

Day 2 - 12<sup>th</sup> December 2016, Monday

Time	Program					
	<b>Auditorium 2</b>					
	<i>Session Chair: Prof Wei Chen/Prof Rong Xu</i>					
09:00-10:30	<b>Novel Concepts in C1 Chemistry</b> Plenary Session By: Prof Xinhe BAO					
	<b>Carbon nitrides as active semiconductors and supports for Artificial Photosynthesis and (Photo)Catalysis</b> Plenary Session By: Dr Markus ANTONIETTI					
10:30-11:00	<b>Coffee Break</b>					
11:00-11:45	Session 1 <b>Auditorium 2</b> <i>Session Chair: Prof Young Hee Lee</i>	Session 2 <b>Lecture Theatre 50</b> <i>Session Chair: Prof Weiping Ding</i>	Session 3 <b>Lecture Theatre 51</b> <i>Session Chair: Prof Rong Xu</i>	Session 4 <b>Lecture Theatre 52</b> <i>Session Chair: Prof Shilun Qiu/Prof Hongjin Fan</i>	Session 5 <b>Lecture Theatre 53</b> <i>Session Chair: Prof Yunqi Liu</i>	
	<b>Keynote Session</b> Crystal Phase-Controlled Synthesis of Novel Noble Metal Nanomaterials <b>Prof Hua Zhang</b>	<b>Keynote Session</b> Mediating Surface Molecular Assemblies and Reactions <b>Prof Kai Wu</b>	<b>Keynote Session</b> Hydrogen Production from Water Photocatalyzed by Platinum-based Hybrid Molecular Systems <b>Prof Ken Sakai</b>	<b>Keynote Session</b> Functional Energy Materials: From 1D and 2D Polymers to 3D Carbon Nanomaterials <b>Dr Liming Dai</b>	<b>Keynote Session</b> Crystal of Organic Semiconductor <b>Prof Wenping Hu</b>	
11:45-12:30	<b>Keynote Session</b> Two-dimensional materials: Theory, synthesis, characterization and applications <b>Prof Mauricio Terrones</b>	<b>Keynote Session</b> Performance Enhancement of Photocatalysis via Surface Structures <b>Prof Yongfa ZHU</b>	<b>Keynote Session</b> Hybrid Molecular, Materials, and Biological Catalysts to Solar-to-Chemical Conversion <b>Prof Chris Chang</b>	<b>Keynote Session</b> From Carbon-Based Nanotubes to Nanocages for Advanced Energy Conversion and Storage <b>Prof Zheng Hu</b>	<b>Keynote Session</b> Semiconducting Polymers and Composite for Printed Devices <b>Prof Antonio Facchetti</b>	
12:30-13:30	<b>Lunch</b>					
13:30-13:50	Symposium 1 <b>Lecture Theatre 50</b> <i>Session Chair: Prof Jiong Lu</i>	Symposium 2 <b>Lecture Theatre 51</b> <i>Session Chair: Prof Rong Xu</i>	Symposium 3 <b>Global Learning Room</b> <i>Session Chair: Prof Lei Liu</i>	Symposium 4 <b>Lecture Theatre 52</b> <i>Session Chair: Prof Hongjin Fan &amp; Prof Zhichuan Xu</i>	Symposium 5 <b>Seminar Room 1</b> <i>Session Chair: Prof Yanli Zhao</i>	Symposium 6 <b>Seminar Room 2</b> <i>Session Chair: Dr Mark Jhon</i>
	Fabrication of Highly Ordered Surface Covalent Organic Frameworks via On-surface Dynamics Covalent Chemistry <b>(I) Prof Dong Wang (068)</b>	Chalcogenide Tetrahedral Cluster Based Framework Materials for Photocatalytic Application <b>(I) Prof Pingyun Feng (436)</b>	Exploring organic semiconductors at the two-dimensional limit <b>(I) Prof Xinran Wang (069)</b>	Multi-Shelled Hollow Microspheres: From Artistic Structure to Practice Application <b>(I) Prof Dan Wang (190)</b>	Porous Molecular Crystals <b>(I) Prof Ognjen Miljanic (172)</b>	Superstructures from colloidal nanocrystals <b>(I) Prof Alexander Eychmuller (0272)</b>
13:50-14:10	Atomically precise graphene nanoribbons synthesized by on-surface chemistry <b>(I) Dr Dimas G. de Oteyza (041)</b>	Highly Concentrated CO Evolution for Photocatalytic Conversion of CO <sub>2</sub> by H <sub>2</sub> O as an Electron Donor <b>(I) Prof Kentaro Teramura (301)</b>	Spectroscopic investigation of defects in TMDs and defect engineering <b>(I) Prof Zhenhua Ni (0058)</b>	Multi-angular Rod-Shape Na <sub>0.44</sub> MnO <sub>2</sub> as Cathode Materials with High-Rate and Long-Life for Sodium-Ion Batteries <b>(I) Prof Shulei Chou (490)</b>	Conjugated Porous Organic Polymers for Gas Capture and Separation <b>(I) Prof Bao-Hang Han (0565)</b>	Observation of an Excitonic Quantum Coherence in CdSe Nanocrystals <b>(I) A/Prof Zhi-Heng Loh (226)</b>
