

Day 4 - 14th December 2016, Wednesday

Time	Program					
	Auditorium 2					
	Session Chair: Prof Lei Jiang					
09:00-10:30	Precise Chemical, Physical, and Electronic Nanoscale Contacts Plenary Session By: Prof Paul WEISS Why two-dimensional materials? Plenary Session By: Prof Young Hee LEE					
	Auditorium 2					
10:30-11:00	Best Poster Awards Ceremony					
11:00-11:30	Coffee Break					
	Symposium 1 Lecture Theatre 50	Symposium 2 Lecture Theatre 51	Symposium 3 Global Learning Room	Symposium 4 Lecture Theatre 52	Symposium 5 Seminar Room 1	Symposium 6 Seminar Room 2
	Session Chair:	Session Chair: Prof Bin Liu	Session Chair: Prof Haizheng Zhong	Session Chair: Prof Hui Wu & Prof Liang Li		
11:30-11:50		Effective Charge Carrier Utilization in Photocatalytic Conversions (I) Prof Jinlong Gong (400)	Chiral Recognition and Transfer in Molecules on Metal Surfaces (I) Prof Li Wang (0263)	Advanced Sodium-Ion Batteries for Energy Storage (I) Prof Yong-Sheng Hu (134)		
11:50-12:10		Discover new optical absorption model of Pt nanoparticles for solar energy conversion (I) Prof Yi-Jun Xu (0246)	Design and fabrication of portable Raman spectroscopy system and study of methods for baseline correction of Raman spectra (I) Prof Wei Zhang (511)	One-Dimensional Nanomaterials for Energy Storage (I) Prof Liqiang Mai (0003)		
12:10-12:20		Surface Passivation of III-Nitride Nanowires for Stable and Enhanced Photoelectrochemical Water-Splitting (C) Dr Purushothaman Varadhan (292)	In Situ Raman Monitoring of Laser Induced Catalytic Reactions (C) Prof Ping Xu (412)	Nanoconfined Carbon-Coated Na ₃ V ₂ (PO ₄) ₃ Particles in Mesoporous Carbon Enabling Ultra Long Cycle Life for Sodium-Ion Batteries (C) Prof Yu Jiang (011)		
12:20-12:30				A Flexible Free-standing Porous Carbon Nanofibers/Selenium Hybride for High Performance Li-Se and Na-Se Batteries (C) Prof Linchao Zeng (008)		
12:30-13:30	Lunch					

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		Symposium 1	Symposium 2	Symposium 3	Symposium 4	Symposium 5	Symposium 6
		Lecture Theatre 50	Lecture Theatre 51	Global Learning Room	Lecture Theatre 52	Seminar Room 1	Seminar Room 2
		Session Chair: Prof Fabien Sully		Session Chair: Prof Li Wang	Session Chair: Prof Shulei Chou & Prof Yi-chun Lu		
13:30-13:50		Surface reaction network of CO oxidation catalyzed by metal-oxide composite catalysts (I) Prof Weixin Huang (047)		Organometal Halide Perovskite Quantum Dots: Synthesis, Optical Properties, and Display Applications (I) Prof Haizheng Zhong (0168)	Capacitance of Carbon Based Electrical Double-Layer Capacitors (I) Prof Hengxing Ji (125)		
13:50-14:00		Mechanically-assisted Electrochemical Production of Graphene Oxide (I) Dr Yulin Zhong (0185)		Polarization-controlled holographic storage in photochromic Ag/TiO ₂ nanocomposite films (I) Prof Xintong Zhang (0278)	Graphene-Based Composites with Controlled Structures for High-Performance Energy Storage Materials (I) Prof Jiaxin Geng (138)		
14:00-14:10							
14:10-14:20		Hydrophobicity of Amino Acid Side Chains in Protein Environment: Insights from Contact Angle on Artificial Planar Peptide Polymer (I) Dr Hui Li (0083)		Influence of surface plasmon resonance on the emission intermittency of photoluminescence from gold nano-spherulites (I) Dr Yen-Hsun Su (0196)	Nanostructured electrode materials for energy storage (I) Prof Qinyu Yan (0064)		
14:20-14:30							
14:30-14:40		CO oxidation at the interface between FeO and noble metals: interface and size effects (I) Prof Fan Yang (059)		Piezochromic Materials at High Pressure (I) Prof Bo Zou (0052)	Ceramic and Composite Membranes enabling Aqueous Lithium-Air Batteries (C) Prof Stefan Adams (465)		
