BRIEF CURRICULUM VITAE

Professor Paul K Chu

Department of Physics

Department of Materials Science and Engineering

Department of Biomedical Engineering

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https://www.cityu.edu.hk/phy/appkchu/plasma/Paul%20Chu/paul chu.htm



Research Interests:

- Plasma Science and Engineering
- Surface Science and Engineering
- Biomedical, Energy, Photonic, Sensing, and Sustainable Materials and Technology

Education:

- PhD in Chemistry, **Cornell University**, Ithaca, New York 14853, USA (1982)
- MS in Chemistry, **Cornell University**, Ithaca, New York 14853, USA (1979)
- BS (Cum Laude & Phi Kappa Phi) in Mathematics (Hon), **The Ohio State University**, Columbus, Ohio 43210, USA (1977)

Present Academic Position:

◆ Chair Professor of Materials Engineering, Department of Physics (2017 – present) / Department of Materials Science and Engineering (2017 – present) / Department of Biomedical Engineering (2019 – present), City University of Hong Kong (CityU), Hong Kong

Present Professional Positions:

- ♦ Council Member, **Hong Kong Academy of Engineering Sciences** (2020 present)
- ♦ Member, Plasma Innovation Prize (PIP) Selection Committee, Association of Asia Pacific Physical Societies (AAPPS-DPP) (2020 – present)
- ♦ Board Member and Founder, **Plasma Technology Limited**, Hong Kong (1998 present)
- ♦ Chairman, International Plasma-Based Ion Implantation and Deposition Committee (2005 present)
- ♦ Member, Ion Implantation Technology International Committee (2004 present)
- ◆ Editorial Board Member, International Journal of Molecular Engineering (2006 present)
- ♦ Editorial Board Member, **Surface and Interface Analysis** (2006 present)
- ♦ Editorial Board Member, **Cancer Nanotechnology** (2009 present)
- ♦ Editorial Board Member, **Surface and Coatings Technology** (2011 present)
- ♦ Editorial Board Member, **Advanced Materials Interfaces** (2013 present)
- ◆ Editorial Board Member, Journal of Vacuum Science and Technology A & B (2022 present)
- ◆ Counselor, **High Voltage** (2020 present)

Awards and Honors:

- **Highly Cited Researcher** in Cross-Field (Clarivate Analytics, Web of Science, 2023)
- **Gold Medal**, 48th International Exhibition of Inventions Geneva, "Low Cost and Large-Scale Production of Carbon Nanotubes" (2023)
- Materials Science Leader Award (Research.com, 2023)
- Highly Cited Researcher in Cross-Field (Clarivate Analytics, Web of Science, 2022)
- Highly Cited Researcher in Materials Science (Clarivate Analytics, Web of Science, 2021)
- **Highly Cited Researcher** in Cross-Field (Clarivate Analytics, Web of Science, 2019 2020)
- **Highly Cited Author** (UK Royal Society of Chemistry, 2020)

- Anhui Province (China) Science and Technology Award (Third Class) 中國安徽省科學技術三等獎 for "Magnetohydrodynamic Behavior in Dense Plasma 致密離子體子中磁流體力學行為的研究" (Anhui Province, China, 2020)
- **Hubei Province (China) Natural Science Award (Second Class)** 中國湖北省自然科學二等獎 for "Surface Biofunctionalization Design and Control of Titanium Metal 金屬鈦表面生物功能化設計及性能調控" (Hubei Province, China, 2018)
- Chinese Ministry of Education Natural Science Award (First Class) 中國教育部自然科學一等獎 for "Study on Photoluminescence Mechanisms and Raman Scattering of Semiconductor Micro-Nanostructures 半導體微納結構光致發光機制與拉曼散射研究" (Chinese Ministry of Education, China, 2017)
- **Highly Cited Researcher** in Materials Science (Clarivate Analytics, Web of Science, 2016 2018)
- Leader of Shenzhen Peacock Team 中國深圳孔雀團隊帶頭人 (2016 2021)
- Thousand Talents of China 中國國家千人 (2016 2021)
- Leading Talents of Guangdong Province of China 中國廣東省領軍人才 (2016 2021)
- The President's Award (City University of Hong Kong, 2015 and 2016)
- Fellow of HKAES (Hong Kong Academy of Engineering Sciences) 香港工程科學院院士 for "seminal contributions to surface functionalization and engineering of functional materials and industrial components by plasma-based and related technology" (2014)
- **Fellow** of **MRS** (Materials Research Society) for "outstanding contributions to the development of plasma immersion ion implantation for modifying materials surfaces to improve functional properties and obtain novel structures for industrial and biomedical applications" (2013)
- Shanghai (China) Natural Science Award (First Class) 中國上海自然科學一等獎 for "Study on Plasma Surface Modification and Biocompatibility of Biomedical Titanium Alloys 醫用鈦合金表面等離子體改性及生物相容性研究" (Shanghai Government, China, 2011)
- Hong Kong Awards for Industry: Technological Achievement Certificate of Merit (Hong Kong Government, 2011)
- **Fellow** of **APS** (American Physical Society) for "seminal contributions to the understanding of plasmamaterials interactions as well as development and applications of innovative plasma-based surface modification and materials synthesis technologies and instrumentation" (2008)
- James W Mayer Lectureship (Materials Research Society Taiwan, 2008)
- Award of Excellence for "his work that has led to a much better fundamental understanding of how energetic plasma ions impact on and interact with surfaces. A myriad of innovative plasma technologies and applications, having industrial impact, have also been developed" (Research Excellence Awards Scheme, City University of Hong Kong, 2007)
- IEEE / NPSS (Nuclear and Plasma Sciences Society) Merit Award for "contributions to the understanding, development, and applications of plasma-based surface modification and thin film deposition technologies" (2007)
- **Fellow** of **AVS** (American Vacuum Society) for "contributions to plasma science and surface engineering of materials and industrial components" (2006)
- Hong Kong Awards for Industry: Technological Achievement Certificate of Merit (Hong Kong Government, 2004)
- Certificate of Merit in Applied Research (City University of Hong Kong, 2004)
- **Fellow** of **IEEE** (Institute of Electrical and Electronics Engineers) for "contributions to the understanding of plasma implantation and deposition" (2003)
- **Fellow** of **HKIE** (Hong Kong Institution of Engineers) (1999)
- Excellent Research Rating (City University of Hong Kong, 1999)
- Excellent Research Rating (Hong Kong Research Grants Council, 1998)
- Elected Scientific Member of The Böhmishe Physical Society for "contributions to the fields of ion beam analysis and plasma source ion implantation" (1997)
- Sigma Xi (Cornell University, Ithaca, New York, USA, 1982)