14:10-14:30	Experimental Realization of monolayer Boron Sheets and Nanoribbons <b>(I) Prof Lan Chen (0049)</b>	Plasmon-Driven High-Performance Conversion of CO <sub>2</sub> to Solar Carbon Fuels <b>(I) Prof Jinlin Long (331)</b>	Electronic Transport and Device Applications of 2D Materials <b>(I) Prof Feng Miao (040)</b>	Advanced Na-ion batteries Based on Double Carbon Coating NASICON-Structure Materials <b>(I) Prof Yu Yan (012)</b>	MOF-derived Functional Porous Materials for Electrochemical Energy Storage and Conversion <b>(I) Prof Ruqiang Zou (0239)</b>	Photoinduced Charge Transfer Processes between Colloidal Quantum Dots and Organic Free Radicals <b>(I) Prof Remi Beaulac (211)</b>
14:30-14:40	Single-molecule reactions – Understanding reaction mechanisms and controlling electronic structure <b>(I) Dr Alexander Riss (563)</b>	Water Splitting by Graphitic Carbon Nitride Photocatalysts <b>(I) Prof Xinchun Wang (401)</b>	Quantum state control in photoluminescence from single quantum dots <b>(I) Prof Xiulai Xu (510)</b>	Mass Production of 2D Metal and Oxides for Energy Storage and Conversion <b>(I) Prof Hui Wu (0066)</b>	Noble Metal and Iron Oxide Hybrid Composite Nanomaterials <b>(I) Prof Ken Leung (0110)</b>	Ultrafast 2D Electronic Spectroscopy and Transient Absorption Spectroscopy of CdSe Quantum Dots <b>(I) Prof Howe-Siang Tan (268)</b>
14:40-14:50						
14:50-15:00	Hierarchical engineering of two-dimensional self-assembled porous organic nanoarchitectures on metal surfaces <b>(I) Prof Fabien Silly (203)</b>	Oxygen Electrode Reactions on Pt(111) Surface Investigated by Combining DFT Calculations and Monte Carlo Simulations <b>(I) Prof Shengli Chen (421)</b>	Graphene optoelectronic devices integrated with nanophotonic structures <b>(I) Prof Xuetao Gan (053)</b>	Defective carbons for electrochemical reactions: A defect catalysis mechanism <b>(I) Prof Xiaodong Yao (521)</b>	Function-led Design of Hierarchical Materials <b>(I) Prof Yan Xu (0361)</b>	Chemistry of Nanocrystal Surfaces <b>(I) Prof Zeger Hens (389)</b>
15:00-15:10						
15:10-15:20	Local Electronic Structure of Atomically Sharp Graphene Nanoribbon Heterojunction <b>(I) Mr Hsin-Zon Tsai (0181)</b>	Photocatalytic hydrogen evolution efficiency of Si up to 18% by employing the cascading energy band structure and novel electrode design <b>(C) Ms Hui-Chun Fu (417)</b>	Highly efficient blue light emission from a-SiNxO film via localized surface plasmon of laser annealed Ag nanosphere arrays <b>(C) Prof Zhongyuan Ma (0281)</b>			Highly-Luminescent Colloidal Nanocrystals of Cesium Lead Trihalide Perovskites (CsPbX <sub>3</sub> , X=Cl, Br, I) <b>(I) A/Prof Maksym Kovalenko (0383)</b>
15:20-15:30		Engineering the cubic CeO <sub>2</sub> /g-C <sub>3</sub> N <sub>4</sub> interfacial interaction to enhance photocatalytic H <sub>2</sub> production <b>(C) Dr Weixin Zou (104)</b>	Modulable Luminescence of Europium (III) and Ytterbium (III) Ions with the DTE Photochromic Unit <b>(C) A/Prof Lucie Norel (367)</b>			
15:30-15:40	Surface Regulations on the Physicochemical Properties of Porous Nanorods of Ceria for Advanced Catalysis <b>(C) Prof Yongquan Qu (0033)</b>					

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**SICC9**

A stylized molecular structure graphic consisting of several blue spheres of varying sizes connected by thin lines, positioned to the right of the 'SICC9' text.

