqi</a>, <a href="#">ZHANG Rong</a>, "Emergence and Genomic Characterization of a KPC-2-, NDM-1-, and IMP-4-Producing <i>Klebsiella michiganensis</i> Isolate", <i>Frontiers in Microbiology</i>, 12, 06 January 2022, doi: <a href="https://doi.org/10.3389/fmicb.2021.762509">https://doi.org/10.3389/fmicb.2021.762509</a>.</p>  |
|                   | <p>#<a href="#">LIU Xiaoxuan</a>, #<a href="#">YANG Xuemei</a>, #<a href="#">YE Lianwei</a>, <a href="#">CHAN Edward Wai-Chi</a>, <a href="#">CHEN Sheng</a>, "Genetic Characterization of a Conjugative Plasmid That Encodes Azithromycin Resistance in <i>Enterobacteriaceae</i>", <i>Microbiology Spectrum</i>, 26 April 2022, doi: <a href="https://doi.org/10.1128/spectrum.00788-22">https://doi.org/10.1128/spectrum.00788-22</a>.</p>   |
|                   | <p><a href="#">DONG Ning</a>, #<a href="#">YANG Xuemei</a>, <a href="#">CHAN Edward Wai-Chi</a>, <a href="#">ZHANG Rong</a>, <a href="#">CHEN Sheng</a>, "<i>Klebsiella species</i>: Taxonomy, hypervirulence and multidrug resistance", <i>EBioMedicine</i>, 79, 08 April 2022, doi: <a href="https://doi.org/10.1016/j.ebiom.2022.103998">https://doi.org/10.1016/j.ebiom.2022.103998</a>.</p>  |
|                   | <p>#<a href="#">YANG Xuemei</a>, #<a href="#">XIE Miaomiao</a>, #<a href="#">XU Qi</a>, #<a href="#">YE Lianwei</a>, #<a href="#">YANG Chen</a>, <a href="#">DONG Ning</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">ZHANG Rong</a>, <a href="#">CHEN Sheng</a>, "Transmission of pLVPK-like virulence plasmid in <i>Klebsiella pneumoniae</i> mediated by an Inc1 conjugative helper plasmid", <i>iScience</i>, 25(6), 18 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104428">https://doi.org/10.1016/j.isci.2022.104428</a>.</p>   |
|                   | <p><a href="#">WEI Ruohan</a>, #<a href="#">YANG Xuemei</a>, <a href="#">LIU Han</a>, <a href="#">WEI Tongyao</a>, <a href="#">CHEN Sheng</a>, <a href="#">LI Xuechen</a>, "Synthetic Pseudaminic-Acid-Based Antibacterial Vaccine Confers Effective Protection against <i>Acinetobacter baumannii</i> Infection", <i>ACS Central Science</i>, 7(9), 08 September 2021, pp 1535-1542, doi: <a href="https://doi.org/10.1021/acscentsci.1c00656">https://doi.org/10.1021/acscentsci.1c00656</a>.</p>   |
| <b>YE Lianwei</b> | <p>#<a href="#">WANG Han</a>, #<a href="#">XU Qi</a>, <a href="#">CHEN Kaichao</a>, <a href="#">CHAN Kwan Wai</a>, #<a href="#">YE Lianwei</a>, #<a href="#">YANG Xuemei</a>, #<a href="#">XIE Miaomiao</a>, <a href="#">LIU Xiaobo</a>, #<a href="#">NI Hongyuhang</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">CHEN Sheng</a>, "A Siderophore-Encoding Plasmid Encodes High-Level Virulence in <i>Escherichia coli</i>", <i>Microbiology Spectrum</i>, 10(3), 23 May 2022, doi: <a href="https://doi.org/10.1128/spectrum.02528-21">https://doi.org/10.1128/spectrum.02528-21</a>.</p>          |
|                   | <p><a href="#">CHEN Kaichao</a>, #<a href="#">YANG Chen</a>, <a href="#">DONG Ning</a>, #<a href="#">XIE Miaomiao</a>, #<a href="#">YE Lianwei</a>, <a href="#">CHAN Edward Wai-Chi</a>, #<a href="#">CHEN Sheng</a>, "Evolution of Ciprofloxacin Resistance-Encoding Genetic Elements in <i>Salmonella</i> (vol 5, e01234-20, 2020)", <i>mSystems</i>, 31 May 2022, doi: <a href="https://doi.org/10.1128/msystems.00449-22">https://doi.org/10.1128/msystems.00449-22</a>.</p>  |
|                   | <p>#<a href="#">YANG Xuemei</a>, <a href="#">DONG Ning</a>, #<a href="#">LIU Xiaoxuan</a>, #<a href="#">YANG Chen</a>, #<a href="#">YE Lianwei</a>, <a href="#">CHAN Wai Chi</a>, <a href="#">ZHANG Rong</a>, <a href="#">CHEN Sheng</a>, "Co-conjugation of Virulence Plasmid and KPC Plasmid in a Clinical <i>Klebsiella pneumoniae</i> Strain", <i>Frontiers in Microbiology</i>, 12, 08 November 2021, doi: <a href="https://doi.org/10.3389/fmicb.2021.739461">https://doi.org/10.3389/fmicb.2021.739461</a>.</p>  |

Section A: Publications of PhD Students

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|-----------------------------------|---|
|                                   | <p>#YE Lianwei, DONG Ning, XIONG Wenguang, LI Jun, LI Runsheng, #HENG Heng, CHAN Edward Wai-Chi, CHEN Sheng, "High-Resolution Metagenomics of Human Gut Microbiota Generated by Nanopore and Illumina Hybrid Metagenome Assembly", <i>Frontiers in Microbiology</i>, 13, 12 May 2022, doi: <a href="https://doi.org/10.3389/fmicb.2022.801587">https://doi.org/10.3389/fmicb.2022.801587</a>.</p>   |
|                                   | <p>#LIU Xiaoxuan, #YANG Xuemei, #YE Lianwei, CHAN Edward Wai-Chi, CHEN Sheng, "Genetic Characterization of a Conjugative Plasmid That Encodes Azithromycin Resistance in <i>Enterobacteriaceae</i>", <i>Microbiology Spectrum</i>, 26 April 2022, doi: <a href="https://doi.org/10.1128/spectrum.00788-22">https://doi.org/10.1128/spectrum.00788-22</a>.</p>   |
|                                   | <p>YANG Ling, DONG Ning, XU Chen, #YE Lianwei, CHEN Sheng, "Emergence of ST63 Pandrug-Resistant <i>Acinetobacter pittii</i> Isolated From an AECOPD Patient in China", <i>Frontiers in cellular and infection microbiology</i>, 11, 14 October 2021, doi: <a href="https://doi.org/10.3389/fcimb.2021.739211">https://doi.org/10.3389/fcimb.2021.739211</a>.</p>  |
|                                   | <p>#YANG Xuemei, #XIE Miaomiao, #XU Qi, #YE Lianwei, #YANG Chen, DONG Ning, CHAN Wai Chi, ZHANG Rong, CHEN Sheng, "Transmission of pLVPK-like virulence plasmid in <i>Klebsiella pneumoniae</i> mediated by an IncI1 conjugative helper plasmid", <i>iScience</i>, 25(6), 18 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104428">https://doi.org/10.1016/j.isci.2022.104428</a>.</p>  |
|                                   | <p>LIU Xiaobo, LI Ruichao, DONG Ning, #YE Lianwei, CHAN Wai Chi, CHEN Sheng, "Complete Genetic Analysis of Plasmids Carried by Two Nonclonal <i>bla</i><sub>NDM-5</sub>- and <i>mcr-1</i>-Bearing <i>Escherichia coli</i> Strains: Insight into Plasmid Transmission among Foodborne Bacteria", <i>Microbiology Spectrum</i>, 9(2), 01 September 2021, doi: <a href="https://doi.org/10.1128/Spectrum.00217-21">https://doi.org/10.1128/Spectrum.00217-21</a>.</p>                                    |
|                                   | <p>CHENG Qipeng, ZHENG Zhiwei, #YE Lianwei, CHEN Sheng, "Identification of a novel metallo-<math>\beta</math>-lactamase, VAM-1, in a foodborne <i>Vibrio alginolyticus</i> isolate from China", <i>Antimicrobial Agents and Chemotherapy</i>, 65(11), 18 October 2021, doi: <a href="https://doi.org/10.1128/AAC.01129-21">https://doi.org/10.1128/AAC.01129-21</a>.</p>  |
| <b>ZHANG Ju</b>                   | <p>#ZHANG Ju, CHEN Juncai, #HUANG Qianjun, MACKINNON Erica Brett, NEKOU EI JAHROMI Omid Ali, LIU Hong, JIA Peng, WANG Jinjin, LI Na, HUANG Liqing, YANG Ying, #NG Pok Him, ST-HILAIRE Sophie Natasha, "Copper/Carbon Core/Shell Nanoparticles: a potential material to control the fish pathogen <i>Saprolegnia parasitica</i>", <i>Frontiers in Veterinary Science</i>, 8, 23 July 2021, doi: <a href="https://doi.org/10.3389/fvets.2021.689085">https://doi.org/10.3389/fvets.2021.689085</a>.</p> |
| <b>ZHANG Yiwen</b>                | <p>#ZHANG Yiwen, YU Jinhan, #TAN Lu, #WANG Xingxing, LI Runsheng, KIM Dal Young, "Complete genetic dissection and cell type-specific replication of old world alphaviruses, getah virus (GETV) and sagiyama virus (SAGV)", <i>Journal of Microbiology</i>, 59(11), 27 September 2021, pp 1044–1055, doi: <a href="https://doi.org/10.1007/s12275-021-1361-8">https://doi.org/10.1007/s12275-021-1361-8</a>.</p>   |
| <b>Conference papers</b>          |   |
| <b>MAO Axiu</b>                   | <p>#MAO Axiu, #HUANG Endai, XU Weitao, LIU Kai, "Cross-modality Interaction Network for Equine Activity Recognition Using Time-Series Motion Data", <i>Animal Environment and Welfare - Proceedings of International Symposium</i>, Chongqing, China, 20-23 October 2021, pp 269-276.</p>   |
|                                   | <p>#HUANG Endai, #MAO Axiu, CEBALLOS Maria Camila, PARSONS Thomas D., LIU Kai, "Capacity Limit of Deep Learning Methods on Scenarios of Pigs in Farrowing Pen under Occlusion", <i>2021 ASABE Annual International Virtual Meeting</i>, Virtual, 12-16 July 2021, pp 1917-1924, (ISBN: 9781713833536).</p>  |
|                                   | <p>#HUANG Endai, #MAO Axiu, GAN Haiming, LIU Kai, "A Key Frame Selection Method for Creating Deep Learning Training Set in Animal Research Involving Time-Series Video Data", <i>Animal Environment and Welfare - Proceedings of International Symposium</i>, Chongqing, China, 20-23 October 2021, pp 287-294.</p>   |
| <b>DEPARTMENT OF NEUROSCIENCE</b> |   |
| <b>Journal publications</b>       |   |
| <b>BUCK Alexa Nadezhda</b>        | <p>#BUCK Alexa Nadezhda, ROSSKOTHEN-KUHL Nicole, SCHNUPP Jan, "Sensitivity to Interaural Time Differences in the Inferior Colliculus of Cochlear Implanted Rats With or Without Hearing Experience", <i>Hearing Research</i>, 408, 09 July 2021, doi: <a href="https://doi.org/10.1016/j.heares.2021.108305">https://doi.org/10.1016/j.heares.2021.108305</a>.</p>  |