- **DuPont Teaching Award** (Cornell University, Ithaca, New York, USA, 1978)
- **Phi Kappa Phi** (The Ohio State University, Columbus, Ohio, USA 1977)
- Summa Award (The Ohio State University, Columbus, Ohio, USA 1976)
- The Arts and Sciences Award (The Ohio State University, Columbus, Ohio, USA 1976)
- American Chemical Society Summer Fellowship Award (1976)

Patents, Guest Editorships, Best Paper Awards, and Publications:

- 15 United States patents granted (US 6051073, US 6113735, US 6120660, US 6186091, US 6217724, US 6228176, US 6269765, US 6740843, US 7589474B2, US 7741621B2, US 7803234B2, US 8119208B2, US 8981096B2, US 9711738B2, US 10603412B2)
- 15 Chinese patents granted (ZL-02240946.7, ZL02275571.3, ZL00106152.6, ZL02141205.7, ZL200410108295.1, ZL200410018294.7, CN101003868A, ZL201080008828.1, ZL2017-0295567.X, CN103361595B, CN103834984A, CN103816574A, CN207283895U, CN110592571B, and CN110896607B)
- 1 European patent granted (EP1835946B1)
- Senior Guest Editor, IEEE Transactions on Plasma Science, vol. 47, no. 5 (2019)
- Managing Guest Editor, Surface and Coatings Technology, vol. 365 (2019)
- Co-Guest Editor, Scanning, vol. 2018, ID 7546310 (2018)
- Chief Guest Editor, Surface and Coatings Technology, vol. 312 (2017)
- Chief Guest Editor, Surface and Coatings Technology, vol. 306, part A (2016)
- Co-Guest Editor, Surface and Coatings Technology, vol. 233 (2013)
- Co-Guest Editor, Surface and Coatings Technology, vol. 229 (2013)
- Chief Guest Editor, Vacuum, vol. 89 (2013)
- Co-Guest Editor, Journal of Nanoscience and Nanotechnology, vol. 11, no. 12 (2011)
- Co-Guest Editor, IEEE Transactions on Plasma Science, vol. 39, no. 11 (2011)
- Special Issue Editor, Materials Science and Engineering Reports, vol. 70, no. 3 6 (2010)
- Co-Guest Editor, IEEE Transactions on Plasma Science, vol. 37, no. 7 (2009)
- Co-Guest Editor, Surface and Coatings Technology, vol. 201, no. 15 (2007)
- Co-Guest Editor, IEEE Transactions on Plasma Science, vol. 34, no. 4 (2006)
- Co-Guest Editor, IEEE Transactions on Plasma Science, vol. 33, no. 2 (2005)
- Co-Guest Editor, IEEE Transactions on Plasma Science, vol. 32, no. 2 (2004)
- Co-author of 1 book and co-editor of 8 books
- 15 best paper awards
- More than 40 book chapters, 2,000 journal papers, and 1,000 conference publications including more than 150 plenary / keynote / invited papers and presentations

Honorary Professorships (Starting Year):

- ♦ Fudan University, Shanghai, China (1993)
- ♦ **Peking University**, Beijing, China (1993)
- ♦ Southwest Jiaotong University, Chengdu, China (1998)
- ♦ Southwestern Institute of Physics, China National Nuclear Corporation, Chengdu, China (1998)
- ♦ Shanghai Jiaotong University, Shanghai, China (2003)
- ♦ **Harbin Institute of Technology**, Harbin, China (2005)
- ♦ Nanjing University, Nanjing, China (2005)
- ♦ **Jiamusi University**, Jiamusi, China (2005)
- ♦ Shanghai Institute of Ceramics, Chinese Academy of Sciences, Shanghai, China (2006)
- ♦ Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, China (2006)
- ♦ Xi'an Jiaotong University, Xi'an, China (2008)
- ♦ Sichuan University, Chengdu, China (2008)

- ♦ Wuhan University of Science and Technology, Wuhan, China (2008)
- ♦ Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China (2014)
- ♦ Hohai University, Nanjing, China (2018)
- **Taiyuan University of Technology**, Taiyuan, China (2019)
- ♦ Jinan University, Guangzhou, China (2019)

Past Professional / Academic Positions:

- ♦ Associate Editor, **Materials Science and Engineering: Reports** (2005 2024)
- ♦ Editorial Board Member, **Biomaterials** (2010 2024)
- ♦ Supervising Senior Editor, **IEEE Transactions on Plasma Science** (2013 2023)
- \Diamond Member and Subpanel Chair, **Membership Committee**, **Hong Kong Academy of Engineering Sciences** (2016 2022)
- ♦ Editorial Board Member, Current Materials Science (changed from Recent Patents on Materials Science in 2019) (2008 2022)
- ♦ Board Member and Co-Founder, **China Morefound Technology Ltd.**, Shenzhen, China (2017 2021)
- ♦ Honorary Director, International Research and Development Center for Surface Engineering of Materials, Xian Jiaotong University, China (2009 2021)
- ♦ Editorial Board Member, **High Voltage** (2020)
- ♦ Editorial Board Member, **Materials and Surfaces for Biocompatible Systems** (2015 2020)
- ♦ Editorial Board Member, **Versita (Physics)** (2012 2020)
- ♦ Member, IEEE Nuclear and Plasma Sciences Society Fellow Evaluation Committee (2009 2019)
- ♦ Board Member and Co-Founder, **Chengdu PulseTech Electrical Co. Ltd.**, Chengdu, China (2001 2018)
- ♦ Chair Professor of Materials Engineering, Department of Physics & Materials Science, City University of Hong Kong (CityU), Hong Kong (2001 2017)
- ♦ Member, Hong Kong Research Grants Council (RGC) Hong Kong PhD Fellowship Scheme Selection Committee (2012 2015)
- ♦ Senior Editor, **IEEE Transactions on Plasma Science** (2006 2013)
- ♦ Editorial Board Member, Plasma Sources Science and Technology (2008 2012)
- ♦ Associate Editor, International Journal of Plasma Science and Engineering (2007 2010)
- ♦ Technical Advisor, National Materials & Surface Engineering Research and Development Center (Project 863), Shenzhen, China (2001 2010)
- ♦ Member, IEEE Plasma Science and Application Executive Committee (PSAC) (2007 2009)
- ♦ Member, American Physical Society Division of Materials Physics Nominating Committee (2008 2009)
- ♦ Advisor, **Shenzhen Polytechnic**, Shenzhen, China (2007 2009)
- ♦ Editorial Board Member, **Nuclear Instruments & Methods in Physics Research B: Beam Interactions** with Materials and Atoms (NIM-B) published by Elsevier Science (2001 2006)
- ♦ Member, Hong Kong Research Grants Committee (RGC) Engineering Panel (2000 2006)
- ♦ Coordinator, **International Plasma Doping Users Group** (1998 2005)
- ♦ Committee Member, Hong Kong Institution of Engineers Materials Division (2004 2005)
- ♦ Member, International Plasma-Based Ion Implantation and Deposition Committee (1996 2004)
- ♦ Professor, **Department of Physics & Materials Science, City University of Hong Kong (CityU)**, Hong Kong (1996 2001)
- ♦ President and Founder, **Evans Asia Limited**, Asia and USA (1990 2001)
- \Diamond Advisor, National Microanalysis Center for Microelectronic Materials & Devices, Shanghai, China (1991-2000)
- ♦ Newsletter Editor, **Asia-Pacific Microanalysis Association** (1993 2000)
- ♦ Specialist, ISO 9000/2 Certification and Audit, **Det Norske Veritas**, Hong Kong (1995 1999)
- ♦ Member of Technical Advisory Board, Silicon Genesis Corporation, Campbell, California, USA (1997 1998)