Day 2 - 12<sup>th</sup> December 2016, Monday

15:30-  
16:00

Coffee Break

Day 2 - 12<sup>th</sup> December 2016, Monday

	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
16:00-16:20	<h1>Poster Session at Level 2</h1>					<i>Session Chair:</i> A/Prof Zhi-Heng Loh
						Sequential joining of colloidal semiconductor nanocrystals via inorganic intermediates <b>(I) Dr Mark Hyunpong Jhon (231)</b>
16:20-16:40						Cancer Microenvironment Sensitive Activatable Quantum Dot Probe in the Second Near Infrared Window <b>(I) Prof Sungjee Kim (0133)</b>
16:40-16:50						Compact, Polyvalent Glycan-Quantum Dots for Probing and Inhibiting Multivalent Viral Receptor-Carbohydrate Interactions <b>(I) Dr Dejian Zhou (0109)</b>
16:50-17:00						
17:00-17:10						2D Semiconductor Nanoplatelets for Fluorescence Bioimaging <b>(I) A/Prof Andrew Smith (0205)</b>
17:10-17:20						
17:20-17:30						2D Colloidal Semiconductors and Their Derived Hybrid Nanostructures: Synthesis, properties and Applications <b>(C) Dr Xue-Jun Wu (397)</b>
17:30-17:40						A General Solvent Selection Strategy for Solution Processed Quantum Dots Targeting High Performance Light-Emitting Diode <b>(C) Mr Yatao Zou (089)</b>
17:40-17:50						
17:50-18:00						
18:15	<i>Coach Departure</i>					
19:00-22:00	<i>The Line, Shangri-La Hotel</i>					
	<b>Banquet Dinner</b>					

