

G/F, CYM Chemistry Building P2 & P3, CYM Physics Building 28 July 2019 29-31 July 2019



Jointly Organized by:

National Natural Science Foundation of China (NSFC), Beijing-Hong Kong Academic Exchange Centre (BHKAEC), State Key Laboratory of Synthetic Chemistry, Department of Chemistry, The University of Hong Kong

28–31 July, 2019

Scientific Program

<u>Sunday, 28 July 2019</u>

Venue: Ground Floor Lobby, Chong Yuet Ming Chemistry Building, Department of Chemistry

- 14:00 18:00 Registration
- 18:00 20:00 Welcoming Reception

<u>Monday, 29 July 2019</u>

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building (Live) Theatre P3, Chong Yuet Ming Physics Building (Video)

9:00 – 9:30 Opening Ceremony

Session 1 (Synthetic Chemistry)

Chair: Prof. Chi-Ming Che (The University of Hong Kong)

- 9:30 10:15 Catalytic Alkane Functionalizations and Polyethylene Degradation Prof. Zheng Huang (Shanghai Institute of Organic Chemistry)
- 10:15 10:45 Coffee Break

Session 2A (Functional Materials)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building

Chair: Dr. Yufeng Wang (The University of Hong Kong)

- 10:45 11:15Nonporous Adaptive Crystals (NACs) for Separation and AdsorptionProf. Feihe Huang (Zhejiang University)
- 11:15 11:45Optical Manipulation for Functional NanorobotsDr. Jinyao Tang (The University of Hong Kong)
- 11:45 12:15 Engineering of Carbon and Silk Materials toward Flexible and Wearable Electronics Dr. Yingying Zhang (Tsinghua University)

Session 2B (Physical Chemistry and Computational Chemistry) Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building Chair: Prof. David Lee Phillips (The University of Hong Kong)

10:45 - 11:15	Machine Learning for Resolving Global Potential Energy Surface and Predicting Catalysis
	Prof. Zhi-Pan Liu (Fudan University)
11:15 - 11:45	Computational-Aided Design of New Energy Conversion Materials
	Prof. Jinlan Wang (Southeast University)
11:45 – 12:15	Multi-Dimensional Characterizations of Small Molecule – DNA Interactions and Protein Folding by Single-Molecule Manipulation and Spectroscopy
	Dr. Jinqing Huang (The Hong Kong University of Science and Technology)

28-31 July, 2019

12:15 – 14:00 Lunch Break

Session 3A (Functional Materials) Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building

Chair: Dr. Jinyao Tang (The University of Hong Kong)

14:00 - 14:30	De Novo Design and Facile Synthesis of Covalent Organic Frameworks: A Two-in-One Strategy
	Prof. Long Chen (Tianjin University)
14:30 - 15:00	Valleytronics in 2D Semiconductors
	Prof. Wang Yao (The University of Hong Kong)
15:00 - 15:30	From Curved Polycyclic Aromatics to Electronic Materials
	Prof. Qian Miao (The Chinese University of Hong Kong)

Session 3B (Chemical Biology)

Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building

Chair: Dr. Xiang David Li (The University of Hong Kong)

14:00 - 14:30	Chemical-Assisted Sequencing of Epigenetic Nucleic Acid Modifications
	Prof. Chengqi Yi (Peking University)
14:30 - 15:00	Targeting the Roots of Hepatocellular Carcinoma by Exploiting Stemness as a Cancer Cell Vulnerability
	Dr. Stephanie Kwai-Yee Ma (The University of Hong Kong)
15:00 - 15:30	Engineering DNA Nanostructures and Nanodevices for Drug Delivery System
	Prof. Baoquan Ding (National Center for NanoScience and Technology)
15:30 - 16:00	Coffee Break

Session 4A (Synthetic Chemistry)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building

Chair: Prof. Pauline Chiu (The University of Hong Kong)

16:00 - 16:30	Water-Splitting Catalysts in Natural and Artificial Photosynthesis
	Prof. Chunxi Zhang (Institute of Chemistry, CAS)
16:30 - 17:00	Controlled Functionalization of Carborane
	Prof. Zuowei Xie (The Chinese University of Hong Kong)
17:00 - 17:30	Cooperative Copper(I)-Catalyzed Radical-Involved Asymmetric Reactions
	Prof. Xin-Yuan Liu (Southern University of Science and Technology)
17:30 - 18:00	Remote Asymmetric Control in Organocatalysis
	Prof. Jianwei Sun (The Hong Kong University of Science and Technology)