Section A: Publications of PhD Students

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| <b>CAPPOTTO Drew</b>     | #CAPPOTTO Drew, <u>KANG Hi Jee</u> , <u>LI Kongyan</u> , MELLONI Lucia, <u>SCHNUPP Jan</u> , <u>AUKSZTULEWICZ Ryszard</u> , "Simultaneous mnemonic and predictive representations in the auditory cortex", <i>Current Biology</i> , 32(11), 28 April 2022, pp 2548-2555.e5, doi: <a href="https://doi.org/10.1016/j.cub.2022.04.022">https://doi.org/10.1016/j.cub.2022.04.022</a> .   |
| <b>HE Bing</b>           | #HONG Ying, <u>JIN Lihan</u> , #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, <u>LEE Youngjin</u> , <u>KHOO Bee Luan</u> , <u>YANG Zhengbao</u> , "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i> , 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a> .<br>#THAKUR Abhimanyu, <u>XU Chen</u> , #LI Wing Kar, <u>QIU Guangyu</u> , #HE Bing, NG Siu Pang, <u>WU Lawrence</u> , <u>LEE Youngjin</u> , "In vivo liquid biopsy for glioblastoma malignancy by the AFM and LSPR based sensing of exosomal CD44 and CD133 in a mouse model", <i>Biosensors and Bioelectronics</i> , 191, 02 July 2021, doi: <a href="https://doi.org/10.1016/j.bios.2021.113476">https://doi.org/10.1016/j.bios.2021.113476</a> .<br>#LIU Linlin, <u>THAKUR Abhimanyu</u> , #LI Wing Kar, <u>QIU Guangyu</u> , #YANG Tian, #HE Bing, <u>LEE Youngjin</u> , <u>WU Lawrence</u> , "Site specific biotinylated antibody functionalized Ag@AuNIs LSPR biosensor for the ultrasensitive detection of exosomal MCT4, a glioblastoma progression biomarker", <i>Chemical Engineering Journal</i> , 446(Part 4), 06 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137383">https://doi.org/10.1016/j.cej.2022.137383</a> . |
| <b>LI Huanhuan</b>       | <u>JIANG Hehai</u> , #GUO Anni, <u>CHIU Arthur</u> , #LI Huanhuan, LAI Cora Sau Wan, <u>LAU Chun Yue Geoffrey</u> , "Target-specific control of piriform cortical output via distinct inhibitory circuits", <i>FASEB Journal</i> , 35(10), 26 September 2021, doi: <a href="https://doi.org/10.1096/fj.202100757R">https://doi.org/10.1096/fj.202100757R</a> .   |
| <b>LI Jing</b>           | <u>SUN Wenjian</u> , <u>TANG Peng</u> , #LIANG Ye, #LI Jing, <u>FENG Jingyu</u> , <u>ZHANG Nan</u> , <u>LU Danyi</u> , <u>HE Jufang</u> , <u>CHEN Xi</u> , "The anterior cingulate cortex directly enhances auditory cortical responses in air-puffing-facilitated flight behavior", <i>Cell Reports</i> , 38(10), 08 March 2022, doi: <a href="https://doi.org/10.1016/j.celrep.2022.110506">https://doi.org/10.1016/j.celrep.2022.110506</a> .   |
| <b>LI Xuejun</b>         | <u>DONG Rui</u> , #LI Xuejun, <u>LAI Kwok On</u> , "Activity and Function of the PRMT8 Protein Arginine Methyltransferase in Neurons", <i>Life</i> , 11(11), 24 October 2021, doi: <a href="https://doi.org/10.3390/life11111132">https://doi.org/10.3390/life11111132</a> .   |
| <b>PAK Sojeong</b>       | #PAK Sojeong, <u>CHOI Gona</u> , <u>ROY Jaydeep</u> , <u>POON Chi Him</u> , <u>LEE Jinho</u> , <u>CHO Dajin</u> , <u>LEE Minseok</u> , <u>LIM Lee Wei</u> , <u>BAO Shaowen</u> , <u>YANG Sunggu</u> , <u>YANG Sungchil</u> , "Altered synaptic plasticity of the longitudinal dentate gyrus network in noise-induced anxiety", <i>iScience</i> , 06 May 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.104364">https://doi.org/10.1016/j.isci.2022.104364</a> .   |
| <b>XU Yijun</b>          | #XU Yijun, <u>AU Ngan Pan</u> , <u>MA Chi Him Eddie</u> , "Functional and Phenotypic Diversity of Microglia: Implication for Microglia-Based Therapies for Alzheimer's Disease", <i>Frontiers in Aging Neuroscience</i> , 14, 26 May 2022, doi: <a href="https://doi.org/10.3389/fnagi.2022.896852">https://doi.org/10.3389/fnagi.2022.896852</a> .  |
| <b>YANG Tian</b>         | #HONG Ying, <u>JIN Lihan</u> , #WANG Biao, #LIAO Junchen, #HE Bing, #YANG Tian, #LONG Zhihe, #LI Pengyu, #ZHANG Zhuomin, #LIU Shiyuan, <u>LEE Youngjin</u> , <u>KHOO Bee Luan</u> , <u>YANG Zhengbao</u> , "A Wood-templated Unidirectional Piezoceramic Composite for Transmuscular Ultrasonic Wireless Power Transfer", <i>Energy and Environmental Science</i> , 14(12), 04 November 2021, pp 6574-6585, doi: <a href="https://doi.org/10.1039/D1EE02353E">https://doi.org/10.1039/D1EE02353E</a> .<br>#LIU Linlin, <u>THAKUR Abhimanyu</u> , #LI Wing Kar, <u>QIU Guangyu</u> , #YANG Tian, #HE Bing, <u>LEE Youngjin</u> , <u>WU Lawrence</u> , "Site specific biotinylated antibody functionalized Ag@AuNIs LSPR biosensor for the ultrasensitive detection of exosomal MCT4, a glioblastoma progression biomarker", <i>Chemical Engineering Journal</i> , 446(Part 4), 06 June 2022, doi: <a href="https://doi.org/10.1016/j.cej.2022.137383">https://doi.org/10.1016/j.cej.2022.137383</a> .   |
| <b>ZEESHAN Muhammad</b>  | #ZEESHAN Muhammad, <u>ZANEB Hafsa</u> , <u>MASOOD Saima</u> , <u>ASHRAF Saima</u> , <u>KHAN Imad</u> , <u>FASEEH-UR-REHMAN Hafiz</u> , <u>DIN Salahud</u> , #HAYAT Khizar, "Morphological Modulation of Broiler Organs in Response to an Organic Acid-Phytogen Composite in Healthy Broilers", <i>Agriculture (Switzerland)</i> , 12(6), 30 May 2022, doi: <a href="https://doi.org/10.3390/agriculture12060791">https://doi.org/10.3390/agriculture12060791</a> .   |
| <b>Conference papers</b> |  |
| <b>PAK Sojeong</b>       | #PAK Sojeong, <u>YANG Sungchil</u> , <u>CHO Dajin</u> , "Dysfunctional longitudinal dentate gyrus network in hearing loss-induced anxiety", <i>50th Annual Meeting of the Society for Neuroscience (SfN21)</i> , Virtual, 08-11 November 2021.   |

Section A: Publications of PhD Students

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|---|--|
| <b>All other outputs</b>  |  |
| <b>LUO Dan</b>  | # <a href="#">LUO Dan</a> , <i>Decoding and Prediction of Sound Sequences in the Neocortex</i> , PhD Thesis, Department of Neuroscience, City University of Hong Kong, Hong Kong, PRC, 11 February 2022.   |
| <b>DEPARTMENT OF VETERINARY CLINICAL SCIENCES</b>                   |  |
| <b>Journal publications</b>   |  |
| <b>BUKHARI Syed Saad UI Hassan</b>                                  | # <a href="#">BUKHARI Syed Saad UI Hassan</a> , <a href="#">ROSANOWSKI Sarah Margaret</a> , <a href="#">MCELLIGOTT Alan Gerard</a> , <a href="#">PARKES Rebecca Sarah Victoria</a> , "Welfare concerns for mounted load carrying by working donkeys in Pakistan", <i>Frontiers in Veterinary Science</i> , 9, 27 May 2022, doi: <a href="https://doi.org/10.3389/fvets.2022.886020">https://doi.org/10.3389/fvets.2022.886020</a> .  |
| <b>Conference papers</b>  |  |
| <b>BUKHARI Syed Saad UI Hassan</b>                                  | # <a href="#">BUKHARI Syed Saad UI Hassan</a> , <a href="#">PARKES Rebecca Sarah Victoria</a> , "Quantification of basic stride parameters of walking donkeys", <i>Comparative Exercise Physiology</i> , Uppsala, Sweden, 26 June - 01 July 2022, pp S63.  |
|   | # <a href="#">BUKHARI Syed Saad UI Hassan</a> , <a href="#">MCELLIGOTT Alan Gerard</a> , <a href="#">PARKES Rebecca Sarah Victoria</a> , "Impact of Mounted Loads on Welfare of Working Equids", <i>ISAE 2021 - Proceedings of the 54<sup>th</sup> Congress of ISAE - 'Developing animal behaviour and welfare: Real solutions for real problems'</i> , Online, 02-06 August 2021, pp 119.   |
| <b>JOCKEY CLUB COLLEGE OF VETERINARY MEDICINE AND LIFE SCIENCES</b> |  |
| <b>Scholarly books, monographs and chapters</b>                     |  |
| <b>HUANG Qianjun</b>  | # <a href="#">HUANG Qianjun</a> , <a href="#">HO Jeremy</a> , <a href="#">JIA Peng</a> , <a href="#">JI Fan</a> , <a href="#">FOK Eunice</a> , <a href="#">TSOI Jenny</a> , <a href="#">HO Abigail</a> , <a href="#">SHI Xiujie</a> , <a href="#">YUEN Carlton</a> , <a href="#">LAN Wensheng</a> , <a href="#">BI Denise</a> , <a href="#">ZHENG Xiaocong</a> , <a href="#">WANG Jinjin</a> , <a href="#">WEN Zhiqing</a> , <a href="#">LIU Ying</a> , <a href="#">YU Li</a> , <i>鱼类疾病诊断和防治图谱——细菌·病毒卷</i> , 中国农业出版社, ISBN: 9787109286528, February 2022.  |
| <b>KIM Younjung</b>   | # <a href="#">KIM Younjung</a> , <a href="#">CONAN Anne Yvonne</a> , <a href="#">BREMANG Andrew</a> , <a href="#">TANG Hao</a> , <a href="#">OH Yooni</a> , <a href="#">PFEIFFER Dirk Udo</a> , <i>Guidelines for African swine fever (ASF) prevention and control in smallholder pig farming in Asia - Clean chain approach for African swine fever in smallholder settings</i> , Food and Agriculture Organization of the United Nations, ISBN: 978-92-5-135933-4, Bangkok, 2022, 56 p.  |
| <b>Journal publications</b>   |  |
| <b>BENNETT Adam Neil</b>  | # <a href="#">HE Qian</a> , # <a href="#">BENNETT Adam Neil</a> , <a href="#">FAN Beifang</a> , <a href="#">HAN Xue</a> , # <a href="#">LIU Jundong</a> , <a href="#">WU Chun Hei</a> , # <a href="#">HUANG Ruixuan</a> , <a href="#">CHAN Juliana Chung Ngor</a> , <a href="#">CHAN Kei Hang Katie</a> , "Assessment of Bidirectional Relationships between Leisure Sedentary Behaviors and Neuropsychiatric Disorders: A Two-Sample Mendelian Randomization Study", <i>Genes</i> , 13(6), 27 May 2022, doi: <a href="https://doi.org/10.3390/genes13060962">https://doi.org/10.3390/genes13060962</a> .  |
| <b>CAO Rui</b>  | # <a href="#">CAO Rui</a> , <a href="#">LI Jun</a> , <a href="#">KOYABU Daisuke</a> , "A bibliometric analysis of research trends in bat echolocation studies between 1970 and 2021", <i>Ecological Informatics</i> , 69, 27 April 2022, doi: <a href="https://doi.org/10.1016/j.ecoinf.2022.101654">https://doi.org/10.1016/j.ecoinf.2022.101654</a> .  |
| <b>CHEN Sheng</b>   | <a href="#">LIU Congcong</a> , <a href="#">CHEN Kaichao</a> , <a href="#">WU Yuchen</a> , <a href="#">HUANG Ling</a> , <a href="#">FANG Yinfei</a> , <a href="#">LU Jiayue</a> , <a href="#">ZENG Yu</a> , # <a href="#">XIE Miaomiao</a> , <a href="#">CHAN Wai Chi</a> , # <a href="#">CHEN Sheng</a> , <a href="#">ZHANG Rong</a> , "Epidemiological and genetic characteristics of clinical carbapenem-resistant <i>Acinetobacter baumannii</i> strains collected countrywide from hospital intensive care units (ICUs) in China", <i>Emerging Microbes &amp; Infections</i> , 11(1), 2022, pp 1730-1741, doi: <a href="https://doi.org/10.1080/22221751.2022.2093134">https://doi.org/10.1080/22221751.2022.2093134</a> . |
|   | # <a href="#">YANG Xuemei</a> , <a href="#">SUN Qiaoling</a> , <a href="#">LI Jiaping</a> , <a href="#">JIANG Yu</a> , <a href="#">LI Yi</a> , <a href="#">LIN Jianping</a> , <a href="#">CHEN Kaichao</a> , <a href="#">CHAN Wai Chi</a> , <a href="#">ZHANG Rong</a> , # <a href="#">CHEN Sheng</a> , "Molecular epidemiology of carbapenem-resistant hypervirulent <i>Klebsiella pneumoniae</i> in China", <i>Emerging Microbes and Infections</i> , 11(1), 19 March 2022, pp 841-849, doi: <a href="https://doi.org/10.1080/22221751.2022.2049458">https://doi.org/10.1080/22221751.2022.2049458</a> .   |
|   | <a href="#">CHEN Kaichao</a> , # <a href="#">YANG Chen</a> , <a href="#">DONG Ning</a> , # <a href="#">XIE Miaomiao</a> , # <a href="#">YE Lianwei</a> , <a href="#">CHAN Edward Wai-Chi</a> , # <a href="#">CHEN Sheng</a> , "Evolution of Ciprofloxacin Resistance-Encoding Genetic Elements in <i>Salmonella</i> (vol 5, e01234-20, 2020)", <i>mSystems</i> , 31 May 2022, doi: <a href="https://doi.org/10.1128/msystems.00449-22">https://doi.org/10.1128/msystems.00449-22</a> .   |