- ♦ Technical / Business Consultant, **Physical Electronics Corporation**, Minnesota, USA (1996 1998)
- ♦ Visiting Professor, **Department of Physics & Materials Science, City University of Hong Kong**, Hong Kong (1994 1996)
- Director of Research, Materials Research Center, City University of Hong Kong, Hong Kong (1993 1996)
- ♦ Visiting Fellow, Department of Applied Science, City Polytechnic of Hong Kong, Hong Kong (1990 1994) voted "Best Lecturer" and "Best Speaker" by students in 1993
- ♦ Business Consultant, **Balazs Analytical Laboratories**, Sunnyvale, California, USA (1990 1996)
- ♦ Technical / Business Consultant, **Cameca Instruments**, Paris, France (1990 1993)
- ♦ Business Consultant, **AMER-TEM**, Sunnyvale, California, USA (1990 1991)
- ♦ Business Consultant, **Solecon Laboratory**, San Jose, California, USA (1990 1991)
- ♦ Assistant to the Director, **Charles Evans & Associates**, Redwood City, California, USA (1990)
- ♦ Manager, SIMS Services, **Charles Evans & Associates**, Redwood City, California, USA (1986 1989)
- ♦ Senior Analyst / Associate Manager, Charles Evans & Associates, San Mateo, California, USA (1985 1986)
- ♦ Staff Analyst, Charles Evans & Associates, San Mateo, California, USA (1982 1984)
- ♦ Research Assistant, **Cornell University**, Ithaca, New York, USA (1979 1982)
- ♦ Teaching Assistant, **Cornell University**, Ithaca, New York, USA (1977 1979) won DuPont Teaching Award in 1978
- ♦ Research Assistant, **The Ohio State University**, Columbus, Ohio, USA (1977)
- ♦ Research Chemist, **New England Aquarium**, Boston, Massachusetts, USA (1976) won American Chemical Society Summer Fellowship
- ♦ Laboratory Assistant, **Wingate University**, Wingate, North Carolina, USA (1974 1975)

Research and Industrial Contracts (♦ Ongoing, ◊ Completed):

- ◆ Ion Draft Purification Technology 離子風淨化技術 (*P. K. Chu*), Toshiba (Midea) Home Appliances Manufacturing (Nanhai) Co., Ltd. 東芝家用電器制造(南海)有限公司 Contract Research 9239128 [**HK\$ 594,000**], 2024 2025
- ◆ Research on Low-Cost Packaging-Penetrating Sterilization Technology 低成本穿透包装殺菌技術研究 (*P. K. Chu*), Toshiba (Midea) Home Appliances Manufacturing (Nanhai) Co., Ltd. 東芝家用電器制造(南海)有限公司 Contract Research 9239129 [HK\$ 464,400], 2024 2025
- ♦ Biocompatible Titanium Implants with Antibacterial Capability Arising from the Synergistic Effects of Mechanical and Electrical Interactions and Quantitative Bacteria Sensing Ability Based on Electron Transfer (G. M. Wang and P. K. Chu), Hong Kong Health and Medical Research Fund (HMRF) 2120972 (CityU 9211320) [HK\$ 1,000,000], 2022 − 2024
- ♦ Multifunctional Implants with Non-Leaching Antibacterial Effects Based on Physical Interaction and Bacterial Sensing Property Based on Electrical Interaction (*P. K. Chu*), Hong Kong PDFS RGC Postdoctoral Fellowship Scheme PDFS2122-1S08 (CityU 9061014) [HK\$ 835,160], 2021 − 2024
- ◆ Fabrication, Characterization, and Properties of Functional Materials (*P. K. Chu*), City University of Hong Kong Donation Research Grant 9229021 [HK\$ 5,449,500], 2020 2026
- ◆ Fabrication of Durable Surface Coatings (*P. K. Chu*), City University of Hong Kong Internal Fund for ITF Projects 9678148 [HK\$ 798,545], 2018 2025
- ♦ Surface Modification and Fabrication of Advanced Materials (*P. K. Chu*), City University of Hong Kong Donation Research Grant 9220061 [HK\$ 6,315,679], 2012 2026
- ♦ Investigation of Materials for Advanced Lithium Battery Anodes (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7005505 [HK\$ 280,000], 2020 2024
- Study on the Preparation of High Voltage Insulation Materials for 5G Antenna Chip Components (*P. K. Chu*), Shenzhen Hong Kong Technology Cooperation Funding Scheme (TCFS) GHP/149/20SZ (CityU 9440296) [HK\$ 5,219,400], 2022 2024