28-31 July, 2019

Session 4B (Chemical Biology)

Venue: Lecture	Theatre P3, Chong Yuet Ming Physics Building					
Chair: Dr. Xiao	oyu Li (The University of Hong Kong)					
16:00 - 16:30	Uncovering Metallo-proteomics in Microbes: Novel Way to Overcome Antimicrobial Resistance?					
	Prof. Hongzhe Sun (The University of Hong Kong)					
16:30 - 17:00	When Chemistry Meets Epigenetics: Chemical Approaches to Decipher Histone Modifications					
	Dr. Xiang David Li (The University of Hong Kong)					
17:00 - 17:30	Towards Synthetic Biologics					
	Prof. Xuechen Li (The University of Hong Kong)					
17:30 - 18:00	Enzyme-Catalysed [6+4] Cycloadditions in the Biosynthesis of Natural Products					
	Prof. Huiming Ge (Nanjing University)					

Close of the First Day

<u>Tuesday, 30 July 2019</u>

Session 5 (Chemical Biology)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building (Live) Theatre P3, Chong Yuet Ming Physics Building (Video)

Chair: Dr. Xiaoyu Li (The University of Hong Kong)

9:30 – 10:15 Novel Fluorescent Probes for Detection and Molecular Imaging of Reactive Oxygen Species Prof. Dan Yang (The University of Hong Kong)

10:15 – 10:45 Coffee Break

Session 6A (Synthetic Chemistry)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building

Chair: Prof. Pauline Chiu (The University of Hong Kong)

10:45 - 11:15	Chemical Reactions under High Pressure
	Prof. Kuo Li (Center for High Pressure Science & Technology Advance Research)
11:15 - 11:45	Axial Chirality Chemistry: Asymmetric Catalysis and Applications
	Prof. Bin Tan (Southern University of Science and Technology)
11:45 - 12:15	Catalytic CO2 Reduction Based on Earth-Abundant Metal Complexes
	Prof. Tai-Chu Lau (City University of Hong Kong)

28-31 July, 2019

Session 6B (Functional Materials)

Venue: Lecture	Theatre P3, Chong Yuet Ming Physics Building
Chair: Prof. Da	n Li (Jinan University)
10:45 - 11:15	Synthesis and Characterizations of Graphdiyne and its Derivatives
	Prof. Yongjun Li (Institute of Chemistry, CAS)
11:15 - 11:45	Active Patchy Colloids with Shape-Tunable Dynamics
	Dr. Yufeng Wang (The University of Hong Kong)
11:45 - 12:15	Fluorooxoborates: Novel Candidates for Deep-UV Nonlinear Optical Materials
	Prof. Shilei Pan (Xinjiang Technical Institute of Physics & Chemistry, CAS)
12:15 - 14:00	Lunch Break
14:00 - 15:30	Poster Session

15:30 – 16:00 Coffee Break

Session 7 (Functional Materials)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building (Live) Theatre P3, Chong Yuet Ming Physics Building (Video)

Chair: Prof. Dan Li (Jinan University)

16:00 - 17:00	Meeting with NSFC Representatives									
17:00 - 17:45			Discrete and Functio	0	Motifs	to	Supramolecular	Assembly,		
	Prof. Vivian Wing-Wah Yam (The University of Hong Kong)									

Close of the Second Day

Wednesday, 31 July 2019

Session 8A (Synthetic Chemistry)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building

Chair: Dr. Edmund Chun-Ming Tse (The University of Hong Kong)

 9:30 – 10:00 Artificial Photosynthesis for Chemical Transformation Prof. Li-Zhu Wu (Technical Institute of Physics and Chemistry, CAS)
 10:00 – 10:30 Zwitterion-Catalyzed Halogenation Reactions Prof. Ying-Yeung Yeung (The Chinese University of Hong Kong)

28-31 July, 2019

Session 8B (Physical Chemistry and Computational Chemistry)

Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building

Chair:	Prof.	Jinqing	Huang	(The]	Hong	Kong	University	of Sci	ience and	Technology)
---------------	-------	---------	-------	--------	------	------	------------	--------	-----------	-------------