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|--------------------------------|--|
|                                | <p>#XIE Miaomiao, CHEN Kaichao, DONG Ning, #XU Qi, CHAN Wai Chi, ZHANG Rong, #CHEN Sheng, "Phenotypic Changes Associated With <i>In Vivo</i> Evolution of Colistin Resistance in ST11 Carbapenem-Resistant <i>Klebsiella pneumoniae</i>", <i>Frontiers in cellular and infection microbiology</i>, 12, 24 February 2022, doi: <a href="https://doi.org/10.3389/fcimb.2022.841748">https://doi.org/10.3389/fcimb.2022.841748</a>.</p> <p>#XIE Miaomiao, CHEN Kaichao, CHAN Wai Chi, ZHANG Rong, #CHEN Sheng, "Characterisation of clinical carbapenem-resistant K1 <i>Klebsiella quasipneumoniae</i> subsp. <i>similipneumoniae</i> strains harbouring a virulence plasmid", <i>International Journal of Antimicrobial Agents</i>, 60(2), 24 June 2022, doi: <a href="https://doi.org/10.1016/j.ijantimicag.2022.106628">https://doi.org/10.1016/j.ijantimicag.2022.106628</a>.</p> <p>CHENG Qipeng, #CHEUNG Yan Chu, #LIU Chenyu, CHAN Edward Wai-Chi, WONG Kwok-Yin, ZHANG Rong, #CHEN Sheng, "Functional and phylogenetic analysis of TetX variants to design a new classification system", <i>Communications Biology</i>, 5, 31 May 2022, doi: <a href="https://doi.org/10.1038/s42003-022-03465-y">https://doi.org/10.1038/s42003-022-03465-y</a>.</p>   |
| <b>FURTADO William Eduardo</b> | <p>CARDOSO Pedro H. M., RELVAS Rachel S., DE C. BALIAN Simone, POOR Andre P., MORENO Andrea M., MORENO Luísa Z., BARBOSA Mikaela R. F., SATO Maria I. Z., #FURTADO William Eduardo, MARTINS Maurício L., "Neobeneditia melleni from reef ornamental fish species in a retailer of Southeastern Brazil and its possible role as a mechanical vector of bacterial infection", <i>Journal of Parasitic Diseases</i>, 46(1), 02 August 2021, pp 1-7, doi: <a href="https://doi.org/10.1007/s12639-021-01430-w">https://doi.org/10.1007/s12639-021-01430-w</a>.</p> <p>JERÔNIMO Gabriela Tomas, DA CRUZ Matheus Gomes, BERTAGLIA Elisabeth de Aguiar, #FURTADO William Eduardo, MARTINS Maurício Laterça, "Fish parasites can reflect environmental quality in fish farms", <i>Reviews in Aquaculture</i>, 14(3), 20 February 2022, pp 1558-1571, doi: <a href="https://doi.org/10.1111/raq.12662">https://doi.org/10.1111/raq.12662</a>.</p>   |
| <b>GUO Anni</b>                | <p>#GUO Anni, LAU Chun Yue Geoffrey, "TNF-<math>\alpha</math> Orchestrates Experience-Dependent Plasticity of Excitatory and Inhibitory Synapses in the Anterior Piriform Cortex", <i>Frontiers in Neuroscience</i>, 16, 26 April 2022, doi: <a href="https://doi.org/10.3389/fnins.2022.824454">https://doi.org/10.3389/fnins.2022.824454</a>.</p> <p>JIANG Hehai, #GUO Anni, CHIU Arthur, #LI Huanhuan, LAI Cora Sau Wan, LAU Chun Yue Geoffrey, "Target-specific control of piriform cortical output via distinct inhibitory circuits", <i>FASEB Journal</i>, 35(10), 26 September 2021, doi: <a href="https://doi.org/10.1096/fj.202100757R">https://doi.org/10.1096/fj.202100757R</a>.</p>  |
| <b>HAYAT Khizar</b>            | <p>#ZEESHAN Muhammad, ZANEB Hafsa, MASOOD Saima, ASHRAF Saima, KHAN Imad, FASEEH-UR-REHMAN Hafiz, DIN Salahud, #HAYAT Khizar, "Morphological Modulation of Broiler Organs in Response to an Organic Acid-Phytogen Composite in Healthy Broilers", <i>Agriculture (Switzerland)</i>, 12(6), 30 May 2022, doi: <a href="https://doi.org/10.3390/agriculture12060791">https://doi.org/10.3390/agriculture12060791</a>.</p> <p>#HAYAT Khizar, RAZA Ali, ANAS Aitzaz, QURESHI Anas Sarwar, REHAN Sarmad, RABBANI Ameer Hamza, FASEEH-UR-REHMAN Hafiz, QAMAR Abdul Ghaffar, REHMAN Tayyab, DEEBA Farah, SALMAN Amber, "Photoperiodic Modulation in Immune and Reproductive Systems in Japanese Quails (<i>Coturnix japonica</i>): A Morphometric Perspective", <i>Veterinary Sciences</i>, 9(5), 23 May 2022, doi: <a href="https://doi.org/10.3390/vetsci9050248">https://doi.org/10.3390/vetsci9050248</a>.</p>  |
| <b>HOU Changshun</b>           | <p>XU Chen, DONG Ning, CHEN Kaichao, #YANG Xuemei, ZENG Ping, #HOU Changshun, CHI CHAN Edward Wai, YAO Xi, CHEN Sheng, "Bactericidal, anti-biofilm, and anti-virulence activity of vitamin C against carbapenem-resistant hypervirulent <i>Klebsiella pneumoniae</i>", <i>iScience</i>, 25(3), 08 February 2022, doi: <a href="https://doi.org/10.1016/j.isci.2022.103894">https://doi.org/10.1016/j.isci.2022.103894</a>.</p> <p>#YI Bo, #AI Liqing, #HOU Changshun, #LYU Dong, #CAO Chunyan, YAO Xi, "Liquid Metal Nanoparticles as a Highly Efficient Photoinitiator to Develop Multifunctional Hydrogel Composites", <i>ACS applied materials &amp; interfaces</i>, 14(25), 14 June 2022, pp 29315-29323, doi: <a href="https://doi.org/10.1021/acsami.2c07507">https://doi.org/10.1021/acsami.2c07507</a>.</p> <p>CAO Chunyan, #HUANG Xin, #LYU Dong, #AI Liqing, #CHEN Weiling, #HOU Changshun, #YI Bo, LUO Jingdong, YAO Xi, "Ultrastretchable conductive liquid metal composites enabled by adaptive interfacial polarization", <i>Materials Horizons</i>, 8(12), 08 October 2021, pp 3399-3408, doi: <a href="https://doi.org/10.1039/d1mh00924a">https://doi.org/10.1039/d1mh00924a</a>.</p> <p>SONG Enhui, LI Yongxin, CHEN Lili, LAN Xiaopeng, #HOU Changshun, LIU Chunlei, LIU Chunzhao, "An amino acid-based supramolecular nanozyme by coordination self-assembly for cascade catalysis and enhanced chemodynamic therapy towards</p> |