- Pulsed Magnetron Plasma 3D Printing for Metallic Components 適用於金屬部件的磁控脉衝等離子體 3D 打印 (*P. K. Chu*), Shenzhen Hong Kong Innovative Collaborative Research and Development Program (深港創新圏聯合研發項目) CityU 9240014 (Shenzhen SGLH20181109110802117) [HK\$ 220,000] 2019 − 2021
- ♦ **Ti-Based Biomaterials with Capacitance-Based Antibacterial Properties** (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7005265 [**HK\$ 100,000**], 2019 2021
- ♦ Development of Key Technology to Attain a Novel Kind of Artificial Acetabulum (*P. K. Chu*), Guangdong Hong Kong Technology Cooperation Funding Scheme (TCFS) GHP/085/18SZ (CityU 9440230) [HK\$ 4,687,400], 2019 − 2021
- ◇ Medical Biomimetic Ti Alloys Research and Development Team 醫用仿生鈦合金研發團隊 (P. K. Chu, K. W. K. Yeung, R. K. Y. Fu, P. H. Li, and L. P. Tong), Shenzhen City Foreign High-Level Talents Peacock Team, China 深圳市海外高層次人才孔雀團隊 [Chinese RMB 20,000,000], 2016 2021
- ♦ **Leading Talents of Guangdong Province** 廣東省領軍人才 (*P. K. Chu*), Guangdong Province, China [Chinese RMB 9,000,000], 2016 2021
- Nanostructured Ti-Based and Polymeric Orthopedic Implant Materials with Tailored Mechanobiocidal and Osteogenic Properties (*P. K. Chu*), Hong Kong Research Grants Council (RGC) General Research Funds CityU 11205617 [HK\$ 582,000 plus HK\$ 29,100 matching fund from City University of Hong Kong], 2018 2020
- ♦ Investigation of Light Absorption by Perovskite and Related Photovoltaic (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7005105 [HK\$ 100,000], 2018 2020
- ♦ UAV Aluminum Housing for Unmanned Aerial Vehicles for Extreme Environments in Smart Cities (*P. K. Chu*), Hong Kong Innovation and Technology Fund (ITF) ITS/452/17FP (CityU 9440179) [HK\$ 4,178,618], 2018 − 2020
- ♦ An Empirical Study of Plasma Treatment Technology on Pilling Tendency of Wool Knitted Fabrics (E. Y. M. Keh, L. Yao, X. Liao, X. X. Huang, A. Chan, B. Tai, J. Leung, L. Ru, L. Chi, and P. K. Chu), Hong Kong Innovation and Technology Fund (ITF), Hong Kong Research Institute of Textiles and Apparel ITP/056/17TP (CityU 9444901) [HK\$ 840,000], 2018
- ♦ Surface Functionalized Polyetheretherketone (PEEK) Biomedical Implants with Enhanced Osseointegration for Osteoporotic and Related Orthopedic Applications (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667144 [HK\$ 240,000], 2017 − 2018
- ♦ Surface Modification of Biometals by Plasma-Based Technology (*P. K. Chu*), Hong Kong Research Grants Council (RGC) General Research Funds CityU 11301215 [HK\$ 696,029 plus HK\$ 34,801 matching fund from City University of Hong Kong], 2016 − 2018
- ♦ Self-Cleaning Non-Icing Shape Memory Alloy Thin Film (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7004644 [HK\$ 100,000], 2016 − 2018
- ♦ Novel Method to Fabricate Aluminum-Doped Zinc Oxide (AZO) Films for Industrial Applications (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667122 [HK\$ 200,000], 2016 − 2018
- ♦ High Performance and High Value Adding Energy Nitrided Mineral Storage Materials (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667104 [HK\$ 200,000], 2015 2016
- ♦ Preliminary Investigation of Plasma Surface Modification of Magnesium Alloys for Biodegradation Improvement (*P. K. Chu*), City University of Hong Kong of Strategic Research Grant 7004188 [HK\$ 100,000], 2014 − 2015
- Novel Composite Polycrystalline Thin Film Solar Cell and Comprehensive Fabrication Platform (*P. K. Chu*), Guangdong Hong Kong Technology Cooperation Funding Scheme (TCFS) GHP/015/12SZ (CityU 9440103 and CityU 9678070) [HK\$ 1,999,750], 2013 2015
- ♦ Three-Dimensional Mesh-Assisted Plasma Immersion Technology for Enhancement of Corrosion Resistance and Antimicrobial Properties of NiTi-Based Orthopedic Devices (*P. K. Chu*), Hong Kong Research Grants Council (RGC) General Research Funds CityU 112212 [HK\$ 700,000 plus HK\$ 35,000 matching fund from City University of Hong Kong], 2013 − 2015

- ◆ 手持式介質阻擋放電等離子體滅菌裝置 Barrier Plasma Discharge Device for Bacteria Killing (P. K. Chu), Yunnan Aerospace Industry Corporation Contract Research 9231083 [HK\$ 1,830,000], 2013 2015
- ♦ Novel Visible-Light-Based Non-Enzymatic Detector for Diabetes (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667085 [HK\$ 200,000], 2014 2015
- ♦ Enhanced Plasma Generation for Plasma Etching of Printed Circuit/Wiring Board (P. K. Chu, D. T. K. Kwok, H. S. Cheng), Hong Kong Innovation and Technology Fund (ITF) ITS/080/13FP (CityU 9440105 and CityU 9678074) [HK\$ 999,530], 2013 2014
- ♦ Enhancement of the Biofunctionality of Polyetheretherkytone (PEEK) Materials Using Plasma Surface Technology (K. W. K. Kwok, K. D. K. Luk, D. Chan, P. K. Chu, and K. M. C. Cheung), Hong Kong Research Grant Council General Research Funds 719411 [HK\$ 933,800], 2012 − 2014
- ♦ **Plasma Surface Modification of Functional Materials** (*P. K. Chu*), City University of Hong Kong Research Grant 9360110 [HK\$ 9,335,791], 2005 2014
- ♦ Forging of a Metal Liner into SCWG Vessels by Plasma Nitriding Enhanced by Hollow Cathode Discharge (*P. K. Chu, D. T. K. Kwok, K. H. Lai, H. S. Cheng*), City University of Hong Kong Innovation to Realization Funding (I2RF) Scheme 6351017 [HK\$ 329,165], 2013 − 2014
- ♦ **Pocket-Size Battery-Operated Plasma Torch** (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667069 [**HK\$ 200,000**], 2013 2014
- ♦ Development of a Flexible Catalyst Support Material for Automotive Catalytic Converter and its Coating Method (*P. K. Chu and D. T. K. Kwok*), Hong Kong Innovative and Technology Fund (ITF) ITS/057/12 (CityU 9440089) and CityU 9678054 [HK\$ 1,094,750 plus HK\$ 129,750 matching fund from City University of Hong Kong], 2012 − 2014
- ♦ Plasma-Surface-Treated Internal Bone Fixation Surgical Implants with Shape Memory Effects (P. K. Chu), City University of Hong Kong Applied Research Grant 9667066 [HK\$ 1,168,560], 2012 2014
- ♦ Advanced Plasma Immersion Technology and Applications (*P. K. Chu*), Hong Kong Research Grants Council General Research Funds CityU 112510 [HK\$ 831,426 plus HK\$ 20,000 matching fund from City University of Hong Kong], 2011 2013
- ♦ **Application of Plasma Surface Treatments to Biomaterials** (*P. K. Chu*), City University of Hong Kong Matching Research Grant 9678021 [HK\$ 38,671], 2010 2013
- ♦ Plasma Surface Treatment of NiTi Growing Rods for Correction of Pediatric Scoliosis (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667038 [HK\$ 200,000], 2011 2012
- ♦ Optimized Antenna and Sample Stage Designs Based on 40 kHz Pulse Generator for RF Plasma Cleaning Machine (P. K. Chu, D. T. K. Kwok), 珠海寶豐堂電子科技有限公司 Contract Research 9231075 [HK\$ 198.050]. 2012
- ♦ Application of Quasi-Direct-Current Plasma Immersion Technique to Enhancement of Surface Properties of Automobile Components (P. K. Chu, D. T. K. Kwok, and T. Xiong), Hong Kong Innovative and Technology Fund (ITF) ITP/016/10AP (CityU 9442004) and CityU 9678023 [HK\$ 2,242,316 plus HK\$ 389,968 matching fund from City University of Hong Kong], 2010 2012
- ◇ 糖尿病腎損傷尿液腎臟上皮细胞分析的臨床意義 Clinical Studies of Kidney Skin Cells Damaged by Urine in Diabetic Patients (A. Peng, P. K. Chu, et al.), Chinese National High Technology Research and Development 863 Project (中國國家高科技研究發展計劃 863 計劃) 2009AA02Z416 (CityU 9231026) and CityU 9678028 [Chinese RMB 500,000 plus HK\$17,528 matching fund from City University of Hong Kong], 2009 2011
- Plasma Immersion Ion Implantation and Deposition System for Microelectronics, Optoelectronics, and Nanotechnology Research (P. K. Chu, P. C. H. Chan, K. W. Cheah, K. M. C. Cheung, A. H. P. Ho, K. D. K. Luk, C. Surya, and M. Wong), Hong Kong Research Grants Council Special Equipment Grant CityU SEG_CityU05 [HK\$ 4,164,882 plus HK\$ 1,190,000 matching fund from City University of Hong Kong], 2008 2011
- ♦ Prevention of Orthopaedic Implant-Related Bacterial Infections Using Novel Plasma Surface Treatments (K. W. K. Yeung, F. Leung, R. Kao, P. K. Chu, K. M. C. Cheung, K. D. K. Luk, and V. Tam), AO Foundation Research Fund S-09-75Y [80,000 Swiss Franc], 2010 2011