14:40-14:50					Hierarchical α -MnO ₂ Tube-on-Tube Arrays with Superior, Structure-dependent Pseudocapacitor Performance Synthesized via A Selective-Dissolution and Coherent Growth Mechanism (C) Dr Bao Zhi Yu (284)		
14:50-15:00					A new sulfur host based on metallic and polar titanium monoxide@carbon hollow spheres for advanced lithium-sulfur batteries (C) Dr Zhen Li (328)		
15:00-15:10		Concurrent removal of selenium and arsenic from water using POSS-polyamide thin-film nanocomposite nanofiltration membranes (C) Ms Yingran He (285)			Molecularly Designed Nitrogen and Phosphorus Co-doped Hierarchically Porous Carbon Capable of In Situ Self-activation for Electrochemical Energy Systems (C) Dr Wei Ai (315)		
15:10-15:20		A Novel Organophosphorus Hybrid with Excellent Thermal Stability: Core-Shell Structure, Hybridization Mechanism, and Application in Flame Retarding Semi-Aromatic Polyamide (C) A/Prof Li Chen (369)			Fast Ion Conductors for Sodium Ion Cathodes - a Bond Valence-based Study (C) Dr Lee Loong Wong (450)		
15:20-15:30		Construction of Cu ₃ (PO ₄) ₂ Nanoflowers on a Protein Film: Controllable Wetting Behavior and Self-Cleaning Property (C) A/Prof Fei Song (353)		Surface Modification of Quantum Dots towards (I) Prof Shu Xu (0130)			
15:30-15:40							
15:30-16:00	Coffee Break						

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	Symposium 1 Lecture Theatre 50	Symposium 2 Lecture Theatre 51	Symposium 3 Global Learning Room	Symposium 4 Lecture Theatre 52	Symposium 5 Seminar Room 1	Symposium 6 Seminar Room 2
				Session Chair: Prof Qingyu Yan		
16:00- 16:10						
16:10- 16:20				Energy Storage Materials, Characterization and Understanding (I) Prof Seok Woo Lee (0090)		
16:20- 16:30						
16:30- 16:40				Nano-Hydroxyapatite for Polysulfides- Trapping in Li-S Batteries (I) Prof Yaqin Huang (150)		
16:40- 16:50						
16:50- 17:00						
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10:30-11:00	Why two-dimensional materials? Plenary Session By: Prof Young Hee LEE					
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	Best Poster Awards Ceremony					
11:00-11:30	Coffee Break					
11:30-11:50	Symposium 7 Seminar Room 3	Symposium 8 Auditorium 2	Symposium 9 Seminar Room 4	Symposium 10 Lecture Theatre 53	Symposium 11 Seminar Room 5	Symposium 12 Seminar Room 12 (Town Plaza)
	Session Chair: Prof Huachun Zeng	Session Chair: Dr Yasumitsu Miyata	Session Chair: Dr Haiming Zhu	Session Chair: Prof Yiwang Chen	Session Chair: Prof Lin Dong	Session Chair: Prof Dan Kai
	Platinum-based selective electrocatalysts for the membraneless direct methanol fuel cells (I) Prof Jun Yang (212)	Black Phosphorus Transistor with Enhanced Carrier Transport Properties (I) A/Prof Kah-Wee Ang (0176)	Hydration effect in MAPbI ₃ (I) Prof Maxim S. Pshenichnikov (602)	Origin of the orientation dependence of ionization energy and electron affinity in molecular thin films: Impact of molecular quadrupole moment (I) Prof Hiroyuki Yoshida (183)	Fine-tuning of Metal-Carbon Complex Catalysts toward the Maximum Mass-specific yet Stable Reactivity (I) Mr Xuezhi Duan (475)	Therapeutic biomaterials: Preclinical biocompatibility and functional assessments (I) A/Prof Navin Kumar Verma (466)