Section A: Publications of PhD Students

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|------------------------|--|
|                        | <p>biomedical applications", <i>Nanoscale Advances</i>, 16 September 2021, doi: <a href="https://doi.org/10.1039/d1na00619c">https://doi.org/10.1039/d1na00619c</a>.</p> <p><u>ZHENG Shuang</u>, <u>TANG Jiayue</u>, <u>LYU Dong</u>, <u>WANG Mi</u>, <u>YANG Xuan</u>, <u>HOU Changshun</u>, <u>YI Bo</u>, <u>LU Gang</u>, <u>HAO Ruiran</u>, <u>WANG Mingzhan</u>, <u>WANG Yanlei</u>, <u>HE Hongyan</u>, <u>YAO Xi</u>, "Continuous Energy Harvesting from Ubiquitous Humidity Gradients using Liquid-Infused Nanofluidics", <i>Advanced Materials</i>, 34(4), 29 October 2021, doi: <a href="https://doi.org/10.1002/adma.202106410">https://doi.org/10.1002/adma.202106410</a>.</p>   |
| <b>HUANG Hao</b>       | <p><u>HUANG Suihong</u>, <u>WU Tan</u>, <u>LAU Alexander Y.</u>, <u>AU Cheryl</u>, <u>HUANG Hao</u>, <u>WANG Xin</u>, <u>KIM Jin Young</u>, "Attention to time-of-day variability improves the reproducibility of gene expression patterns in multiple sclerosis", <i>iScience</i>, 24(11), 09 October 2021, doi: <a href="https://doi.org/10.1016/j.isci.2021.103247">https://doi.org/10.1016/j.isci.2021.103247</a>.</p> <p><u>RIECK Sarah</u>, <u>KILGUS Sofia</u>, <u>MEYER Johanna H.</u>, <u>HUANG Hao</u>, <u>ZHAO Lan</u>, <u>MATTHEY Michaela</u>, <u>WANG Xin</u>, <u>SCHMITZ-VALCKENBERG Steffen</u>, <u>FLEISCHMANN Bernd K.</u>, <u>WENZEL Daniela</u>, "Inhibition of Vascular Growth by Modulation of the Anandamide/Fatty Acid Amide Hydrolase Axis", <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i>, 41(12), 07 October 2021, pp 2974-2989, doi: <a href="https://doi.org/10.1161/ATVBAHA.121.316973">https://doi.org/10.1161/ATVBAHA.121.316973</a>.</p> <p><u>HU Jianyang</u>, <u>LAI Yuni</u>, <u>HUANG Hao</u>, <u>RAMAKRISHNAN Saravanan</u>, <u>PAN Yilin</u>, <u>MA Victor W.S.</u>, <u>CHEUK Wah</u>, <u>SO Grace Y. K.</u>, <u>HE Qingling</u>, <u>LAU Chun Yue Geoffrey</u>, <u>ZHANG Liang</u>, <u>CHO William C.S.</u>, <u>CHAN Kui Ming</u>, <u>WANG Xin</u>, <u>CHIN Rebecca Y M</u>, "TCOF1 upregulation in triple-negative breast cancer promotes stemness and tumour growth and correlates with poor prognosis", <i>British Journal of Cancer</i>, 126(1), 30 October 2021, pp 57-71, doi: <a href="https://doi.org/10.1038/s41416-021-01596-3">https://doi.org/10.1038/s41416-021-01596-3</a>.</p> |
| <b>HUANG Jiadai</b>    | <p><u>XU Xuejie</u>, <u>YAN Yunfang</u>, <u>HUANG Jiadai</u>, <u>ZHANG Zihao</u>, <u>WANG Zhihan</u>, <u>WU Min</u>, <u>LIANG Haihua</u>, "Regulation of uric acid and glyoxylate metabolism by UgmR protein in <i>Pseudomonas aeruginosa</i>", <i>Environmental Microbiology</i>, 14 June 2022, doi: <a href="https://doi.org/10.1111/1462-2920.16088">https://doi.org/10.1111/1462-2920.16088</a>.</p>   |
| <b>HUANG Qianjun</b>   | <p><u>ZHANG Ju</u>, <u>CHEN Juncai</u>, <u>HUANG Qianjun</u>, <u>MACKINNON Erica Brett</u>, <u>NEKOUJAHROMI Omid Ali</u>, <u>LIU Hong</u>, <u>JIA Peng</u>, <u>WANG Jinjin</u>, <u>LI Na</u>, <u>HUANG Liqing</u>, <u>YANG Ying</u>, <u>NG Pok Him</u>, <u>ST-HILAIRE Sophie Natasha</u>, "Copper/Carbon Core/Shell Nanoparticles: a potential material to control the fish pathogen <i>Saprolegnia parasitica</i>", <i>Frontiers in Veterinary Science</i>, 8, 23 July 2021, doi: <a href="https://doi.org/10.3389/fvets.2021.689085">https://doi.org/10.3389/fvets.2021.689085</a>.</p> <p><u>HUANG Qianjun</u>, <u>CHEN Yu</u>, <u>LIU Hong</u>, <u>ST-HILAIRE Sophie Natasha</u>, <u>GAO Shuai</u>, <u>MACKINNON Erica Brett</u>, <u>ZHU Songqi</u>, <u>WEN Zhiqing</u>, <u>JIA Peng</u>, <u>ZHENG Xiacong</u>, "Establishment of a real-time Recombinase Polymerase Amplification (RPA) for the detection of decapod iridescent virus 1 (DIV1)", <i>Journal of Virological Methods</i>, 300, 23 November 2021, pp 114377, doi: <a href="https://doi.org/10.1016/j.jviromet.2021.114377">https://doi.org/10.1016/j.jviromet.2021.114377</a>.</p>   |
| <b>HUANG Suihong</b>   | <p><u>HUANG Suihong</u>, <u>WU Tan</u>, <u>LAU Alexander Y.</u>, <u>AU Cheryl</u>, <u>HUANG Hao</u>, <u>WANG Xin</u>, <u>KIM Jin Young</u>, "Attention to time-of-day variability improves the reproducibility of gene expression patterns in multiple sclerosis", <i>iScience</i>, 24(11), 09 October 2021, doi: <a href="https://doi.org/10.1016/j.isci.2021.103247">https://doi.org/10.1016/j.isci.2021.103247</a>.</p>   |
| <b>KIM Younjung</b>    | <p><u>KIM Younjung</u>, <u>CARRAI Maura</u>, <u>LEUNG HO-yin and Marcus</u>, <u>CHIN Jaime</u>, <u>LI Jun</u>, <u>LEE Patrick Kwan Hon</u>, <u>BEATTY Julia Anne</u>, <u>PFEIFFER Dirk Udo</u>, <u>BARRS Vanessa Rosemary Duke</u>, "Dysbiosis of the Urinary Bladder Microbiome in Cats with Chronic Kidney Disease", <i>mSystems</i>, 6(4), 27 July 2021, doi: <a href="https://doi.org/10.1128/mSystems.00510-21">https://doi.org/10.1128/mSystems.00510-21</a>.</p> <p><u>KIM Younjung</u>, <u>XU Wei</u>, <u>BARRS Vanessa Rosemary Duke</u>, <u>BEATTY Julia Anne</u>, <u>KENEZ Akos</u>, "In-depth characterisation of the urine metabolome in cats with and without urinary tract diseases", <i>Metabolomics</i>, 18(4), 17 March 2022, doi: <a href="https://doi.org/10.1007/s11306-022-01877-9">https://doi.org/10.1007/s11306-022-01877-9</a>.</p> <p><u>YOO Dae Sung</u>, <u>CHUN Byung chul</u>, <u>KIM Younjung</u>, <u>LEE Kwang-Nyeong</u>, <u>MOON Oun-Kyoung</u>, "Dynamics of inter-farm transmission of highly pathogenic avian influenza H5N6 integrating vehicle movements and phylogenetic information", <i>Scientific Reports</i>, 11, 17 December 2021, doi: <a href="https://doi.org/10.1038/s41598-021-03284-x">https://doi.org/10.1038/s41598-021-03284-x</a>.</p>   |
| <b>LEUNG Kwan Chak</b> | <p><u>KOT Brian Chin Wing</u>, <u>HO Hei Nam</u>, <u>LEUNG Kwan Chak</u>, <u>CHUNG Yik To</u>, <u>TSUI Chun Lok</u>, "Characterisation of <i>Crassicauda fueilleborni</i> nematode infection in Indo-Pacific finless porpoises (<i>Neophocaena phocaenoides</i>) using postmortem computed tomography",</p>  |

Section A: Publications of PhD Students

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|                               | <i>International Journal for Parasitology: Parasites and Wildlife</i> , 18, 19 April 2022, pp 68-75, doi: <a href="https://doi.org/10.1016/j.ijppaw.2022.04.005">https://doi.org/10.1016/j.ijppaw.2022.04.005</a> .   |
| <b>LIN Dan</b>                | # <a href="#">LIN Dan</a> , LAN Lan, <a href="#">ZHENG Tingting</a> , SHI Peng, XU Jinshan, <a href="#">LI Jun</a> , "Comparative Genomics Reveals Recent Adaptive Evolution in Himalayan Giant Honeybee <i>Apis laboriosa</i> ", <i>Genome Biology and Evolution</i> , 13(10), 01 October 2021, doi: <a href="https://doi.org/10.1093/gbe/evab227">https://doi.org/10.1093/gbe/evab227</a> .   |
|                               | HE Qiuwen, <a href="#">HUANG Jiating</a> , <a href="#">ZHENG Tingting</a> , # <a href="#">LIN Dan</a> , ZHANG Heping, <a href="#">LI Jun</a> , SUN Zhihong, "Treatment with mixed probiotics induced enhanced and diversified modulation of the gut microbiome of healthy rats", <i>FEMS Microbiology Ecology</i> , 97(12), 18 November 2021, doi: <a href="https://doi.org/10.1093/femsec/fiab151">https://doi.org/10.1093/femsec/fiab151</a> .  |
| <b>LU Chenyu</b>              | SONG Zhengbo, LIAN Shifeng, MAK Silvia, CHOW Maggie Zi Ying, XU Chunwei, WANG Wenxian, KEUNG Hoi Yee, # <a href="#">LU Chenyu</a> , <a href="#">KEBEDE Firaol Tamiru</a> , GAO Yanqiu, CHEUK Wah, CHO William Chi-Shing, <a href="#">YANG M</a> , <a href="#">ZHENG Zongli</a> , "Deep RNA Sequencing Revealed Fusion Junctional Heterogeneity May Predict Crizotinib Treatment Efficacy in <i>ALK</i> -Rearranged NSCLC", <i>Journal of Thoracic Oncology</i> , 17(2), 06 October 2021, pp 264-276, doi: <a href="https://doi.org/10.1016/j.jtho.2021.09.016">https://doi.org/10.1016/j.jtho.2021.09.016</a> .   |
| <b>PAN Yilin</b>              | <a href="#">HU Jianyang</a> , <a href="#">LAI Yuni</a> , # <a href="#">HUANG Hao</a> , <a href="#">RAMAKRISHNAN Saravanan</a> , # <a href="#">PAN Yilin</a> , MA Victor W.S., CHEUK Wah, SO Grace Y. K., # <a href="#">HE Qingling</a> , <a href="#">LAU Chun Yue Geoffrey</a> , <a href="#">ZHANG Liang</a> , CHO William C.S., <a href="#">CHAN Kui Ming</a> , <a href="#">WANG Xin</a> , <a href="#">CHIN Rebecca Y M</a> , "TCOF1 upregulation in triple-negative breast cancer promotes stemness and tumour growth and correlates with poor prognosis", <i>British Journal of Cancer</i> , 126(1), 30 October 2021, pp 57-71, doi: <a href="https://doi.org/10.1038/s41416-021-01596-3">https://doi.org/10.1038/s41416-021-01596-3</a> . |
| <b>SONG Baolin</b>            | # <a href="#">HUSSAIN Sabir</a> , HUSSAIN Abrar, # <a href="#">AZIZ Muhammad Umair</a> , # <a href="#">SONG Baolin</a> , <a href="#">ZEB Jehan</a> , GEORGE David, <a href="#">LI Jun</a> , <a href="#">SPARAGANO Olivier Andre</a> , "A Review of Zoonotic Babesiosis as an Emerging Public Health Threat in Asia", <i>Pathogens</i> , 11(1), 24 December 2021, doi: <a href="https://doi.org/10.3390/pathogens11010023">https://doi.org/10.3390/pathogens11010023</a> .   |
|                               | # <a href="#">HUSSAIN Sabir</a> , HUSSAIN Abrar, # <a href="#">AZIZ Muhammad Umair</a> , # <a href="#">SONG Baolin</a> , <a href="#">ZEB Jehan</a> , GEORGE David, <a href="#">LI Jun</a> , <a href="#">SPARAGANO Olivier Andre</a> , "The Role of Ticks in the Emergence of <i>Borrelia burgdorferi</i> as a Zoonotic Pathogen and Its Vector Control: A Global Systemic Review", <i>Microorganisms</i> , 9(12), 23 November 2021, doi: <a href="https://doi.org/10.3390/microorganisms9122412">https://doi.org/10.3390/microorganisms9122412</a> .  |
|                               | # <a href="#">SONG Baolin</a> , <a href="#">ZEB Jehan</a> , # <a href="#">HUSSAIN Sabir</a> , # <a href="#">AZIZ Muhammad Umair</a> , CIRCELLA Elena, CASALINO Gaia, CAMARDA Antonio, <a href="#">YANG Guan</a> , BUCHON Nicolas, <a href="#">SPARAGANO Olivier Andre</a> , "A Review on the Marek's Disease Outbreak and Its Virulence-Related <i>meq</i> Genovariation in Asia between 2011 and 2021", <i>Animals</i> , 12(5), 22 February 2022, doi: <a href="https://doi.org/10.3390/ani12050540">https://doi.org/10.3390/ani12050540</a> .   |
|                               | # <a href="#">HUSSAIN Sabir</a> , PERVEEN Nighat, HUSSAIN Abrar, # <a href="#">SONG Baolin</a> , # <a href="#">AZIZ Muhammad Umair</a> , <a href="#">ZEB Jehan</a> , <a href="#">LI Jun</a> , GEORGE David, CABEZAS-CRUZ Alejandro, <a href="#">SPARAGANO Olivier Andre</a> , "The Symbiotic Continuum Within Ticks: Opportunities for Disease Control", <i>Frontiers in Microbiology</i> , 13, 17 March 2022, doi: <a href="https://doi.org/10.3389/fmicb.2022.854803">https://doi.org/10.3389/fmicb.2022.854803</a> .   |
|                               | <a href="#">ZEB Jehan</a> , # <a href="#">SONG Baolin</a> , # <a href="#">AZIZ Muhammad Umair</a> , # <a href="#">HUSSAIN Sabir</a> , <a href="#">SPARAGANO Olivier Andre</a> , ZARIN Riaz, "Diversity and Distribution of <i>Theileria</i> Species and Their Vectors in Ruminants from India, Pakistan and Bangladesh", <i>Diversity</i> , 14(2), 25 January 2022, doi: <a href="https://doi.org/10.3390/d14020082">https://doi.org/10.3390/d14020082</a> .  |
|                               | # <a href="#">SONG Baolin</a> , FU Min, HE Fang, ZHAO Huan, WANG Yu, NIE Qihang, WU Bangyuan, "Methionine Deficiency Affects Liver and Kidney Health, Oxidative Stress, and Ileum Mucosal Immunity in Broilers", <i>Frontiers in Veterinary Science</i> , 8, 22 September 2021, doi: <a href="https://doi.org/10.3389/fvets.2021.722567">https://doi.org/10.3389/fvets.2021.722567</a> , <a href="https://doi.org/10.3389/fvets.2021.722567">https://doi.org/10.3389/fvets.2021.722567</a> .  |
| <b>UEA-ANUWONG Theethawat</b> | HUANG Elaine Y. Y., LAW Sean T. S., NONG Wenyan, YIP Ho Yin, # <a href="#">UEA-ANUWONG Theethawat</a> , <a href="#">MAGOURAS Ioannis</a> , HUI Jerome Ho Lam, "The screening for anticoagulant rodenticide gene <i>VKORC1</i> polymorphism in the rat <i>Rattus norvegicus</i> , <i>Rattus tanezumi</i> and <i>Rattus losea</i> in Hong Kong", <i>Scientific Reports</i> , 12, 2022, doi: <a href="https://doi.org/10.1038/s41598-022-16550-3">https://doi.org/10.1038/s41598-022-16550-3</a> .   |