- ♦ Preliminary Investigation on Application of Quasi-Direct-Current Plasma Immersion Technique to Enhancement of Surface Properties of Automobile Components (P. K. Chu and D. T. K. Kwok), City University of Hong Kong Applied Research Grant 9667028 [HK\$ 200,000], 2010 – 2011
- ◇ Prevention of Orthopaedic Implant Related Bacterial Infections by Using Novel Plasma Surface Treatments (K. W. K. Yeung, R. Y. T. Kao, K. M. C. Cheung, K. D. K. Luk, and P. K. Chu), Hong Kong Innovation and Technology Fund (ITF) Innovation and Technology Support Program (ITSP) Tier 3 ITS/342/09 (CityU 9449007) [HK\$ 760,000], 2010 2011
- ♦ Development of Novel Plasma Modified Metallic Materials for Anterior Cruciate Ligament Reconstruction (K. W. K. Yeung, D. Chan, K. M. C. Cheung, P. K. Chu, and P. Yau), Hong Kong Research Grants Council General Research Funds CityU 123708 [HK\$ 937,210 plus HK\$ 93,721 matching fund from City University of Hong Kong], 2009 − 2011
- ♦ Improvement of the Biofunctionality of PEEK Materials Using Novel Plasma Surface Technology (K. W. K Yeung, K. M. C. Cheung, P. K. Chu, K. D. K. Luk, and H. Pan), The University of Hong Kong Seed Funding Program for Basic Research 10400532.33137.21000.323.01 [HK\$ 110,000], 2009 − 2011
- ♦ Enhancement of Surface Properties of Biomedical Expanded Polytetrafluoroethylene (ePTFE) Using Plasma and Related Techniques (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7008009 [HK\$ 180,000], 2009 − 2011
- ♦ Highly-Strained Thin Solid Films for Rolled-Up Nanotechnology (P. K. Chu, R. K. Y. Fu, Y. F. Mei, and O. G. Schmidt), Germany / Hong Kong Research Grants Council Joint Research Scheme G_HK019/09 (9053004) [HK\$ 30,000], 2010 2010
- ♦ Metal-Gate/High-k/Strained-Si Multi-Stack Structure for Advanced CMOS Technology (*P. K. Chu*), Hong Kong Research Grants Council General Research Funds CityU 112608 [HK\$ 452,554 plus HK\$ 45,255 matching fund from City University of Hong Kong], 2009 − 2010
- ♦ Controlled Surface Micro- and Nano-Patterning of Biomaterials for Enhanced Biological Properties (*P. K. Chu and N. W. Cheung*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 112307 [HK\$ 961,920 plus HK\$ 96,192 matching fund from City University of Hong Kong], 2008 − 2010
- ♦ Development of Novel Biodegradable Metallic Materials for Orthopedics (*K. W. K. Yeung, P. K. Chu, K. M. C. Cheung, D. Chan, and K. Luk*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 718507 [HK\$ 739,200], 2007 2010
- ♦ Conference Grant for 3rd IEEE International NanoElectronics Conference (INEC) 2010 (*P. K. Chu*), The Croucher Foundation [HK\$ 100,000], 2009 2010
- ♦ Plasma Immersion Ion Implantation and Deposition (PIII&D) Equipment (P. K. Chu, P. C. H. Chan, K. W. Cheah, K. M. C. Cheung, A. H. P. Ho, K. D. K. Luk, C. F. Ng, C. Surya, M. Wong, and S. P. Wong), Hong Kong Research Grants Council Central Allocation Equipment Grant CityU 1/06C [HK\$ 2,800,000 plus HK\$ 150,000 matching fund from The University of Hong Kong and HK\$ 280,000 from City University of Hong Kong], 2007 2010
- ♦ Enhancement of Surface Biological / Biomedical Properties of Medical Polymers by Medium-Energy Plasma Processes (*P. K. Chu*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 112306 [HK\$ 1,495,125 plus HK\$ 149,513 matching fund from City University of Hong Kong], 2007 − 2009
- Optimization and Commercialization of Novel Metallic Materials for Orthopaedic Use (K. M. C. Cheung, K. W. K. Yeung, K. D. K. Luk, P. K. Chu, W. W. Lu, D. Chan, C. Y. Chung, M. Zhu, X. P. Zhang, and J. Karlberg), Guangdong Hong Kong Technology Cooperation Funding Scheme, Hong Kong Innovation and Technology Fund (ITF) GHP/019/05 (CityU 9449004) [HK\$ 9,300,000], 2006 2009
- ♦ **Design and Construction of New Plasma Laboratory** (*P. K. Chu*), City University of Hong Kong Central Funding [HK\$19,000,000], 2008 2009
- ♦ Enhancement of Corrosion Properties of Biodegradable Magnesium Alloys Used in Orthopedic Implants by Means of Plasma Surface Modification (*P. K. Chu*), City University of Hong Kong Applied Research Grant 9667011 [HK\$ 1,000,000], 2007 − 2009