9:30 - 10:00	Multiscale Simulation of Graphene Growth on Metal Surfaces
	Prof. Zhenyu Li (University of Science and Technology of China)
10:00 - 10:30	Ultrafast Time-Resolved Spectroscopic Studies of the Photophysics and Photochemistry of New Materials for Applications in Biology, Chemistry and Medicine
	Prof. David Lee Phillips (The University of Hong Kong)

10:30 – 11:00 Coffee Break

Session 9A (Functional Materials)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building

Chair: Dr. Jinyao Tang (The University of Hong Kong)

11:00 - 11:30	Two-Dimensional Covalent Organic Frameworks with Hierarchical Porosities
	Prof. Xin Zhao (Shanghai Institute of Organic Chemistry, CAS)
11:30 - 12:00	Studies on Complex Supramolecular Assembly Behaviours of Functional Pi-conjugated Molecules
	Prof. Dahui Zhao (Peking University)
12:00 - 12:30	Photo-activated Phosphorescence of Organometallic Complexes
	Dr. Wei Lu (Southern University of Science and Technology)

Session 9B (Physical Chemistry and Computational Chemistry) Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building Chair: Prof. David Lee Phillips (The University of Hong Kong)

- 11:00 11:30 Coherent Real-space Charge Transport in Organic Solar Cells Prof. Guanhua Chen (The University of Hong Kong)
 11:30 – 12:00 Constructing Markov State Models to Elucidate the Functional Conformational Changes of Complex Biomolecules Prof. Xuhui Huang (The Hong Kong University of Science and Technology)
 12:00 – 12:30 Computational Exploration of Chemical Reactions and Molecular Interactions: From Organic Molecules to Metal-Organic Frameworks Dr. Hajime Hirao (City University of Hong Kong)
- 12:30 14:00 Lunch Break

28-31 July, 2019

Session 10A (Physical Chemistry and Computational Chemistry)
Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building
Chair: Prof. Xuhui Huang (The Hong Kong University of Science and Technology)
14:00 – 14:30 Trajectory-Based Approaches for Quantum Statistics and Dynamics of Nonadiabatic System
Prof. Jian Liu (Peking University)
14:30 – 15:00 First-principles Studies of Dissolved Carbon in Supercritical Aqueous Fluids: Reactions and Raman Spectroscopy
Prof. Ding Pan (The Hong Kong University of Science and Technology)
15:00 – 15:30 Recent Development of State-to-State Quantum Reactive Scattering Theory
Prof. Zhigang Sun (Dalian Institute of Chemical Physics, CAS)

Session 10B (Chemical Biology)

Venue: Lecture Theatre P3, Chong Yuet Ming Physics Building

Chair: Prof. Hongzhe Sun (The University of Hong Kong)

14:00 - 14:30	Drugging the Undruggable: Biomimetic Chemical Intervention Based on PTMs
	Prof. Cheng Luo (Shanghai Institute of Materia Medica, CAS)
14:30 - 15:00	DNA-Encoded Library and its Applications
	Dr. Xiaoyu Li (The University of Hong Kong)
15:00 - 15:30	Pharmacological Validation of Untargeted Kinases with Small Molecules
	Prof. Xianming Deng (Xiamen University)
15:30 - 16:00	Developing Fluorescent Probes and Peptide-based Materials for Biological Applications
	Dr. Hongyan Sun (City University of Hong Kong)

16:00 – 16:30 Coffee Break

Session 11 (Physical Chemistry and Computational Chemistry)

Venue: Lecture Theatre P2, Chong Yuet Ming Physics Building (Live)

Theatre P3, Chong Yuet Ming Physics Building (Video)

Chair: Prof. Xuhui Huang (The Hong Kong University of Science and Technology)

- 16:30 17:15 Mediating Surface Reactions with Molecular Assembly Strategy Prof. Kai Wu (Peking University)
- 17:30 17:45 Closing Remarks: Prof. Chi-Ming Che (HKU)

Close of the Symposium

HKU Campus Map



Contact Us: Department of Chemistry General Office, G01, Chong Yuet Ming Chemistry Building, The University of Hong Kong, Pokfulam Road, HK

Tel: (852) 2859 7919, (852) 2241 5131 Email: <u>chemmail@hku.hk</u> Emergency No.: 999