Section A: Publications of PhD Students

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|--------------------------|---|
| <b>WANG Xingxing</b>     | #ZHANG Yiwen, YU Jinhan, #TAN Lu, #WANG Xingxing, LI Runsheng, KIM Dal Young, "Complete genetic dissection and cell type-specific replication of old world alphaviruses, getah virus (GETV) and sagiyama virus (SAGV)", <i>Journal of Microbiology</i> , 59(11), 27 September 2021, pp 1044–1055, doi: <a href="https://doi.org/10.1007/s12275-021-1361-8">https://doi.org/10.1007/s12275-021-1361-8</a> .  |
| <b>WU Tan</b>            | #HUANG Suihong, #WU Tan, LAU Alexander Y., AU Cheryl, #HUANG Hao, WANG Xin, KIM Jin Young, "Attention to time-of-day variability improves the reproducibility of gene expression patterns in multiple sclerosis", <i>iScience</i> , 24(11), 09 October 2021, doi: <a href="https://doi.org/10.1016/j.isci.2021.103247">https://doi.org/10.1016/j.isci.2021.103247</a> .<br>#QI Lin, WANG Wei, #WU Tan, #ZHU Lina, #HE Lingli, WANG Xin, "Multi-Omics Data Fusion for Cancer Molecular Subtyping Using Sparse Canonical Correlation Analysis", <i>Frontiers in Genetics</i> , 12, 22 July 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.607817">https://doi.org/10.3389/fgene.2021.607817</a> .   |
| <b>YI Wenkai</b>         | ZHANG Weixian, LIN Jingxiong, SHI Peilin, SU Dandan, CHENG Xiaoli, #YI Wenkai, YAN Jian, CHEN Hongbo, CHENG Fang, "Small Extracellular Vesicles Derived From MSCs Have Immunomodulatory Effects to Enhance Delivery of ASO-210 for Psoriasis Treatment", <i>Frontiers in Cell and Developmental Biology</i> , 10, 10 March 2022, doi: <a href="https://doi.org/10.3389/fcell.2022.842813">https://doi.org/10.3389/fcell.2022.842813</a> .   |
| <b>ZHANG Huiqi</b>       | LAU Chun Yue Geoffrey, #ZHANG Huiqi, MURTHY Venkatesh N., "Deletion of TrkB in parvalbumin interneurons alters cortical neural dynamics", <i>Journal of Cellular Physiology</i> , 237(1), 07 September 2021, pp 949-964, doi: <a href="https://doi.org/10.1002/jcp.30571">https://doi.org/10.1002/jcp.30571</a> .   |
| <b>ZHU Lina</b>          | #QI Lin, WANG Wei, #WU Tan, #ZHU Lina, #HE Lingli, WANG Xin, "Multi-Omics Data Fusion for Cancer Molecular Subtyping Using Sparse Canonical Correlation Analysis", <i>Frontiers in Genetics</i> , 12, 22 July 2021, doi: <a href="https://doi.org/10.3389/fgene.2021.607817">https://doi.org/10.3389/fgene.2021.607817</a> .  |
| <b>Conference papers</b> |   |
| <b>LEUNG Yue Hei</b>     | RUIZ-GONZALEZ A, #LEUNG Yue Hei, CELEMIN A, KENEZ Akos, CHOUINARD PY, GERVAIS R, OUELLET DR, LAPIERRE H, RICO DE, "Whole-body protein and glucose metabolism in cows fed diets with varying amino acid supply under heat stress", <i>Abstracts of the 2022 American Dairy Science Association Annual Meeting</i> , Kansas City, United States, 19-22 June 2022, pp 93.<br>RUIZ-GONZALEZ A, CELEMIN A, #LEUNG Yue Hei, KENEZ Akos, CHOUINARD P.Y., LAPIERRE H, OUELLET D.R., GERVAIS R, RICO D. E., "Milk fatty acids as markers of heat stress in cows fed diets with varying protein composition", <i>Book of Abstracts of the 72<sup>nd</sup> Annual Meeting of the European Federation of Animal Science</i> , Davos Congress, Davos, Switzerland, 30 August - 03 September 2021, pp 133, (ISBN: 9789086863662,9789086869183). |
| <b>All other outputs</b> |   |
| <b>HOU Changshun</b>     | #HOU Changshun, <i>Development of Multifunctional Adhesives for Biomedical Applications</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 22 June 2022.   |
| <b>HUANG Hao</b>         | #HUANG Hao, <i>Integrative Analysis of Multiomic Data to Dissect Transcriptional Regulatory Mechanisms</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 07 September 2021.   |
| <b>KIM Younjung</b>      | #KIM Younjung, <i>Exploring Unknown Feline and Canine -omes and their Health Implications</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 11 January 2022.<br>CONAN Anne Yvonne, #KIM Younjung, YANG Aaron, WIN Tu Tu Zaw, NEKOU EI JAHROMI Omid Ali, PFEIFFER Dirk Udo, "African Swine Fever Cross-border Risk Assessment Manual: South-East Asia", World Organisation for Animal Health, ISBN: 978-92-95121-13-3, Bangkok, 2021.  |
| <b>SONG Dan</b>          | #SONG Dan, <i>Erp57 is Critical for ZIKA Virus Induced Host Cell DNA Damage</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 23 August 2021.   |
| <b>WANG Xiaoyu</b>       | #WANG Xiaoyu, <i>High-frequency Activation of GABAergic Cholecystokinin Neurons Potentiates their Inhibition and Induces Long-term Depression in the Hippocampus</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 02 July 2021.  |

Section A: Publications of PhD Students

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| <b>ZHANG Daniel Xin</b> | #ZHANG Daniel Xin, <i>Extracellular Vesicles in Cancer Progression</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 30 August 2021.   |
| <b>ZHU Lina</b>         | #ZHU Lina, <i>Multi-omics Data Integration to Dissect the Tumor Heterogeneity and Elucidate Cancer Subtype-specific Regulatory Mechanisms</i> , PhD Thesis, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, Hong Kong, PRC, 26 October 2021. |

## Section B: Publications of MPhil Students

| College of Business                  |   |
|--------------------------------------|---|
| DEPARTMENT OF ECONOMICS AND FINANCE  |   |
| All other outputs                    |   |
| CHEN Xilong                          | #CHEN Xilong, <i>Process of Agglomeration and TFP Change</i> , MPhil Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 07 September 2021.  |
| JIN Yangbao                          | #JIN Yangbao, <i>Cryptocurrency Bitcoin Study: Various Bitcoin Dynamics Models to Explore the Fundamental Value of Bitcoin and Its Price Formation</i> , MPhil Thesis, Department of Economics and Finance, City University of Hong Kong, Hong Kong, PRC, 17 June 2022.   |
| DEPARTMENT OF MANAGEMENT SCIENCES    |   |
| All other outputs                    |   |
| ZHANG Yin                            | #ZHANG Yin, <i>Predicting Stock Prices and Their Directional Movement Using High-Frequency Data: An Empirical Study of China's A-Share Market</i> , MPhil Thesis, Department of Management Sciences, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.  |
| College of Engineering               |   |
| DEPARTMENT OF BIOMEDICAL ENGINEERING |   |
| Journal publications                 |   |
| HE Jiahui                            | <p>LI Dengfeng, #HE Jiahui, SONG Zhen, #YAO Kuanming, WU Mengge, FU Haoran, #LIU Yiming, #GAO Zhan, #ZHOU Jingkun, WEI Lei, ZHANG Zhengyou, DAI Yuan, XIE Zhaoqian, YU Xinge, "Miniaturization of mechanical actuators in skin-integrated electronics for haptic interfaces", <i>Microsystems and Nanoengineering</i>, 7, 22 October 2021, doi: <a href="https://doi.org/10.1038/s41378-021-00301-x">https://doi.org/10.1038/s41378-021-00301-x</a>.</p> <p>#LIU Yiming, #YIU Chun Ki, SONG Zhen, HUANG Ya, #YAO Kuanming, #WONG Tsz Hung, #ZHOU Jingkun, #ZHAO Ling, #HUANG Xingcan, #KHAZAE NEJAD GHARAHEKAN Sina, WU Mengge, LI Dengfeng, #HE Jiahui, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, YU Xinge, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>  |
| WONG Tsz Hung                        | <p>PARK Wooyoung, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, #HUANG Xingcan, #ZHOU Jingkun, #LI Jian, #YAO Kuanming, HUANG Ya, LI Hu, LI Jiyu, #JIAO Yanli, SHI Rui, YU Xinge, "High channel temperature mapping electronics in a thin, soft, wireless format for non-invasive body thermal analysis", <i>Biosensors</i>, 11(11), 02 November 2021, doi: <a href="https://doi.org/10.3390/bios11110435">https://doi.org/10.3390/bios11110435</a>.</p> <p>#WONG Tsz Hung, #LIU Yiming, #LI Jian, #YAO Kuanming, LIU Sitong, #YIU Chun Ki, #HUANG Xingcan, WU Mengge, PARK Wooyoung, #ZHOU Jingkun, #KHAZAE NEJAD GHARAHEKAN Sina, LI Hu, LI Dengfeng, XIE Zhaoqian, YU Xinge, "Triboelectric Nanogenerator Tattoos Enabled by Epidermal Electronic Technologies", <i>Advanced Functional Materials</i>, 32(15), 26 December 2021, doi: <a href="https://doi.org/10.1002/adfm.202111269">https://doi.org/10.1002/adfm.202111269</a>.</p> <p>#HUANG Xingcan, LI Hu, LI Jiyu, #HUANG Libei, #YAO Kuanming, #YIU Chun Ki, #LIU Yiming, #WONG Tsz Hung, LI Dengfeng, WU Mengge, HUANG Ya, #GAO Zhan, #ZHOU Jingkun, #GAO Yuyu, #LI Jian, #JIAO Yanli, SHI Rui, ZHANG Binbin, HU Bofan, GUO Qinglei, SONG Enming, YE Ruquan, YU Xinge, "Transient, Implantable, Ultrathin Biofuel Cells Enabled by Laser-Induced Graphene and Gold Nanoparticles Composite", <i>Nano Letters</i>, 22(8), 12 April 2022, pp 3447-3456, doi: <a href="https://doi.org/10.1021/acs.nanolett.2c00864">https://doi.org/10.1021/acs.nanolett.2c00864</a>.</p> <p>#LI Jian, #LIU Yiming, WU Mengge, #YAO Kuanming, #GAO Zhan, #GAO Yuyu, #HUANG Xingcan, #WONG Tsz Hung, #ZHOU Jingkun, LI Dengfeng, LI Hu, LI Jiyu, HUANG Ya, SHI Rui, YU Junsheng, YU Xinge, "Thin, soft, 3D printing enabled crosstalk</p> |

