

10th Singapore International Chemistry Conference

16 - 19 December 2018

SICCC10

Day 2 - 17th December 2018, Monday

Time	Program					
08:30-09:15	Auditorium 2					
	Session Chair: Yu Zhao					
	Plenary Session Self-Assembly of Dinuclear Main Group Catalysts For Asymmetric Synthesis Barry Trost (01-0018)					
09:15-09:20	Movement					
09:20-09:55	Session 1	Session 2	Session 3	Session 4		
	Auditorium 2	Lecture Theatre 50	Lecture Theatre 51	Lecture Theatre 52		
	Session Chair: Shaozhong Ge	Session Chair: Zhaohui Wang	Session Chair: Jiong Lu	Session Chair: Shu Sin Chng		
	Keynote Session Developing Data-Driven Physical Organic Analysis Tools for Reaction Optimization and Interrogation Matthew Sigman (01-0571)	Keynote Session Controlled Synthesis of Molecular Nanocarbons Kenichiro Itami (04-0226)	Keynote Session Side-Chain Engineering of Photovoltaic Materials for High Performance Polymer Solar Cells Yongfang Li (06-0138)	Keynote Session Nanodiamond - An Emerging Material to Solve Biomedical Challenges Tanja Weil (10-0587)		
09:55-10:20	Tea Break					
	Symposium 1	Symposium 2	Symposium 3	Symposium 4	Symposium 5	Symposium 6
	Auditorium 2	Lecture Theatre 50	Lecture Theatre 51	Lecture Theatre 52	Lecture Theatre 53	Seminar Room 1
	Session Chair: Ming Joo Koh	Session Chair: Yanli Zhao	Session Chair: William Dichtel	Session Chair: Chunyan Chi	Session Chair: Jiong Lu	Session Chair: Zhichuan Xu
10:20-10:45	What's New With 1,3-Diacarbonyl Derivatives (I) Jean Rodriguez (0548)	Hydrazone-Based Functional Materials (I) Ivan Aprahamian (0264)	A metal-organic framework for photocatalytic and electrocatalytic reduction of CO ₂ (I) Xiao-Ming Chen (0373)	Novel Photochemical Methods for the Preparation of Nanographenes and Graphene Nanoribbons (I) Jean-Francois Morin (0321)	Wafer-scale growth and processing of 2D semiconducting TMDCs (I) Dongzhi Chi (0338)	Wearable Zinc Ion Battery (I) Chunyi Zhi (0007)
10:45-11:10	A Novel Class of PN3-Pincer Complexes: Cooperative Catalysis and Beyond (I) Kuo-Wei Huang (0275)	Tailoring Supramolecular Polymers for Energy and Environmental Applications (I) Ali Coskun (0257)	Polymer Chemistry in Metal Organic Frameworks (I) Takashi Uemura (0070)	Pyrrole-based Donor-Acceptor Oligomers: Tunable Chromophores, Charge Acceptors, and Chiral Aromatics (I) Marcin Stępień (0223)	Electronic Transport and Device Applications of 2D Materials (I) Feng Miao (0126)	Designing Hybrid Materials with Carbon Network to Improve the Electrochemical Performance of Li (Na)-ion Batteries (I) Yan Yu (0026)
11:10-11:35	Generation and reactivity of group 9 PCarbeneP pincer complexes (I) Rowan Young (0352)	Supramolecular Polymers with Well-Defined Topologies (I) Shiki Yagai (0112)	Task-Specific Design and Functionalization of Covalent Organic Frameworks for Water Purification (I) Shengqian Ma (0108)	Coplanarizing Functional pi-Systems through Covalent and Non-Covalent Bonds (I) Lei Fang (0058)	Controlled Growth and Versatile Applications of Metallic Transitional Metal Dichalcogenides (I) Yanfeng Zhang (0064)	High Performance All Solid-State Sulfur Battery with Compatible Interface (I) Chenglin Yan (0032)
11:35-12:00	Cobalt-Catalyzed Enantioselective Hydroboration/Cyclization of Enynes to Access Boryl-Functionalized Tertiary and Quaternary Stereogenic Centers (I) Shaozhong Ge (0538)	Novel Aromatics as Precursors to Porous Molecular Crystals (I) Ognjen Miljanic (0194)	Strategies for the Fabrication of MOF Films and Coatings for Pollution Control (I) Bo Wang (0130)	Chiral Diradicaloid Switches Operated by Light (I) Michal Juricek (0264)	A Library of Atomically-Thin Metal Chalcogenides (I) Zheng Liu (0276)	Development of Free-standing Bifunctional Air Electrodes for Rechargeable Zinc-Air Batteries (I) Linfei Lai (0158)
12:00-13:00	Lunch Lunch Talk by Dr Bo Liu (Nature Communications) Session Chair: Jiong Lu					