11:50-12:10	Synthesis of raspberry-like metallo-dielectric building units (I) Prof Mona Treguler-Delapierre (0296)	Creating a stable oxide at the surface of black phosphorus (I) Dr Anton Tadich (323)	Effect of Thermal and Structural Disorder on the Electronic Structure of Hybrid Perovskite Semiconductor CH ₃ NH ₃ PbI ₃ (I) Prof Dinesh Kabra (0372)	Controlling the long-range order of optoelectronic polymers by nanoembossing (I) Prof Zhijun Hu (0178)	Highly Active and Reusable Mesoporous Lewis Acids Catalysts for Water-medium Organic Synthesis (I) Prof Fang Zhang (473)	Bioactive glass for regeneration of bone and dental tissues (I) Dr Siti Noor Fazilah Mohd Noor (503)
12:10-12:20	Synthesis of Thiolate-Protected Au Nanoparticles Revisited: U-Shape Trend between the Size of Nanoparticles and Thiol-to-Au Ratio (C) Mr Tiangkai Chen (221)	Exciton driven optical frequency conversion in atomically thin black phosphorus (I) Mr Jose Viana-Gomez (358)	Interfacial electronic structures of methylammonium-octylammonium lead bromide layered perovskite (C) Dr Qiang Xu (0459)	Nanoparticles Incorporated inside Single-Crystals: Enhanced Fluorescent Properties (C) Dr Yujing Liu (472)	UV-Vis-IR driven catalytic purification of VOCs on manganese oxide and metal doped manganese oxide (I) Prof Yuanzhi Li (525)	Injectable Hydrogels for Sustainable Anti-Cancer Drug Release in a Mouse Model of Hepatocellular Carcinoma (I) Dr Yunlong Wu (0080)
12:20-12:30	Controllable Circular Dichroism of a Metasurface by Coupling Localized and Propagating Modes (C) Mr Zeng Wang (0305)			Poly(3,4-ethylenedioxythiophene): methylnaphthalene sulfonate formaldehyde condensate : a case study on the effect of work function and structural homogeneity on hole injection/extraction property (C) Prof Yuan Li (569)		
12:30-13:30	Lunch					

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	Symposium 7 Seminar Room 3	Symposium 8 Auditorium 2	Symposium 9 Seminar Room 4	Symposium 10 Lecture Theatre 53	Symposium 11 Seminar Room 5	Symposium 12 Seminar Room 12 (Town Plaza)
	Session Chair: Prof Jianping Xie	Session Chair: Dr Goki Eda	Session Chair: Prof Xinfeng Liu	Session Chair: Prof Jie Zhang	Session Chair: Prof Fang Zhang	Session Chair: Prof Zhibao Li & Prof Jianzhong Du
13:30-13:50	Highly Efficient Resonance Energy Transfer System for Singlet Oxygen-Generation from Bovine Serum Albumin-Au25 Nanoclusters Conjugated with Methylene Blue (I) Prof Hideya Kawasaki (0092)	Noble Metal Dichalcogenide and III-VI 2D crystals (I) Prof Thomas Heine (532)	Lead Halide Perovskite Nanowires for Lasing Emission Applications (I) Dr Haiming Zhu (082)	Interfacial Dipole Effect for Organic Photovoltaics (I) Prof Yiwang Chen (0377)	The formation of heterointerface defects in Au/Cu films (I) A/Prof Wenqing Yao (522)	Photo-Activated Phosphorescence of Gold(I) Arylethynyl Complexes in Aerated Solutions and Gels (I) Prof Wei Lu (0164)
13:50-14:00	Gain media in plasmonic nanostructures: from superradiance to lasing (I) Prof Renaud Vallee (262)	Topological Materials (I) Prof Hsin Lin (534)		Small-molecule electron donors for organic photovoltaics: synthesis and modulating the film morphology of the electron donor/acceptor blend (I) Prof Xu-Hui Zhu (209)	Photocatalytic Performance of Organic Anions and Graphene Modified Layered Double Hydroxides (C) Prof Xiuxiu Ruan (578)	Evaluation of Antioxidant Activity of Different Pharmaceutical Drugs Available in Market (C) Ms Syeda Kiran Shahzadi (362)
14:00-14:10					Nanomaterial-Based Photocatalysis Technique for Air Pollution Control (C) Prof Yu Huang (559)	On the mechanism of action of Aurein 1.2, a small membrane disrupting antimicrobial peptide (C) Mr Mahdi Shahmiri (310)