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|  | <p>minimized triboelectric nanogenerator arrays for tactile sensing", <i>Fundamental Research</i>, 04 February 2022, doi: <a href="https://doi.org/10.1016/j.fmre.2022.01.021">https://doi.org/10.1016/j.fmre.2022.01.021</a>.</p>  |
|  | <p>WU Mengge, <a href="#">SHI Rui</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">#YAO Kuanming</a>, <a href="#">#LI Jian</a>, <a href="#">#HUANG Xingcan</a>, <a href="#">LI Dengfeng</a>, <a href="#">#GAO Yuyu</a>, <a href="#">#LIU Yiming</a>, HOU Sihui, YU Junsheng, <a href="#">YU Xinge</a>, "Bio-inspired ultra-thin microfluidics for soft sweat-activated batteries and skin electronics", <i>Journal of Materials Chemistry A</i>, 07 April 2022, doi: <a href="https://doi.org/10.1039/d2ta01154a">https://doi.org/10.1039/d2ta01154a</a>.</p>  |
|  | <p><a href="#">#YIU Chun Ki</a>, <a href="#">#LIU Yiming</a>, <a href="#">ZHANG Chao</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">#JIA Huiling</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">#HUANG Xingcan</a>, <a href="#">#LI Jian</a>, <a href="#">#YAO Kuanming</a>, <a href="#">YAU Ming Kei</a>, <a href="#">#ZHAO Ling</a>, <a href="#">LI Hu</a>, ZHANG Binbin, <a href="#">PARK Wooyoung</a>, <a href="#">ZHANG Yuanting</a>, <a href="#">WANG Zuankai</a>, <a href="#">YU Xinge</a>, "Soft, stretchable, wireless intelligent three-lead electrocardiograph monitors with feedback functions for warning of potential heart attack", <i>SmartMat</i>, 16 May 2022, doi: <a href="https://doi.org/10.1002/smm2.1114">https://doi.org/10.1002/smm2.1114</a>.</p>   |
|  | <p>SUN Yanhua, <a href="#">LI Dengfeng</a>, WU Mengge, YANG Yale, <a href="#">SU Jingyou</a>, <a href="#">#WONG Tsz Hung</a>, XU Kangming, LI Ying, LI Lu, <a href="#">YU Xinge</a>, YU Junsheng, "Origami-inspired folding assembly of dielectric elastomers for programmable soft robots", <i>Microsystems and Nanoengineering</i>, 8, 31 March 2022, doi: <a href="https://doi.org/10.1038/s41378-022-00363-5">https://doi.org/10.1038/s41378-022-00363-5</a>.</p>   |
|  | <p><a href="#">#LIU Yiming</a>, <a href="#">#YIU Chun Ki</a>, SONG Zhen, <a href="#">HUANG Ya</a>, <a href="#">#YAO Kuanming</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">#ZHAO Ling</a>, <a href="#">#HUANG Xingcan</a>, <a href="#">#KHAZAEE NEJAD GHARAHEKAN Sina</a>, <a href="#">WU Mengge</a>, <a href="#">LI Dengfeng</a>, <a href="#">#HE Jiahui</a>, GUO Xu, YU Junsheng, FENG Xue, XIE Zhaoqian, <a href="#">YU Xinge</a>, "Electronic skin as wireless human-machine interfaces for robotic VR", <i>Science Advances</i>, 8(2), 14 January 2022, doi: <a href="https://doi.org/10.1126/sciadv.abl6700">https://doi.org/10.1126/sciadv.abl6700</a>.</p>  |
|  | <p><a href="#">#HUANG Xingcan</a>, <a href="#">#LIU Yiming</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">#KHAZAEE NEJAD GHARAHEKAN Sina</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">HUANG Ya</a>, <a href="#">LI Hu</a>, <a href="#">#YIU Chun Ki</a>, <a href="#">PARK Wooyoung</a>, <a href="#">#LI Jian</a>, <a href="#">SU Jingyou</a>, <a href="#">#ZHAO Ling</a>, <a href="#">#YAO Kuanming</a>, <a href="#">WU Mengge</a>, <a href="#">#GAO Zhan</a>, <a href="#">LI Dengfeng</a>, <a href="#">LI Jiyu</a>, <a href="#">SHI Rui</a>, <a href="#">YU Xinge</a>, "Garment embedded sweat-activated batteries in wearable electronics for continuous sweat monitoring", <i>npj Flexible Electronics</i>, 6(1), 08 February 2022, doi: <a href="https://doi.org/10.1038/s41528-022-00144-0">https://doi.org/10.1038/s41528-022-00144-0</a>.</p>   |
|  | <p><a href="#">#HUANG Xingcan</a>, <a href="#">LI Jiyu</a>, <a href="#">#LIU Yiming</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">SU Jingyou</a>, <a href="#">#YAO Kuanming</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">HUANG Ya</a>, <a href="#">LI Hu</a>, <a href="#">LI Dengfeng</a>, <a href="#">WU Mengge</a>, <a href="#">SONG Enming</a>, HAN Shijiao, <a href="#">YU Xinge</a>, "Epidermal self-powered sweat sensors for glucose and lactate monitoring", <i>Bio-Design and Manufacturing</i>, 5(1), 19 July 2021, pp 201-209, doi: <a href="https://doi.org/10.1007/s42242-021-00156-1">https://doi.org/10.1007/s42242-021-00156-1</a>.</p>   |
|  | <p><a href="#">#LIU Yiming</a>, <a href="#">#HUANG Xingcan</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">#YIU Chun Ki</a>, SONG Zhen, <a href="#">#HUANG Wei</a>, <a href="#">#KHAZAEE NEJAD GHARAHEKAN Sina</a>, <a href="#">LI Hu</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">#YAO Kuanming</a>, <a href="#">#ZHAO Ling</a>, YOO Woojung, <a href="#">PARK Wooyoung</a>, <a href="#">LI Jiyu</a>, <a href="#">HUANG Ya</a>, <a href="#">LAM Hiu Wai Raymond</a>, <a href="#">SONG Enming</a>, GUO Xu, WANG Yanwei, DAI Zhenxue, CHANG Lingqian, <a href="#">LI Wen Jung</a>, XIE Zhaoqian, <a href="#">YU Xinge</a>, "Stretchable Sweat-Activated Battery in Skin-Integrated Electronics for Continuous Wireless Sweat Monitoring", <i>Advanced Science</i>, 9(9), 28 January 2022, doi: <a href="https://doi.org/10.1002/advs.202104635">https://doi.org/10.1002/advs.202104635</a>.</p>    |
|  | <p><a href="#">#LIU Yiming</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">#HUANG Xingcan</a>, <a href="#">#YIU Chun Ki</a>, <a href="#">#GAO Yuyu</a>, <a href="#">#ZHAO Ling</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">PARK Wooyoung</a>, ZHAO Zhao, <a href="#">#YAO Kuanming</a>, <a href="#">LI Hu</a>, <a href="#">#JIA Huiling</a>, <a href="#">#LI Jian</a>, <a href="#">LI Jiyu</a>, <a href="#">HUANG Ya</a>, <a href="#">WU Mengge</a>, ZHANG Binbin, <a href="#">LI Dengfeng</a>, <a href="#">ZHANG Chao</a>, <a href="#">WANG Zuankai</a>, <a href="#">YU Xinge</a>, "Skin-integrated, stretchable, transparent triboelectric nanogenerators based on ion-conducting hydrogel for energy harvesting and tactile sensing", <i>Nano Energy</i>, 99, 02 June 2022, doi: <a href="https://doi.org/10.1016/j.nanoen.2022.107442">https://doi.org/10.1016/j.nanoen.2022.107442</a>.</p> |
|  | <p><a href="#">#LIU Yiming</a>, <a href="#">#HUANG Xingcan</a>, <a href="#">#ZHOU Jingkun</a>, <a href="#">#LI Jian</a>, <a href="#">#KHAZAEE NEJAD GHARAHEKAN Sina</a>, <a href="#">#YIU Chun Ki</a>, <a href="#">LI Hu</a>, <a href="#">#WONG Tsz Hung</a>, <a href="#">PARK Wooyoung</a>, <a href="#">#YAO Kuanming</a>, <a href="#">#ZHAO Ling</a>, <a href="#">SHI Rui</a>, WANG Yanwei, DAI Zhenxue, <a href="#">YU Xinge</a>, "Bandage based energy generators activated by sweat in wireless skin electronics for continuous physiological monitoring", <i>Nano Energy</i>, 92, 20 November 2021, doi: <a href="https://doi.org/10.1016/j.nanoen.2021.106755">https://doi.org/10.1016/j.nanoen.2021.106755</a>.</p>   |