Day 2 - 17th December 2018, Monday

Day 2 - 17 th December 2018, Monday						
Auditorium 2						
<i>Session Chair: Lei Fang</i>						
13:00-13:45	Plenary Session Stable Porphyrin Radicals Atsuhiko Osuka (04-0049)					
13:45-13:50	Movement					
13:50-14:25	Session 1	Session 2	Session 3	Session 4		
	<i>Auditorium 2</i>	<i>Lecture Theatre 50</i>	<i>Lecture Theatre 51</i>	<i>Lecture Theatre 52</i>		
	<i>Session Chair: Jason Yeo</i>	<i>Session Chair: Wei Chen</i>	<i>Session Chair: Yong Cui</i>	<i>Session Chair: Ning Yan</i>		
	Keynote Session Catalysis for Conversion of Sustainable Energy Ib Chorkendorff (09-0077)	Keynote Session Two-dimensional semiconducting conjugated polymer single crystals with mobility approaching silicon crystals Wenping Hu (08-0074)	Keynote Session Mimicking Nature by Metal-Organic Frameworks: Perspective and Applications Natalia Shustova (03-0245)	Keynote Session Developing Ring Formation Reactions for Natural Product Synthesis Zhixiang Yu (01-0261)		
14:25-15:25	Tea Break And Poster Session					
	Symposium 1	Symposium 2	Symposium 3	Symposium 4	Symposium 5	Symposium 6
	<i>Auditorium 2</i>	<i>Seminar Room 1</i>	<i>Lecture Theatre 50</i>	<i>Lecture Theatre 52</i>	<i>Lecture Theatre 53</i>	<i>Lecture Theatre 51</i>
	<i>Session Chair: Yu Zhao</i>	<i>Session Chair: Ken Leung</i>	<i>Session Chair: Dan Zhao</i>	<i>Session Chair: Takayuki Tanaka</i>	<i>Session Chair: Yunhao Lu</i>	<i>Session Chair: Chunyi Zhi</i>
15:25-15:50	Two Gold Centers Versus One Gold Center in Dual Activation and Gold Photoredox Catalysis (I) Stephen Hashmi (0145)	Sustainable porous polymers for water treatment, gas capture and catalysis (I) Cafer Yavuz (0037)	Targeted Synthesis of Porous Aromatic Frameworks: From Structure Design to Advanced Application (I) Guangshan Zhu (0128)	Synthesis of Regular, Irregular, Warped, and Chiral Nanographenes via Alkyne Benzannulations (I) Wesley A. Chalifoux (0124)	Control of molecular spin state by non-covalent interaction with nitrogen doped graphene (I) Pavel Jelinek (0351)	Carbonaceous Materials for Electrocatalytic CO ₂ Reduction: from Single-Doping to Dual Doping (I) Yanguang Li (0469)
15:50-16:15	Visible-Light-Driven Fine Chemical Synthesis Using Inexpensive Natural Gases as Feedstocks in Batch and Flow Reactors (I) Jie Wu (0513)	Stimuli-responsive Functional Materials via Hierarchical Self-Assembly Involving Coordination Interactions (I) Haibo Yang (0493)	Metal-Organic Framework NanoComposite Materials (I) Fengwei Huo (0288)	Tri(9-anthryl)methyl Species: Synthesis and Properties of The Highly Congested Novel Hydrocarbons (I) Tomohiko Nishiuchi (0277)	Detecting valley splitting and valley-contrasting spin splitting at single-electron level around atomic defects of graphene (I) Lin He (0055)	Transition Metal-Based Electrocatalysts Modulated BY Cerium Element For Electrochemical Water Splitting (I) Johnny Chung Yin Ho (0201)