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09:00-10:30		<b>Novel Concepts in C1 Chemistry</b> <b>Plenary Session By: Prof Xinhe BAO</b>					
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10:30-11:00		<b>Coffee Break</b>					
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12:30-13:30		<b>Lunch</b>					
		<b>Symposium 7</b>	<b>Symposium 8</b>	<b>Symposium 9</b>	<b>Symposium 10</b>	<b>Symposium 11</b>	<b>Symposium 12</b>
		<b>Seminar Room 3</b>	<b>Auditorium 2</b>	<b>Seminar Room 4</b>	<b>Lecture Theatre 53</b>	<b>Seminar Room 5</b>	<b>Seminar Room 12 (Town Plaza)</b>
13:30-13:50		<i>Session Chair: Prof Jianping Xie &amp; Prof Yuichi Negishi</i>	<i>Session Chair: Dr Goki Eda</i>	<i>Session Chair: Prof Tae-Woo Lee</i>	<i>Session Chair: Prof Xiaodong Chen &amp; Prof Huanli Dong</i>	<i>Session Chair: Prof Yongfa Zhu</i>	<i>Session Chair: Prof Jianyong Ouyang &amp; Prof Xian Jun Loh</i>
		Precise Synthesis, Functionalization and Application of Thiolate-Protected Gold Clusters (I) Prof Yuichi Negishi (287)	Low dimensional metal chalcogenide semiconductors: design, synthesis and applications (I) Prof Jun He (0295)	Room-temperature processed lead halide based perovskite solar cells with good productivity and stability (I) Prof Wallace Choy (0046)	The modification of the functionality of $\pi$ -molecules through the structural adjustment (I) Prof Zhen Li(0307)	Modification of g-C <sub>3</sub> N <sub>4</sub> Photocatalysts for Solar-to-Fuel Conversion (I) Prof Shaowen Cao (0283)	Sensors Based on Nanomaterials for Wearable and Smart Electronics in Healthcare (I) Prof Nae-Eung Lee (0254)
13:50-14:10		Atomically Precise Gold Nanoclusters (I) Prof Manzhou Zhu (266)	Two dimensional materials in energy storage applications (I) Dr Wesley Guangyuan Zheng (484)	High-Performance Perovskite Solar Cells through Composition Engineering (I) Prof Jianyong Ouyang (0028)	From Open-shell Singlet Diradicaloids to Polyradicaloids (I) Prof Jishan Wu (260)	Enhanced photocatalytic CO <sub>2</sub> reduction activity of TiO <sub>2</sub> using surface modification (I) Prof Jiaguo Yu (0300)	Nanomaterial based flexible/stretchable electronics fabrication process (I) Prof Seung Hwan Ko (277)
14:10-14:30		Gold Nanocrystals with Unusual Morphologies (I) Prof Yu Han (289)	Optoelectronics with two-dimensional atomic crystals (I) A/Prof Thomas Muller (368)	High-Performance Inverted Planar Heterojunction Perovskite Solar Cells Based on Lead Acetate Precursor with Efficiency Exceeding 18% (I) Dr Rui Zhu (067)	From Nanographene to Molecular Graphite – Development of Pyrene and Perylene-based Large $\pi$ -Conjugated Systems (I) Prof Naoki Aratani (193)	3D TEM Study on particle growth through oriented attachment (I) Dr Ming Lin (0340)	Application of Silkworm Silk in Flexible Electronics and Air Filtration, (I) Prof Yingying Zhang (373)
14:30-14:40		Templated-synthesis of gold nanocages of unusual morphologies (I) Prof Serge Ravaine (0255)	Growth and electronic properties of MoS <sub>2</sub> /WS <sub>2</sub> lateral heterostructures (I) Prof Yasumitsu Miyata (169)	Perovskite Solar Cells with High Efficiency and High Stability Prepared in Ambient Air Based on Surface-modified Perovskite Layer (I) Prof Baomin Xu (0434)	Molecular Wires and Switches with Organometallic Carbon-Rich Complexes (I) Prof Stéphane Rigaut (0070)	Determination of the Stacking Order of Graphene sheets in Multilayer Domains with Atomic Force Microscopy and Theoretical Analysis (I) Dr Zhi-Yong Yang (0426)	Biological Application of Semiconducting Polymer Nanoparticles in Imaging, Therapy and Optogenetics (I) Prof Kanyi Pu (456)
14:40-14:50							
14:50-15:00		Crystal Structure and Catalytic Performance of A Novel Cadmium Doped Gold Nanocluster (I) Prof Zhikun Wu (0250)	Triradiate nanoripple array formation in MoS <sub>2</sub> atomic layer by centrosymmetric bilayer epitaxy (I) Dr Yi Zheng (163)	Perovskite and Spiro-OMeTAD Single Crystals: Remarkably Enhanced Photovoltaic Merits Outperforming Polycrystalline Thin Films. (I) Prof Dong Shi (600)	Self-Assembled Monolayers of Photochromic Dihydroazulenes for Solid-State Switchable Junctions: Anchoring Group Matters (I) Prof Tao Li (152)	Carbon-Based Sorbents with Three-Dimensional Architectures for Water Remediation (C) Mr Bo Chen (375)	Natural Triterpenoids as Renewable Functional Nano-entities: Hierarchical Self-assembly Yielding Novel Materials Useful for Drug Entrapment, Metal-Nanoparticle Hybrids and Recyclable Catalyst (C) Prof Braja Gopal Bag (0249)
15:00-15:10							
15:10-15:20		Understanding Seed-Mediated Growth of Gold Nanoclusters: Hopping from One Stable Size to Another (C) Dr Qiaofeng Yao (229)	Emerging Frontiers in Two Dimensional Materials (C) Dr Sina Najmaei (299)	Lead-free Tin (IV)-based A <sub>3</sub> SnI <sub>6</sub> Perovskite Materials for Photovoltaic Application (C) Ms Yan Chen (0483)	Molecular Electronics based on Cruciform Oligo(phenylene ethynylene)s (I) Prof Zhongming Wei (0142)	Requirements of new surface analysis techniques for the research in the conversion of biomass starting materials (I) Prof Changwei Hu (0204)	Scalable Preparation of Three-dimensional Metallic Nanostructures for High Performance Electronic & Energy Storage Devices (I) Prof Cheng Yang (489)
15:20-15:30		Crystal Phase Engineering of Noble Metal Nanomaterials via Wet-chemical Synthesis (C) Ms Ye Chen (393)	Halide-Assisted Atmospheric Pressure Growth of Large WS <sub>2</sub> and WS <sub>2</sub> Monolayer Crystals (C) Dr Shisheng Li (430)				
15:30-15:40							