Section B: Publications of MPhil Students

|   |   |
|---|---|
|   | #WONG Tsz Hung, #YIU Chun Ki, #ZHOU Jingkun, SONG Zhen, #LIU Yiming, #ZHAO Ling, #YAO Kuanming, PARK Wooyoung, SONG Enming, XIE Zhaoqian, YU Xinge, #YOO Woojung, "Tattoo-like epidermal electronics as skin sensors for human machine interfaces <sup>SEP</sup> ", <i>Soft Science</i> , 1(2), 23 September 2021, doi: <a href="https://doi.org/10.20517/ss.2021.09">https://doi.org/10.20517/ss.2021.09</a> .                                     |
| <b>All other outputs</b>                    |   |
| HE Jiahui                                   | #HE Jiahui, <i>Skin-integrated Triboelectric Nanogenerator-based Tactile Sensors for Epidermal Electronics</i> , MPhil Thesis, Department of Biomedical Engineering, City University of Hong Kong, Hong Kong, PRC, 23 August 2021.  |
| <b>DEPARTMENT OF COMPUTER SCIENCE</b>       |   |
| <b>Journal publications</b>                 |   |
| HAN Fangzhou                                | #HAN Fangzhou, #YE Shuquan, HE Mingming, CHAI Menglei, LIAO Jing, "Exemplar-Based 3D Portrait Stylization", <i>IEEE Transactions on Visualization and Computer Graphics</i> , 24 September 2021, doi: <a href="https://doi.org/10.1109/TVCG.2021.3114308">https://doi.org/10.1109/TVCG.2021.3114308</a> .   |
|   | #HAN Fangzhou, #WANG Can, #DU Hao, LIAO Jing, "Deep Portrait Lighting Enhancement with 3D Guidance", <i>Computer Graphics Forum</i> , 40(4), 15 July 2021, pp 177-188, doi: <a href="https://doi.org/10.1111/cgf.14350">https://doi.org/10.1111/cgf.14350</a> .   |
| MEI Xiupei                                  | #MEI Xiupei, #ASHRAF Imran, #MA Xiaoxue, #ZHANG Hao, #WEI Zhengyuan, #WANG Haipeng, CHAN Wing Kwong, "Execution Repair for Spark Programs by Active Maintenance of Partition Dependency", <i>IEEE Access</i> , 9, 16 July 2021, pp 101555-101573, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3097823">https://doi.org/10.1109/ACCESS.2021.3097823</a> .  |
| <b>Conference papers</b>                    |   |
| SONG Keqi                                   | #NI Tao, #CHEN Yongliang, #SONG Keqi, XU Weitao, "A Simple and Fast Human Activity Recognition System Using Radio Frequency Energy Harvesting", <i>UbiComp/ISWC '21 Adjunct - Proceedings of the 2021 ACM International Joint Conference on Pervasive and Ubiquitous Computing and Proceedings of the 2021 ACM International Symposium on Wearable Computers</i> , Virtual, United States, 21-26 September 2021, pp 666-671, (ISBN: 9781450384612). |
| TENG Wenjun                                 | #TENG Wenjun, LI Yong, KWONG Tak Wu Sam, "Light Field Compression via a Variational Graph Auto-Encoder", <i>Proceedings of 2021 International Conference on Wavelet Analysis and Pattern Recognition</i> , Virtual, Adelaide, Australia, 04-05 December 2021, (ISBN: 978-1-6654-6612-7, 9781665466110).   |
| XU Chengyuan                                | #XU Chengyuan, WANG Jianping, WU Kui, LU Kejie, QIAO Chunming, XU Qian, "Aol-centric Task Scheduling for Autonomous Driving Systems", <i>IEEE INFOCOM 2022 - IEEE Conference on Computer Communications</i> , Virtual, London, United Kingdom, 02-05 May 2022, pp 1019-1028, (ISBN: 978-1-6654-5822-1, 978-1-6654-5823-8).  |
| <b>All other outputs</b>                    |   |
| MEI Xiupei                                  | #MEI Xiupei, <i>Execution Repair for Spark Programs by Active Maintenance of Partition Dependency</i> , MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 05 January 2022.  |
| XU Chengyuan                                | #XU Chengyuan, <i>Aol-centric Task Scheduling for Autonomous Driving Systems</i> , MPhil Thesis, Department of Computer Science, City University of Hong Kong, Hong Kong, PRC, 10 December 2021.  |
| <b>DEPARTMENT OF ELECTRICAL ENGINEERING</b> |   |
| <b>Journal publications</b>                 |   |
| LEE Wai Kwan                                | #LEE Wai Kwan, CHUNG Shu Hung Henry, LAU Wing Hong Ricky, "Online Estimation of Intrinsic Parameters of Encapsulated Three-Phase Harmonic Filter Capacitors for IoT Applications", <i>IEEE Access</i> , 9, 02 November 2021, pp 150939-150950, doi: <a href="https://doi.org/10.1109/ACCESS.2021.3125054">https://doi.org/10.1109/ACCESS.2021.3125054</a> .   |
| WONG Tsz Yuk                                | #WONG Tsz Yuk, LAU Wing Hong Ricky, CHUNG Shu Hung Henry, SHUM Chong, "A feasibility study of using Manufacturing Message Specification report gateway model for IEC61850 inter-substation type-1 messaging over Wide Area Network", <i>Sustainable Energy, Grids and Networks</i> , 30, 21 January 2022, doi: <a href="https://doi.org/10.1016/j.segan.2022.100612">https://doi.org/10.1016/j.segan.2022.100612</a> .                              |



| <b>Patents, agreements, assignments and companies</b>  |  |
|--|--|
| <b>LIU Chun For</b>                                    | <u>CHUNG Shu Hung Henry</u> , # <u>LIU Chun For</u> , <u>LAU Wing Hong Ricky</u> , Method of diagnosing an electrical energy storage apparatus, an electronic device for use in an electrical energy storage apparatus and an electrical energy storage apparatus, Patent No.: US11,360,151, United States, 14 June 2022.  |
| <b>TSE Hiu Kwan</b>                                    | <u>CHUNG Shu Hung Henry</u> , # <u>TSE Hiu Kwan</u> , 一種用於調節功率電路的方法及電功率調節裝置, Patent No.: ZL201710795003.2, China, 26 October 2021.   |
| <b>All other outputs</b>                               |  |
| <b>LIU Chun For</b>                                    | # <u>LIU Chun For</u> , <i>Diagnostic Technique for Large-scale Battery System</i> , MPhil Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 29 October 2021.  |
| <b>TSE Hiu Kwan</b>                                    | # <u>TSE Hiu Kwan</u> , <i>Maximum Power Point Tracker for Electromagnetic Energy Harvesting Systems</i> , MPhil Thesis, Department of Electrical Engineering, City University of Hong Kong, Hong Kong, PRC, 14 April 2022.  |
| <b>DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING</b> |  |
| <b>Journal publications</b>                            |  |
| <b>XU Yunkun</b>                                       | # <u>MA Xue</u> , # <u>XU Yunkun</u> , <u>LI Siqi</u> , <u>LO Tsz Wing</u> , <u>ZHANG Baolin</u> , <u>ROGACH Andrey</u> , <u>LEI Dangyuan</u> , "A Flexible Plasmonic-Membrane-Enhanced Broadband Tin-Based Perovskite Photodetector", <i>Nano Letters</i> , 21(21), 21 October 2021, pp 9195-9202, doi: <a href="https://doi.org/10.1021/acs.nanolett.1c03050">https://doi.org/10.1021/acs.nanolett.1c03050</a> .   |
|  | # <u>XU Yunkun</u> , <u>FAN Yulong</u> , <u>QING Ye Ming</u> , <u>CUI Tie Jun</u> , <u>LEI Dangyuan</u> , "A generalized method for calculating plasmoelectric potential in non-Mie-resonant plasmonic systems", <i>Nanophotonics</i> , 10 February 2022, doi: <a href="https://doi.org/10.1515/nanoph-2021-0610">https://doi.org/10.1515/nanoph-2021-0610</a> .   |
|  | # <u>FU Yang</u> , <u>AN Yidan</u> , # <u>XU Yunkun</u> , <u>DAI Jian-Guo</u> , <u>LEI Dangyuan</u> , "Polymer coating with gradient-dispersed dielectric nanoparticles for enhanced daytime radiative cooling", <i>EcoMat</i> , 11 January 2022, doi: <a href="https://doi.org/10.1002/eom2.12169">https://doi.org/10.1002/eom2.12169</a> .   |
|  | <u>FAN Yulong</u> , <u>CHEN Mu Ku</u> , <u>QIU Meng</u> , <u>LIN Ren Jie</u> , # <u>XU Yunkun</u> , <u>WEN Jing</u> , <u>TANG Tianchen</u> , # <u>LIU Xiaoyuan</u> , <u>JIN Wei</u> , <u>TSAI Din-ping</u> , <u>LEI Dangyuan</u> , "Experimental Demonstration of Genetic Algorithm Based Metalens Design for Generating Side-Lobe-Suppressed, Large Depth-of-Focus Light Sheet", <i>Laser and Photonics Reviews</i> , 16(2), 13 December 2021, doi: <a href="https://doi.org/10.1002/lpor.202100425">https://doi.org/10.1002/lpor.202100425</a> . |
| <b>College of Liberal Arts and Social Sciences</b>     |  |
| <b>DEPARTMENT OF SOCIAL AND BEHAVIOURAL SCIENCES</b>   |  |
| <b>All other outputs</b>                               |  |
| <b>CUI Yifan</b>                                       | # <u>CUI Yifan</u> , <i>The Outcomes Effectiveness of Storytelling Intervention in Improving Social Information Processing Deficits among Children with Reactive Aggression</i> , MPhil Thesis, Department of Social and Behavioural Sciences, City University of Hong Kong, Hong Kong, PRC, 06 January 2022.  |
| <b>College, Schools and Academic Departments</b>       |  |
| <b>SCHOOL OF DATA SCIENCE</b>                          |  |
| <b>Scholarly books, monographs and chapters</b>        |  |
| <b>CHEUNG Hang</b>                                     | <u>BENSOUSSAN Alain</u> , # <u>CHEUNG Hang</u> , <u>YAM Sheung Chi Phillip</u> , "Control in Hilbert Space and First-Order Mean Field Type Problem", <i>Stochastic Analysis, Filtering, and Stochastic Optimization - A Commemorative Volume to Honor Mark H. A. Davis's Contributions</i> , , 1st edition, Yin George and Zariphopoulou Thaleia (eds), Springer, Cham, ISBN: 978-3-030-98518-9,978-3-030-98519-6, 22 April 2022, pp 1-32.   |
| <b>All other outputs</b>                               |  |
| <b>CHEUNG Hang</b>                                     | # <u>CHEUNG Hang</u> , <i>Deterministic Control Problems in Hilbert Spaces</i> , MPhil Thesis, School of Data Science, City University of Hong Kong, Hong Kong, PRC, 03 November 2021.   |
| <b>SCHOOL OF ENERGY AND ENVIRONMENT</b>                |  |

Section B: Publications of MPhil Students

| <b>Journal publications</b>                           |   |
|---|---|
| <b>CHAO Luke Christopher</b>                          | # <u>LIN Kaixin</u> , # <u>CHAO Luke Christopher</u> , <u>LEE Hau Him</u> , <u>XIN Ren</u> , # <u>LIU Sai</u> , <u>HO Tsz Chung</u> , <u>HUANG Baoling</u> , <u>YU Kin Man</u> , <u>TSO Chi Yan</u> , "Potential building energy savings by passive strategies combining daytime radiative coolers and thermochromic smart windows", <i>Case Studies in Thermal Engineering</i> , 28, 30 September 2021, doi: <a href="https://doi.org/10.1016/j.csite.2021.101517">https://doi.org/10.1016/j.csite.2021.101517</a> . |
|   | # <u>LIN Kaixin</u> , # <u>CHAO Luke Christopher</u> , <u>HO Tsz Chung</u> , <u>LIN Chongjia</u> , # <u>CHEN Siru</u> , # <u>DU Yuwei</u> , <u>HUANG Baoling</u> , <u>TSO Chi Yan</u> , "A flexible and scalable solution for daytime passive radiative cooling using polymer sheets", <i>Energy and Buildings</i> , 252, 26 August 2021, doi: <a href="https://doi.org/10.1016/j.enbuild.2021.111400">https://doi.org/10.1016/j.enbuild.2021.111400</a> .  |
| <b>Patents, agreements, assignments and companies</b> |   |
| <b>CHAO Luke Christopher</b>                          | # <u>CHEN Siru</u> , <u>TSO Chi Yan</u> , # <u>BAI Shengxi</u> , # <u>CHAO Luke Christopher</u> , <u>HO Tsz Chung</u> , <u>LEE Hau Him</u> , # <u>LIN Kaixin</u> , Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint, Patent No.: HK30053899, Hong Kong, 11 February 2022.   |
|   | # <u>DU Yuwei</u> , <u>TSO Chi Yan</u> , # <u>CHAO Luke Christopher</u> , # <u>CHEN Siru</u> , <u>LEE Hau Him</u> , # <u>LIN Kaixin</u> , # <u>ZHU Yihao</u> , <u>HO Tsz Chung</u> , # <u>ZENG Yijun</u> , A Multi-layer Particle-embedded Passive Radiative Cooling Paint, Patent No.: HK30045313, Hong Kong, 15 October 2021.   |
|   | <u>LEE Hau Him</u> , # <u>BAI Shengxi</u> , # <u>CHAO Luke Christopher</u> , # <u>LIN Kaixin</u> , <u>TSO Chi Yan</u> , <u>HO Tsz Chung</u> , # <u>CHEN Siru</u> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 07 June 2022.   |
|   | <u>LEE Hau Him</u> , # <u>BAI Shengxi</u> , # <u>CHAO Luke Christopher</u> , # <u>LIN Kaixin</u> , <u>TSO Chi Yan</u> , <u>HO Tsz Chung</u> , # <u>CHEN Siru</u> , "Radiative Cooling Paint And Method for Covering A Surface with The Radiative Cooling Paint", Licensing Agreement with Deep Tech, Hong Kong, 08 February 2022.   |