16:15-16:40	Catalytic Enantioselective Redox-Neutral Processes for Efficient Chemical Synthesis (I) Yu Zhao (0561)	Enhancing Photocatalytic Hydrogen Evolution by Intramolecular Energy Transfer in Naphthalimide Conjugated Porphyrin molecules (I) Xunjin Zhu (0403)	New Approaches of Metal-Organic Frameworks toward Hydrogen Isotope Separation (I) Hoi Ri Moon (0075)	Multi-dimensional Rylene Dyes for High Performance Solar Cells (I) Zhaohui Wang (0019)	First-principles study on the electronic, vibrational, and magnetic properties of bulk and few-layer FeP ₃ and NiP ₃ (I) Cheol-Hwan Park (0237)	Oxygen Electrocatalysis on Transition Metal Spinel Oxides (I) Zhichuan Xu (0344)
16:40-17:05	Rhodium-Catalyzed Stitching Reaction for Construction of New Extended π -Conjugation Systems (I) Ryo Shintani (0146)	In vivo self assembled biomaterials for bioimaging and therapeutics (I) Hao Wang (0492)	Polymeric Carbon Nitride Semiconductors for Artificial Photosynthesis (I) Xinchun Wang (0105)	Functional Polycyclic Aromatic Dicarboximides: Syntheses, Supramolecular Assembly and Applications in Organic Electronics (I) Dahui Zhao (0357)	Defects physics in emergent 2D material SnSe with binary black phosphorus lattice (I) Yi Zheng (0325)	Vertical Graphene-Based Arrays for Electrochemical Energy Storage and Conversion (I) Xinhui Xia (0122)
17:05-17:20	Geometrical Constraints in Design of Metal Ligands and Chiral Sensors (I) Hyunwoo Kim (0532)	Controllable Synthesis and Reactivity Studies of Polynuclear Metal Clusters (I) Liang Zhao (0463)	Investigating the Structure-Function Relationship in Covalent Organic Framework (CL) Xiao Feng (0069)	Toward Controllable Organic Radicals and Novel Functional π -Conjugated System (I) Zebing Zeng (0342)	Strain effect on the physicochemical properties of 2D Layered Materials (I) Xin Luo (0160)	3D porous nitrogen doped sponge nickel as an efficient bifunctional electrocatalyst for overall water splitting (CL) Kaili Zhang (0166)
17:20-17:30			Electrified organic-inorganic hybrid for energy storage (CL) Da-Wei Wang (0184)			Boosting the high-power performance of TiNb ₂ O ₇ arrays at medium-high temperature by synergistic vertical graphene skeleton and S-C shell (CL) Shenghui Shen (0163)
17:30-17:35	Engaging Radicals in Enantioselective Catalysis for Applications in Target Synthesis (CL) Ming Joo Koh (0362)	DNA/Protein Promoted Self-Assembly of Functional Nano-objects (CL) David Ng (0086)	Multiple-Component Covalent Organic Frameworks (CL) Ning Huang (0198)	Peri-tetracene Diradicaloid (CL) Yong Ni (0322)	Detecting Fermi velocities of different graphene sheets in misoriented graphene multilayer through Friedel oscillations (CL) Chao Yan (0161)	
17:35-17:45						
17:45-17:50	Homogeneous Polyisobutylene-Supported Bidentate Sulfur Ligand for Sequestration of Metals (CL) Hassan Said Bazzi (0016)			Pi-Extended Quinoidal Heteroarenes: The Ground States, Redox Properties and Their Applications (CL) Shaoqiang Dong (0289)	Atom-by-Atom Fabrication of Monolayer Molybdenum Membranes (CL) Xiaoxu Zhao (0313)	
17:50-18:00						
18:00-18:15					Spatial Confinement, Magnetic Localization and Their Interactions on Massless Dirac Fermions (CL) Zhongqiu Fu (0148)	
18:30	Coach Departure					
19:00-21:00	Speaker's Dinner					

