

BRIEF CURRICULUM VITAE

Professor Paul K Chu

Department of Physics

Department of Materials Science and Engineering

Department of Biomedical Engineering

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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 / Department of Materials Science and Engineering, **City University of Hong Kong (CityU)**, Hong Kong (since 2017)

Present Professional Positions:

- ◆ Board Member and Co-Founder, **China Morefound Technology Ltd.**, Shenzhen, China (since 2017)
- ◆ Board Member and Founder, **Plasma Technology Limited**, Hong Kong (since 1998)
- ◆ Member, **Membership Committee (Convener of Process Engineering Panel)**, **Hong Kong Academy of Engineering Sciences** (since 2016)
- ◆ Chairman, **International Plasma-Based Ion Implantation and Deposition Committee** (since 2005)
- ◆ Member, **IEEE Nuclear and Plasma Sciences Society Fellow Evaluation Committee** (since 2009)
- ◆ Member, **Ion Implantation Technology International Committee** (since 2004)
- ◆ Honorary Director, **International Research and Development Center for Surface Engineering of Materials**, **Xian Jiaotong University**, China (since 2009)
- ◆ Supervising Senior Editor, **IEEE Transactions on Plasma Science** (since 2013)
- ◆ Associate Editor, **Materials Science and Engineering: Reports** (since 2005)
- ◆ Editorial Board Member, **International Journal of Molecular Engineering** (since 2006)
- ◆ Editorial Board Member, **Surface and Interface Analysis** (since 2006)
- ◆ Editorial Board Member, **Current Materials Science** (changed from **Recent Patents on Materials Science** in 2019) (since 2008)
- ◆ Editorial Board Member, **Cancer Nanotechnology** (since 2009)
- ◆ Editorial Board Member, **Biomaterials** (since 2010)
- ◆ Editorial Board Member, **Surface and Coatings Technology** (since 2011)
- ◆ Editorial Board Member, **Versita (Physics)** (since 2012)
- ◆ Editorial Board Member, **Advanced Materials Interfaces** (since 2013)
- ◆ Editorial Board Member, **Materials and Surfaces for Biocompatible Systems** (since 2015)

Awards and Honors:

- **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, since 2016)
- **Leader of Shenzhen Peacock Team** 中國深圳孔雀團隊帶頭人 (2016)
- **Thousand Talents of China** 中國國家千人 (2016)
- **Leading Talents of Guangdong Province of China** 中國廣東省領軍人才 (2016)
- **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 Natural Science Award (First Class)** 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 plasma - materials 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 Böhmische Physical Society** for “*contributions to the fields of ion beam analysis and plasma source ion implantation*” (1997)
- **Second Best Paper Award** (IEEE International SOI Conference, Tucson, Arizona, USA, 1995)
- **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, and Publications:

- 14 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)
- 12 Chinese patents granted (ZL-02240946.7, ZL02275571.3, ZL00106152.6, ZL02141205.7, ZL200410108295.1, ZL200410018294.7, CN101003868A, ZL 201080008828.1, CN103361595B, CN103834984A, CN103816574A, and CN207283895U)
- 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
- More than 40 book chapters, 1,800 journal papers, and 1,000 conference publications including more than 150 plenary / keynote / invited papers and presentations

Advisory / Visiting Professorships (Present and Past):

- ◆ **Fudan University**, Shanghai, China (since 1994)
- ◆ **Peking University**, Beijing, China (since 1997)
- ◆ **Southwest Jiaotong University**, Chengdu, China (since 1998)
- ◆ **Southwestern Institute of Physics**, China National Nuclear Corporation, Chengdu, China (since 1998)
- ◆ **Shanghai Jiaotong University**, Shanghai, China (since 2003)
- ◆ **Harbin Institute of Technology**, Harbin, China (since 2005)
- ◆ **Nanjing University**, Nanjing, China (since 2005)
- ◆ **Jiamusi University**, Jiamusi, China (since 2005)
- ◆ **Shanghai Institute of Ceramics**, Chinese Academy of Sciences, Shanghai, China (since 2006)
- ◆ **Shanghai Institute of Microsystem and Information Technology**, Chinese Academy of Sciences, Shanghai, China (since 2006)
- ◆ **Xi'an Jiaotong University**, Xi'an, China (since 2008)
- ◆ **Sichuan University**, Chengdu, China (since 2008)
- ◆ **Wuhan University of Science and Technology**, Wuhan, China (since 2008)
- ◆ **Shenzhen Institutes of Advanced Technology**, Chinese Academy of Sciences, Shenzhen, China (since 2014)
- ◆ **Hohai University**, Nanjing, China (since 2018)
- ◆ **Taiyuan University of Technology**, Taiyuan, China (since 2019)
- ◆ **Jinan University**, Guangzhou, China (since 2019)

Past Professional / Academic Positions:

- ◇ 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** (2011 – 2014)
- ◇ 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)
- ◇ 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)
- ◇ Research Professor, **Department of Computer Science & Institute of Microelectronics, Peking University**, Beijing, China (1993 – 1996)
- ◇ Director of Research, **Materials Research Center, City University of Hong Kong**, Hong Kong (1993 – 1996)
- ◇ Consulting Professor, **Department of Materials Science, Fudan University**, Shanghai, China (1993)
- ◇ 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 (◆ on-going, ◇ completed):

- ◆ **Ti-Based Biomaterials with Capacitance-Based Antibacterial Properties** (*P. K. Chu*), City University of Hong Kong Strategic Research Grant 7005264 [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
- ◆ **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
- ◆ **Fabrication of Durable Surface Coatings** (*P. K. Chu*), City University of Hong Kong Internal Fund for ITF Projects 9678148 [HK\$ 555,515], 2018 – 2022
- ◆ **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
- ◆ **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 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 [Chinese RMB 9,000,000], 2016 – 2020
- ◆ **Surface Modification and Fabrication of Advanced Materials** (*P. K. Chu*), City University of Hong Kong Donation Research Grant 9220061 [HK\$ 7,290,927], 2012 – 2022
- ◇ **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細胞分析的臨床意義 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 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 other 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 the determination of ultra low impurities in III-V semiconductor materials and a 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 2020
- 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
- Materials Research Society (MRS) - Spring Meeting, San Francisco, USA 2007; Spring Meeting, San Francisco, USA 2009
- 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
- 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 – present)
- Holder of 3 CityU staff swimming records in butterfly, breast stroke, and mixed relay and previous holder of 1 CityU staff breast stroke record
- Previous co-holder of two Hong Kong masters swimming records
- Honorary manager of CityU varsity badminton team (1998 – present)
- 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
- Thomson Reuters ResearchID: <http://www.researcherid.com/rid/B-5923-2013>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=56426644700>