14:10-14:20	Interface Engineering of CVD-Graphene for Enhanced Photovoltaic Performance (I) Prof Yu Wang (515)	Interlayer Interactions in 2D Materials: Impact on Vibrational and Electronic Properties (I) A/Prof Su Ying Quek (166)	Hybrid Perovskites Nanostructures and Nanophotonic Devices (C) Mr Son Tung Ha (0385)	Relating Chemical Structure, Morphology to Performance in Organic Photovoltaics (I) Prof Feng Liu (414)	TOF-SIMS analysis of pharmacological active components in Cordyceps sinensis (I) Prof Zhanping Li (599)	Polymer Vesicles for Biomedical Applications (I) Prof Jianzhong Du (252)
14:20-14:30			Efficient Carrier Funneling Induced Lower-threshold Amplified Spontaneous Emission in Multi-dimensional Perovskite Nanoplatelets (C) Dr Mingjie Li (455)			
14:30-14:40	Aggregation Induced Emission in Highly Luminescent Gold Nanoclusters (C) Dr Nirmal Goswami (234)	Quantitative Measurements of Graphene Physical Properties by Scanning Probe Microscopy (I) Dr Wanxin Sun (182)	Dominant factors affecting amplified spontaneous emission in two-dimensional lead halide perovskite thin films (C) Mr Wee Kiang Chong (147)	Reducing Energy Loss in Fullerene and Non-Fullerene based Organic Solar Cells (I) Prof Weiwei Li (071)		Stereocomplex Stimulated High Performance PLA and Biomedical Applications (I) Dr Zhibao Li (440)
14:40-14:50	Origins of the Electron and Hole Diffusion Length Imbalance in FAPbI ₃ Perovskite (C) Mr Teck Wee Goh (151)					
14:50-15:00		Room temperature ferroelectricity in atomically thin CuInP ₂ S ₆ (C) Dr Fucui Liu (0320)	Room temperature spin-dependent strong light-matter interaction in layered lead halide perovskites (C) Mr David Giovanni (124)	Effect of crystallinity on electrical structure of subphthalocyanine acceptor based solar cells (C) Dr Takeaki Sakurai (192)		Development of Sustainable Lignin-based Materials for Health Care Applications (I) Dr Dan Kai (390)
15:00-15:10	Synthesis and Piezoelectric Properties of high quality 2D layered organic-inorganic perovskite single crystals (C) Mr Huy Tiep Nguyen (314)			Ambient Stable Organic Radical Dithienothiophene Dimers for Transistors (C) Prof Yonggang Zhen (422)		
15:10-15:20		Nanotents and 2 nm Void-formation in 2D Materials (C) Dr Huanyao Cun (548)		Study of energy level alignment in organic semiconductors: Quasi-Fermi level pinning controls the charge injection barrier (C) Dr Jinpeng Yang (0115)		Liquid-Controlled Reconfigurable Tuning of Whispering Gallery Mode Microlasers for Chemical Sensing (C) Mr Shancheng Yang (309)
15:20-15:30		Preparation of transition metal dichalcogenides nanodots with two-dimensional structure (C) Mr Zhuangchai Lai (395)				Nano-Domains in Unilamellar Supported Biomimetic Membranes: Detecting Phase Equilibria via Nano-Viscosity Measurements (C) Mr Imad Younus Hasan (304)
15:30-15:40						
15:30-16:00	Coffee Break					

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						Session Chair: <i>Prof Dan Kai</i>
16:00-16:10						Curcumin an important therapeutic agent: insight from chemistry and insilico studies (C) Prof Muhammad Abdul Qadir (344)
16:10-16:20						Comparative Density Functional Theory and Density Functional Tight Binding Study of Arginine and Arginine-Rich Cell Penetrating Peptide TAT Adsorption on Anatase TiO ₂ : Qualitative Difference between Small and Big Molecule Adsorption (C) Dr Johann Lüder (0032)
16:20-16:30						Scaffolds from block polyurethanes based on poly(3-caprolactone) (PCL) and poly(ethylene glycol) (PEG) for peripheral nerve regeneration (C) Ms Yuqing Niu (0329)
16:30-16:40						Monodisperse Ultrasmall MnFe ₂ O ₄ nanoparticles Synthesized via Dynamic Simultaneous Thermal Decomposition for high resolution Blood Pool and Liver-Specific Magnetic Resonance Imaging (C) Mr Huan Zhang (435)
16:40-16:50						
16:50-17:00						
17:00-17:10						
17:10-17:20						