## Section C: Publications of Professional Doctorate Students

| College of Business  |   |
|----------------------|---|
| COLLEGE OF BUSINESS  |   |
| Journal publications |   |
| QIAO Yihong          | QIAN Xuesheng, #QIAO Yihong, WANG Mianjie, WANG Xinyue, CHEN Mengfan, DAI Weihui, "A Lightweight Framework for Perception Analysis Based on Multimodal Cognition-Aware Computing", <i>Frontiers in Neuroscience</i> , 16, 26 May 2022, doi: <a href="https://doi.org/10.3389/fnins.2022.879348">https://doi.org/10.3389/fnins.2022.879348</a> . |
| All other outputs    |   |
| CAI Jiangdong        | #CAI Jiangdong, <i>AH 股價差實證研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 17 August 2021.  |
| CHAN Shou Wei Anna   | #CHAN Shou Wei Anna, <i>The Effects of Message Framing on Search Intent &amp; Purchase Intent in High Tech Product Advertising: Change in Risk as Intermediary</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 23 July 2021.   |
| CHEN Dan             | #CHEN Dan, <i>基於量化產業選擇和機器學習方法的投資組合策略研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 02 March 2022.  |
| CHEN Wei             | #CHEN Wei, <i>品牌價格印象的形成因素及其對消費者支付意願的影響研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 22 December 2021.   |
| DAI Binzheng         | #DAI Binzheng, <i>公司層資訊對產品感知品質的影響機制探究 - 以中國汽車自主品牌為例</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 21 September 2021.   |
| FENG Wenjun          | #FENG Wenjun, <i>Four I's of Transformational Leadership and Team Performance: A Leader Gender and Transactive Memory System Perspective</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 03 September 2021.  |
| GU Xianzhi           | #GU Xianzhi, <i>企業家低碳發展環境認知與企業低碳發展行為“知行關係”的實證研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 06 June 2022.  |
| GUO Jing             | #GUO Jing, <i>房地產市場感知風險對知識型員工創新行為的影響</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 17 January 2022.  |
| HUANG Ruoxi          | #HUANG Ruoxi, <i>中國私募基金經理與基金績效關係的實證分析</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 20 April 2022.   |
| HUNG Fat Wing        | #HUNG Fat Wing, <i>Does a Dual-class Share Ownership Structure Exacerbate Earnings Management Activities? Empirical Analysis of Chinese Companies Listed on US Public Markets</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 26 August 2021.  |
| LI Weidong           | #LI Weidong, <i>企業經營要素和國際化對疫情中企業彈性的影響研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 14 February 2022.  |
| LIU Lijun            | #LIU Lijun, <i>管理者信息系統能力差距感對團隊績效的影響機制研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 09 November 2021.  |
| LYU Qi               | #LYU Qi, <i>產業園區運營商創新服務能力對入園企業的績效影響研究</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 22 April 2022.   |
| NIU Gang             | #NIU Gang, <i>時空壓縮對風險資本決策的影響——來自高鐵直連的證據</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 13 May 2022.   |

Section C: Publications of Professional Doctorate Students

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| <b>RONG Haiming</b>  | #RONG Haiming, 品牌延伸下企業衍生產品的評估因素對消費者信任及口碑傳播意願的影響, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 22 December 2021.   |
| <b>SCHWARTZ Bradley Harris</b>                               | #SCHWARTZ Bradley Harris, <i>Ethical Leadership and Rewards in Global Investment Banking: Preventing the Dark Side</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 01 December 2021.   |
| <b>SUN Li</b>  | #SUN Li, 家庭動機對員工內創業機會識別的影響研究, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 22 December 2021.  |
| <b>TANG Yibin</b>  | #TANG Yibin, "將"來·將來? 外聘明星員工對團隊績效的影響作用, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 07 February 2022.  |
| <b>TSOI Alan Shuyan</b>                                      | #TSOI Alan Shuyan, <i>Pillar One of the Unified Approach of the OECD Base Erosion and Profit Shifting Project: The Income Tax Implication of Chinese Multinational Companies</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 03 November 2021.   |
| <b>XIAO Kaining</b>  | #XIAO Kaining, 基於五維教育培養模式的企業實習對民辦高職院校畢業生自我認知偏差與就業質量的影響研究 - 以廣西經濟職業學院為例, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 30 July 2021.  |
| <b>XUE Lei</b>   | #XUE Lei, 社群團購行銷效果的影響因素研究, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 22 December 2021.   |
| <b>YAN Zhiyuan</b>   | #YAN Zhiyuan, 企業集團子公司總經理的集團信息系統功能感知及心理所有權對子公司績效的影響機制研究, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 09 November 2021.  |
| <b>YE Jian</b>   | #YE Jian, 多元化與管控模式的匹配性對企業績效的影響, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 15 December 2021.  |
| <b>YEH Wai Kwan Wilson</b>                                   | #YEH Wai Kwan Wilson, <i>Real Estate Investment and Analytical Model in Southeast Asian Countries: Cambodia, Myanmar and Vietnam</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 16 August 2021.   |
| <b>YOO Sung Hee</b>  | #YOO Sung Hee, <i>How Website Features Affect Customer Purchase Intention to Online Artwork Sales: Original Painting &amp; Photography</i> , PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 07 January 2022.  |
| <b>ZHANG Aiwen</b>   | #ZHANG Aiwen, 品牌商渠道權力與渠道合作 - 一個權力合法性的視角, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 14 December 2021.   |
| <b>ZHENG Yang</b>  | #ZHENG Yang, 奶粉行業網絡口碑營銷策略研究 - 調節定向和信息框架的匹配作用, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 08 September 2021.   |
| <b>ZHOU Lijun</b>  | #ZHOU Lijun, 中國家族企業職業化的影響因素及績效研究, PhD Thesis, College of Business, City University of Hong Kong, Hong Kong, PRC, 14 December 2021.  |
| <b>College of Engineering</b>                                |   |
| <b>DEPARTMENT OF ADVANCED DESIGN AND SYSTEMS ENGINEERING</b> |   |
| <b>Journal publications</b>                                  |   |
| <b>HO Tak Cho Eric</b>                                       | #WANG Zezhong, #HO Tak Cho Eric, ZWETSLOOT Inez, "Accuracy and precision of the CSLT measurement system: An experiment to defect diagnoses in bored piles", <i>HKIE Transactions Hong Kong Institution of Engineers</i> , 28(4), 31 December 2021, pp 176-185, doi: <a href="https://doi.org/10.33430/V28N4THIE-2021-0011">https://doi.org/10.33430/V28N4THIE-2021-0011</a> . |
| <b>LEE Ka Ho</b>   | #LEE Ka Ho, MAN Siu Shing, CHAN Hoi Shou Alan, "Cogeneration system acceptance in the hotel industry: A qualitative study", <i>Journal of Hospitality and Tourism Management</i> , 51, 18 April 2022, pp 339-345, doi: <a href="https://doi.org/10.1016/j.jhtm.2022.04.004">https://doi.org/10.1016/j.jhtm.2022.04.004</a> .  |

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| <b>All other outputs</b>                         |   |
| <b>KEUNG Yee Man</b>                             | # <a href="#">KEUNG Yee Man</a> , <i>Data-driven Approach for Performance Enhancement in Maintenance Services of Non-residential Gas-fired Appliances</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 22 April 2022.                                       |
| <b>LO Shiu Wing Brian</b>                        | # <a href="#">LO Shiu Wing Brian</a> , <i>The STOPPER Model for Digital Transformation: A Case Study of Cloud-based Digital Mutual Fund Fact Sheet</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 04 May 2022.  |
| <b>WAN Hoi Chi Jackson</b>                       | # <a href="#">WAN Hoi Chi Jackson</a> , <i>Development of an Internet of Health Things (IoHT) Data Acquisition System and Intelligent Risk Assessment System for Elderly Care Customization</i> , PhD Thesis, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, PRC, 21 April 2022. |
| <b>College, Schools and Academic Departments</b> |   |
| <b>SCHOOL OF LAW</b>                             |   |
| <b>Journal publications</b>                      |   |
| <b>LI Yi</b>                                     | WANG Zhen, # <a href="#">LI Yi</a> , "兴奋剂刑法属性的司法认定研析——以《关于审理走私、非法经营、非法使用兴奋剂刑事案件适用法律若干问题的解释》为范本", <i>山东警察学院学报</i> , 2021年(5(总第179)), September 2021, pp 38-44.   |
| <b>All other outputs</b>                         |   |
| <b>CAI Shaogang</b>                              | # <a href="#">CAI Shaogang</a> , <i>中國民事訴訟「調判一體化」研究</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 06 April 2022.   |
| <b>LIU Qiong</b>                                 | # <a href="#">LIU Qiong</a> , <i>民族風俗習慣在解決民事糾紛中的作用——以新疆維吾爾自治區為視角</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 12 July 2021.   |
| <b>LOK Chi Hung</b>                              | # <a href="#">LOK Chi Hung</a> , <i>A Critical Analysis and Review of the Financial Regulations for Private Banking in Hong Kong</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 26 January 2022.  |
| <b>WANG Hui</b>                                  | # <a href="#">WANG Hui</a> , <i>中國司法體系的二元制建構——設立跨區域法院的理念基礎與路徑方向</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 02 November 2021.  |
| <b>XIE Lu</b>                                    | # <a href="#">XIE Lu</a> , <i>誰是涉外商事訴訟中的強者？</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 21 April 2022.   |
| <b>XU Qingshuang</b>                             | # <a href="#">XU Qingshuang</a> , <i>關於《反不正當競爭法》一般條款法律適用規則研究</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 24 August 2021.   |
| <b>YIN Yuanyuan</b>                              | # <a href="#">YIN Yuanyuan</a> , <i>衍生作品著作權法中法律地位問題研究——法律、現實及對策</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 25 August 2021.  |
| <b>ZANG Desheng</b>                              | # <a href="#">ZANG Desheng</a> , <i>認罪認罰從寬制度中被追訴人權利保護研究——以公正與效率的動態平衡為基點</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 10 November 2021.  |
| <b>ZHAO Guilong</b>                              | # <a href="#">ZHAO Guilong</a> , <i>通過判例創制規則：以中國司法審查標準為視角</i> , PhD Thesis, School of Law, City University of Hong Kong, Hong Kong, PRC, 13 May 2022.   |