- ♦ Controlled Synthesis and Characterization of One-Dimensional Zinc Oxide Nanostructures on Conducting Brass Substrate (*P. K. Chu and K. F. Huo*), City University of Hong Kong Strategic Research Grant 7002138 [HK\$ 180,000], 2007 − 2008
- ♦ Development of Commercial Plasma-Treated Orthopedic Implants with Shape Memory and Super-Elastic Properties (*P. K. Chu, C. Y. Chung, K. M. C. Cheung, and K. D. K. Luk*), City University of Hong Kong Applied Research Grant 9667002 [HK\$ 1,140,000], 2006 − 2008
- ♦ Accurate Measurement of Secondary Electron Emission Coefficients of Dielectric Surfaces (P. K. Chu and D. T. K. Kwok), City University of Hong Kong Strategic Research Grant 7001981 [HK\$ 180,000], 2006 2007
- ♦ Development of Novel Materials for Orthopedics (*P. K. Chu, K. D. K. Luk, K. M. C. Cheung, W. W. Lu, S. C. Tjong, C. Y. Chung, D. Chan, and Q. P. Sun*), Hong Kong Research Grants Council Central Allocation Grant CityU 1/04C [HK\$ 4,140,000 plus HK\$ 400,000 matching fund from City University of Hong Kong], 2005 − 2008
- ♦ Surface Modification of Nitinol by Plasma Immersion Ion Implantation (K. M. C. Cheung, P. K. Chu, K. D. K. Luk, and W. W. Lu), Scoliosis Research Society (USA) Standard Research Grant [US\$ 100,000], 2005 2007
- ♦ Improvement of Quality and Efficiency of the Ion Cutting Process Using Dual Plasma Implantation and Plasma Hydrogenation (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7001820 [HK\$ 180,000], 2005 − 2006
- ♦ Biocompatibility of Plasma Treated and Doped Diamond-Like Diamond (P. K. Chu), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1120/04E [HK\$ 645,147 plus HK\$ 50,000 matching fund from City University of Hong Kong], 2004 – 2007
- ♦ Plasma Surface Modification of Blood Contacting Materials and Investigation of Mechanism of Blood Compatibility (P. K. Chu and N. Huang), National Science Foundation China (NSFC) / Hong Kong Research Grants Council (RGC) Joint Scheme N_CityU 101/03 [HK\$ 687,400 and RMB\$ 260,000 plus HK\$ 50,000 matching fund from City University of Hong Kong], 2004 2007
- ♦ Mechanical Characterization of Plasma Immersion Ion Implanted Nickel Titanium Alloy (K. Cheung, W. Lu, C. Y. Chung, P. Chu, and K. Luk), Synthes USA [US\$ 118,540], 2005 2006
- ♦ Plasma Immersion Ion Implantation of Insulating Materials (*P. K. Chu and D. R. McKenzie*), Research Grants Council Competitive Earmarked Research Grant CityU 1137/03E [HK\$ 481,913 plus HK\$ 48,191 matching funding from the City University of Hong Kong], 2003 − 2005
- ♦ Theoretical Simulation of Plasma Implantation into Insulators (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7001642 [HK\$ 180,000], 2004 2005
- ♦ Development of Nanocomposite Coatings for Manufacturing Industries (Y. W. Mai, E. Cheung, Y. G. Shen, K. Y. Li, H. Chen, and P. K. Chu), Innovation and Technology Commission-Innovation and Technology Fund, Hong Kong Industry Department 9440021 [HK\$ 8,300,000], 2002 2005
- ♦ Improved Bioactivity of Titanium by Plasma Immersion Ion Implantation (*P. K. Chu and M. Maitz*), City University of Hong Kong Strategic Research Grant 7001447 [HK\$200,000], 2003 2004
- ♦ Development of Cathodic Arc Plasma Immersion Ion Implantation (PIII) for Biomaterials Application (M. M. M. Bilek, D. R. McKenzie, and P. K. Chu), Australian Research Council (ARC) Discovery Project DP0210853 [Aus\$ 477,000], 2002 − 2004
- ♦ Plasma Engineering of Silicon-Based Blue Light Emitting Materials (P K. Chu), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1052/02E [HK\$ 433,404], 2002 – 2004
- ♦ Steady-State Direct-Current Plasma Immersion Ion Implantation (*P. K. Chu*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1013/01E [HK\$ 981,812], 2001 2004
- ♦ Na Plasma Immersion Ion Implantation into Titanium for Improved Bioactivity (*P. K. Chu and W. Möller*), Germany / Hong Kong Research Grants Council Joint Research Scheme RGC G_HK001/02 [HK\$29,400], 2003 − 2004
- ♦ Biocompatibility Studies of Diamond-Like Carbon (DLC) Films Fabricated by Plasma Immersion Ion Implantation / Deposition (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7001389 [HK\$ 231,713], 2002 − 2003