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	Symposium 7	Symposium 8	Symposium 9	Symposium 10	Symposium 11	Symposium 12
	Seminar Room 3	Auditorium 2	Seminar Room 4	Lecture Theatre 53	Seminar Room 5	Seminar Room 12 (Town Plaza)
16:00-16:20	<b>Poster Session at Level 2</b>	<i>Session Chair:</i> Dr Zheng Liu	<i>Session Chair:</i> Prof Rui Zhu	<i>Session Chair:</i> Prof Zhen Li	<b>Poster Session at Level 2</b>	<i>Session Chair:</i> Prof Yanqing Tian & Prof Chwee-Teck Lim
		Electric Double Layer Functionalization of Large-Area Transition Metal Dichalcogenide Monolayer Films (I) Prof Taishi Takenobu (208)	High-Efficiency Organometal Halide Perovskite Light-Emitting Diodes (I) Prof Tae-Woo Lee (218)	Soluble and Stable Acene Based Molecules and Materials (I) A/Prof Chunyan Chi (232)		2D-based Nanomaterials for Biomedical Applications (I) Prof Chwee-Teck Lim (0271)
16:20-16:40		Thermoelectrics and thermal transport in 2D semiconductors (I) Dr Kedar Hipplagaonkar (179)	Sensitive, room-temperature detection of gamma photons using solution-grown single crystals of hybrid lead halide perovskites (I) A/Prof Maksym Kovalenko (0382)	Some Twistacene-functionalized $\pi$ -Conjugated Molecules and their Potential Application (I) Dr Jinchong Xiao (072)		Noble metal nanoparticles-decorated molybdenum disulfide nanocomposites and their interesting application (I) Mr Lianhui Wang (0186)
16:40-16:50		Electron transport and device physics in monolayer transition-metal dichalcogenides (I) Prof Xinran Wang (535)	Lead-free Perovskite Light Emitting Diodes at Tunable Near-Infrared Emission (C) Ms May Ling Lai (0359)	Boost up electron mobility of solution-grown organic single crystals via reducing the amount of polar solvent residues (I) Prof Hanying Li (0074)		Programming Biomacromolecules as Functional Nanomaterials (I) Prof Yuzhou Wu (526)
16:50-17:00			Highly Luminescent and Stable Organic-Inorganic Perovskite Core-shell Nanoparticles for Light Emission Applications (C) Dr Sjoerd Antonius Veldhuis (360)			
17:00-17:10		Interface engineering of High-k Gate Dielectrics with 2D MoS <sub>2</sub> Materials (I) Dr Shijie Wang (0286)	Nitrogen Flow Facilitated Film Formation of All-Inorganic CsPbBr <sub>3</sub> Perovskite for High Brightness Light-Emitting Diodes (C) Mr Yan Fong Ng (493)	Molecular arrangement and their effect on the multilevel organic electronic memory performance (I) Prof Qingfeng Xu (0079)		Micelle-based nanomaterials for oxygen sensing (I) Prof Yanqing Tian (0055)
17:10-17:20			Molecular Engineered Organic-Inorganic Hybrid Perovskite with Multiple Quantum Well Structure for Multicolored Light-Emitting Diodes (C) Mr Hongwei Hu (441)			
17:20-17:30		Graphene-BP heterostructure for Multifunctional Photoresponsive Device (C) Dr Yanpeng Liu (0354)		Impact of electron-phonon coupling on charge transport in rubrene thin films on graphite (I) Prof Steffen Duhm (210)		Flexible Photo and Thermal sensors Based on Organic Semiconductors and Biomaterials (I) Prof Jia Huang (558)
17:30-17:40		Switching charge scattering mechanisms in WTe <sub>2</sub> thin-films by molybdenum doping (C) Mr Zhen Wang (429)				
17:40-17:50						
17:50-18:00			Modulating Charge Transport by Diarylethene Photoswitches (I) Prof Stefan Hecht (376)	Fabrication of CNT films and the rational CNT applications made from them (I) Dr Atsuko Sekiguchi (501)		
18:15	<b>Coach Departure</b>					
19:00-22:00	<b>The Line, Shangri-La Hotel Banquet Dinner</b>					