- ♦ Investigation of Plasma Transport in Cathodic Arc Plasma Source (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7001177 [HK\$ 250,000], 2001 2002
- ♦ Plasma Immersion Treatment of Biomedical Materials and Components (*P. K. Chu*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1032/00E [HK\$ 687,817 plus HK\$ 68,781.70 matching fund from City University of Hong Kong], 2000 2002
- ♦ Simulation of Plasma Ion Implantation Process into Gear Structures and Irregular-Shaped Commercial Components Using Three-Dimensional Models (*P. K. Chu and T. K. Kwok*), City University of Hong Kong Strategic Research Grant 7001028, [HK\$ 301,302], 2000 − 2001
- ♦ Investigation of Uniformity, Contamination, and In-Situ Dose Monitoring in Plasma Immersion Ion Implantation (PIII) for Microelectronics Applications (*P. K. Chu*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1003/99E, [HK\$ 747,000 plus HK\$ 74,700 matching fund from City University of Hong Kong], 1999-2001
- ♦ Biocompatible Surface Layers by Enhanced X-Ray Contrast (P. K. Chu and W. Möller), Germany / Hong Kong Research Grants Council Joint Research Scheme 9050150 [HK\$ 26,000 plus separate fund from German DAAD], 2000 2001
- ♦ Deposition of Nb/NbN Layers on Titanium by Plasma Immersion Ion Implantation (*P. K. Chu and W. Möller*), Germany / Hong Kong Research Grants Council Joint Research Scheme 9050084 [HK\$ 42,000 plus matching fund from German DAAD], 1997 − 2000
- ♦ Ion-Cut by Plasma Immersion Ion Implantation (*P. K. Chu*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1015/98E, [HK\$ 1,384,000 plus HK\$ 138,400 matching fund from City University of Hong Kong], 1998 − 2000
- ♦ **Plasma Immersion Ion Implanter for Biomedical Materials** (*P. K. Chu*), Southwest Jiaotong University [HK\$ 2,883,860], 1999 2000
- ♦ Design and Construction of Commercial Plasma Immersion Ion Implanters for Surface Treatment and Modification of Industrial Materials and Components (*P. K. Chu*), Hong Kong Industry Department [HK\$ 1,000,000], 1998 − 2000
- ♦ The Role of Surface Hydrogen in Plasma Immersion Ion Implantation (*P. K. Chu and T. K. Kwok*), City University of Hong Kong Strategic Research Grant 7000964, [HK\$ 235,000], 1999
- ♦ Enhancement of Surface Properties of Advanced Components Using Plasma Immersion Ion Implantation (*P. K. Chu*), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1003/97E, [HK\$ 1,399,120], 1997 − 1999
- ♦ **High Power Solid-State Modulator for Plasma Immersion Ion Implantation** (*P. K. Chu*), City University of Hong Kong [HK\$ 1,500,000], Hong Kong University of Science & Technology [HK\$ 100,000], Hong Kong University [HK\$ 100,000], 1998
- ♦ Fabrication of Thin SIMOX (Separation by Implantation of Oxygen) by PIII (Plasma Immersion Ion Implantation) (P. K. Chu and Y. C. Cheng), Hong Kong Research Grants Council Competitive Earmarked Research Grant CityU 1034/96E [HK\$ 1,208,000], 1996 1998 (awarded "Excellent" rating)
- ♦ SOI Synthesis by Plasma Immersion Ion Implantation (*P. K. Chu*), Industrial Contract from Silicon Genesis Corporation, Campbell, California, USA [US\$ 126,300], 1997 1998
- ♦ Treatment of Interior Surfaces of Cylindrical Components (*P. K. Chu and T. K. Kwok*), City University of Hong Kong Strategic Research Grant 7000730 [HK\$ 376,000], 1997 − 1998 (awarded "Excellent" rating)
- ♦ Plasma Immersion Ion Implantation Facility (*P. K. Chu*), City University of Hong Kong [HK\$ 800,000], Materials Research Center, City University of Hong Kong [HK\$ 400,000], *1997*
- Surface Modification and Strengthening of Aerospace and Other Critical Components (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7000621 [HK\$ 260,000], 1996 1997
- Establishment of a Plasma Immersion Ion Implantation Facility for Surface Treatment of Advanced Materials (*P. K. Chu, Y. C. Cheng, and P. K. Ko*), Hong Kong Research Grants Council Central Allocation Grant CityU 1/94C [HK\$ 1,600,000], Hong Kong University of Science & Technology Matching Grant [HK\$ 250,000], City University of Hong Kong Supplementation Grant [HK\$ 1,270,000], Materials Research Center (City University of Hong Kong) Grant [HK \$200,000] 1995 1997

- ♦ Fabrication and Characterization of Hetero-Epitaxial CoSi₂ Thin Films on Si by Co/Ti/Si Ternary Solid State Interaction (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7000530 [HK\$ 345,420], 1995 − 1997
- Formation of SIMON (Separation by Implantation of Oxygen and Nitrogen) by Plasma Immersion Ion Implantation (*P. K. Chu and Y. C. Cheng*), City University of Hong Kong Strategic Research Grant 7000472 [HK\$329,460], 1995 1996
- ♦ **Plasma Immersion Ion Implantation of Semiconductor Materials** (*P. K. Chu and P. K. Ko*), City University of Hong Kong Grant 9050037 [HK\$ 330,000], 1994 1996
- ♦ Design and Construction of a Class-1000 Cleanroom for Plasma Immersion Ion Implantation (*P. K. Chu*), City University of Hong Kong Central Funding [HK\$ 4,100,000], 1995 1996
- ♦ A Novel Chamber Design for Plasma Immersion Ion Implantation (*Y. C. Cheng and P. K. Chu*), City University of Hong Kong Strategic Research Grant 7000338 [HK\$ 346,816], 1994 1996
- Design and Fabrication of High Speed SIMOX SOI/CMOS Gate Arrays (P. K. Chu and Y. C. Cheng), City University of Hong Kong Strategic Research Grant 7000340 [HK\$ 346,819], 1994 1995
- ♦ Fabrication and Characterization of SIMOX Wafers by Plasma Immersion Ion Implantation (P. K. Chu), City Polytechnic of Hong Kong Strategic Research Grant 7000264 [HK\$ 329,000], 1993 1995
- ♦ Micro-Volume SIMS of Biological Materials (*P. K. Chu, et al.*), National Institute of Health (USA) SBIR (Small Business Innovative Research) Program Phases 1 & 2 [US\$ 500,000], 1989 1992
- ♦ Characterization of Advanced III-V Materials (*P. K. Chu, et al*), Office of Naval Research (USA) Collaborative Research Grant [US\$ 500,000], 1983 1986
- ♦ Co-investigator of a number of SBIR (Small Business Innovative Research) and non-SBIR programs from 1983 to 1992, including a Strategic Defense Initiative (SDI) or "Star War" research program on **Determination of Ultra Low Impurities in III-V Semiconductor Materials** and US Air Force research program on **Imaging of Particles**

Conference Organization:

General chair, co-chairman, member of advisory / international / organizing / program committee, or session chair of many international conferences on plasma science and engineering, microelectronics, materials science and engineering, including:

- International Conference on Plasma-Based Ion Implantation and Deposition (PBII&D) Dresden, Germany 1996; Detroit, USA 1998; Kyoto, Japan 1999; Grenoble, France 2001; San Antonio, USA 2003; Chengdu, China 2005; Leipzig, Germany 2007; Sao Paulo, Brazil 2009; Harbin, China 2011; Poitiers, France 2013; Buenos Aires, Argentina 2015; Shanghai, China 2017; Shenzhen, China 2019
- International Ion Implantation Technology Conference (IIT) Taipei, Taiwan 2004; Marseille, France 2006; Monterey, USA 2008; Kyoto, Japan 2010; Valladolid, Spain 2012; Tainan, Taiwan 2016; Würzburg, Germany 2018; San Diego, USA 2022
- IEEE International Conference on Plasma Science (ICOPS) Boston, USA 1996; San Diego, USA 1997; Raleigh, USA 1998; Monterey, USA 1999; Jeju, Korea 2003; Washington DC, USA 2014; Singapore 2020
- Materials Research Society (MRS) Spring Meeting, San Francisco, USA 2007; Spring Meeting, San Francisco, USA 2009; Fall Meeting, Boston, USA 2021
- Materials Research Society Japan (MRS-J) Annual Meeting Yokohama, Japan 2010; Yokohama, Japan 2011, Yokohama, Japan 2012, Yokohama, Japan 2013; Yokohama, Japan 2015; Yokohama, Japan 2016; Kokura, Japan 2018; Yokohama, Japan 2019; Yokohama, Japan 2021; Yokohama, Japan 2022
- European Materials Research Society (E-MRS) Spring Meeting Nice, France 2019
- IUMRS (International Union of Materials Research Societies) International Conference in Asia (ICA) Nagoya, Japan 2008; Fukuoka, Japan 2014
- IUMRS (International Union of Materials Research Societies) International Conference on Advanced Materials (15th IUMRS-ICAM) Kyoto, Japan 2017
- IUMRS (International Union of Materials Research Societies) International Conference on Electronic Materials (IUMRS-ICEM 2012) Yokohama, Japan 2012

- International Conference on Surface Modification of Materials by Ion Beams (SMMIB) Mumbai, India 2007; Harbin, China 2011; Kusadasi, Turkey 2013; Chiang Mai, Thailand 2015; Lisbon, Portugal 2017; Tomsk, Russia 2019
- International Conference on Solid-State and Integrated Circuit Technology (ICSICT) Beijing, China 1986, 1992, 1995, 1998; Shanghai, China 2001; Beijing, China 2004; Shanghai, China 2006; Beijing, China 2008; Shanghai, China 2010; Guilin, China 2014
- International Conference on Materials and Process Characterization (ICMPC) Shanghai, China 1988, 1991; Kunming, China 1994; Shanghai, China 1997
- 7th Secondary Ion Mass Spectrometry Conference (SIMS-VII) Monterey, USA 1989
- International Conference on Plasma Science & Technology (ICPST) Chengdu, China 1994
- International Conference on Surface Engineering (ICSE) Shanghai, China 1997; Shenzhen, China 2004
- International Conference on Physical and Numerical Simulation of Materials and Hot Working (ICPNS) Beijing, China 1999
- International Workshop on Junction Technology (IWJT) Tokyo, Japan 2001; Shanghai, China 2004; Tokyo, Japan 2005; Shanghai, China 2006; Kyoto, Japan 2007; Shanghai, China 2008; Tokyo, Japan 2009; Shanghai, China 2010; Kyoto, Japan 2013; Kyoto, Japan 2015; Kyoto, Japan 2017
- 14th Chinese National and Taiwan/ Hong Kong Semiconductor Physics Conference Hong Kong 2003
- WINP Hong Kong 2003
- 2nd International Workshop on Particle Beams & Plasma Interaction on Materials and 2nd Asia Symposium on Ion & Plasma Surface Finishing (PIM & ASIP) Thailand 2004
- Asian-European International Conference on Plasma Surface Engineering (AEPSE) Qingdao, China 2005; Nagasaki, Japan 2007; Dalian, China 2011
- International Conference on Surfaces, Coatings and Nanostructured Materials (ICSCnanoSMat) -Aveiro, Portugal 2005; Algarve, Portugal 2007
- International Conference on Ion Beam Modification of Materials (IBMM) Taormina, Italy 2006; Dresden, Germany 2008
- Siam Physics Congress (SPC) Nakorn Pathom, Thailand 2007
- International Symposium on Surface and Interface of Biomaterials (SIB) Chengdu, China 2007
- Joint International Conference of 3rd International Conference on Surface and Interface Science and Engineering (SISE 2007) and Symposium on Surface Engineering for Industrial Applications (SEIA 2007) - Singapore 2007
- IEEE International Conference on Electron Devices and Solid-State Circuits (EDSSC 2007) Tainan, Taiwan 2007
- IEEE International Nanoelectronics Conference (INEC) Shanghai, China 2008; Hong Kong 2010; Singapore 2013
- Biomedical Engineering International Conference (BME) Hong Kong 2008; Hong Kong 2010
- Biomaterials Asia Hong Kong 2009
- 51st APS Annual Meeting of the Division of Plasma Physics Atlanta, USA 2009
- 11th Asia Pacific Physics Conference Shanghai, China 2010
- 3rd International Conference on Microelectronics and Plasma Technology (ICMAP) Dalian, China 2011
- International Conference on Shape Memory and Superelastic Technologies (SMST) 2011 SMA Workshop Hong Kong 2011
- International Conference on Technological Advances of Thin Films and Surface Coatings (ThinFilms2012) Singapore 2012
- 4th Asian Biomaterials Congress (ABCM4) Hong Kong 2012
- International Conference on Bioinspired and Biobased Chemistry & Materials Nice, France 2012
- International Conference on Nanotechnology: Fundamentals and Applications (ICNFA) Montreal, Canada 2012; Toronto, Canada 2013; Prague, Czech Republic 2014; Barcelona, Spain, 2015
- 8th Cross-Strait Film Science and Technology Seminar Ningbo, China 2012
- Materials Science & Technology Conference & Exhibition (MS&T) Pittsburgh, USA 2012
- 4th Asian Biomaterials Congress Hong Kong 2013

- International Conference on Design, Analysis, Manufacturing, and Simulation (ICDAMS 2013) Chennai, India 2013
- International Conference on Advances in Manufacturing and Materials Engineering (AMME-2014) -Karnataka, India 2014
- International Conference on Engineering Applications of Nanotechnology (ICEA) Visakhapatnam, India 2014
- International Congress on Materials and Metallurgy (CMAM) Hong Kong 2015
- AVS Shanghai Thin Film (TF) Conference Shanghai 2015
- European Congress on Corrosion and Surface Treatment in Industry Tatra, Slovakia 2015
- Asia-Pacific Conference on Plasma Physics (AAPPS-DPP) Chengdu, China 2017; Kanazawa, Japan 2018
- International Conference on Applied Surface Science (ICASS) Dalian, China 2017
- 2018 Asia-Pacific Conference on Plasma and Terahertz Science (APCOPTS) Xi'an, China 2018
- 2nd International Conference on Advanced Functional Materials & Interfaces (AFMI) Wuhan, China 2018

University and Amateur Sports:





- Honorary manager of CityU varsity swimming team (1999 2021)
- Holder of 3 CityU staff swimming records in butterfly (50 m), breast stroke (100 m), and mixed relay (4 x 50 m) and previous holder of 1 CityU staff record in breast stroke (50 m)
- Previous co-holder of two Hong Kong masters swimming records
- Honorary manager of CityU varsity badminton team (1998 – 2021)
- Men's singles, men's doubles, mixed doubles, and teams champions in CityU staff-students badminton tournaments

Websites:

- CityU Plasma Laboratory: https://www.cityu.edu.hk/phy/appkchu/plasma/default.htm
- Paul Chu's Home Page: https://www.cityu.edu.hk/phy/appkchu/plasma/Paul%20Chu/paul chu.htm
- Google Scholar: http://scholar.google.com/citations?hl=en&user=m5i0T5gAAAAJ&view_op=list_works&pagesize=100
- Web of Science: https://www.webofscience.com/wos/author/record/764152
- Scopus: https://www.scopus.com/authid/detail.uri?authorId=56426644700