10th Singapore International Chemistry Conference

16 - 19 December 2018

SICCC10

Day 2 - 17th December 2018, Monday - Con't

Time	Program				
	Auditorium 2				
	Session Chair: Yu Zhao				
08:30-09:15	Plenary Session Self-Assembly of Dinuclear Main Group Catalysts For Asymmetric Synthesis Barry Trost (01-0018)				
09:15-09:20	Movement				
09:20-09:55					
09:55-10:20	Tea Break				
	Symposium 7	Symposium 8	Symposium 9	Symposium 10	Symposium 6
	<i>Global Learning Room</i>	<i>Seminar Room 3</i>	<i>Seminar Room 4</i>	<i>Seminar Room 12</i>	<i>Seminar Room 2</i>
	<i>Session Chair: Junfa Zhu</i>	<i>Session Chair: Xiaodong Chen</i>	<i>Session Chair: Ning Yan</i>	<i>Session Chair: Seah Ling Kuan</i>	<i>Session Chair: Yanguang Li</i>
10:20-10:45	Probing the Structure of a Liquid Interface by Reactive-Atom Scattering (I) Timothy K Minton (0558)	Advances of Inverted Planar Heterojunction Perovskite Solar Cells (I) Rui Zhu (0448)	Catalytic Conversion and Utilization of CO ₂ as Carbon-oxygen Resources in the Chemical Synthesis (I) Fengyu Zhao (0382)	Efficient Photodynamic Therapy by Overcoming the Limits of Tumor Hypoxia (I) Jong Seung Kim (0365)	High Performance Hybrid Supercapacitors Based on Designed Ordered Mesostructures/Nanocrystals (I) Jinwoo Lee (0015)
10:45-11:10	Electrifying Model Catalysis: Atomically Defined Model Catalysts in Ultrahigh Vacuum and in Liquid Electrolytes (I) Jörg Libuda (0030)	Applications of Conjugated Polymers beyond Photovoltaics (I) Ko Ko Kyaw Aung (0149)	Catalysis with High-Density Molecular Monolayers Aiming for Sustainable Organic Synthesis (I) Kenji Hara (0464)	Changing the Molecular Zip Code: Addressing Antifungal Drugs to the Correct Organelle can Markedly Enhance their Efficacy (I) Micha Fridman (0035)	Structural Directed Growth of MnO ₂ and its Structure-Electrochemical Property Relationship (I) Lili Zhang (0131)
11:10-11:35	Towards Ligand-Directed Heterogeneous Catalysis: An Atomistic View (I) Swetlana Schauer mann (0197)	Low Dimensional Ruddlesden-Popper Perovskite Solar Cells (I) Yonghua Chen (0369)	Current status on the catalytic removal of nitrogen oxides from vehicle exhaust (I) Do Heui Kim (0125)	Allosteric over-activation of a periplasmic protease can kill bacteria (I) Seokhee Kim (0150)	Developing Flexible Miro-supercapacitors for Wearable Electronic Applications (I) Guozhen Shen (0111)
11:35-12:00	Revealing the interactions between 2D materials and metal oxides by constructing the contamination-free interfaces (I) Xiang Shao (0172)	Self-Assembled Organic/Polymeric Microlasers and Photoswitchable Microarrays (I) Yohei Yamamoto (0117)	The importance of hydrogen bonds in sugar chemistry (I) Lu Fang (0552)	RNA folding and therapeutic targeting (I) Gang Chen (0107)	Ultracapacitive Energy Storage Materials & Devices Under Extreme Conditions (I) Ho Seok Park (0247)
12:00-13:00	Lunch Lunch Talk by Dr Bo Liu (Nature Communications) <i>Session Chair: Jiong Lu</i>				

Day 2 - 17th December 2018, Monday - Con't

Auditorium 2					
Session Chair: Lei Fang					
13:00-13:45	Plenary Session Stable Porphyrin Radicals Atsuhiko Osuka (04-0049)				
Movement					
13:45-13:50					
13:50-14:25					
14:25-15:25	<h2>Tea Break And Poster Session</h2>				
	Symposium 7	Symposium 8	Symposium 9	Symposium 10	Symposium 2
	Global Learning Room	Seminar Room 3	Seminar Room 4	Seminar Room 12	Seminar Room 2
	Session Chair: Li Wang	CCS CHEMISTRY SPOTLIGHT Symposium Session Chair: Qichun Zhang	Session Chair: Yugen Zhang	Session Chair: Micha Fridman	Session Chair: Andrew Sue
15:25-15:50	Activity and Stability of Supported Metal Particles from First-Principles Theory (I) Wei-Xue Li (0068)	Distinguishing Structural Isomers in Single-Molecule Junctions (I) Hao-Li Zhang (0039)	Catalytic Performance of Pd/SrFe _{1-x} Ti _x O ₃ for Purifying Automotive Exhaust Gases (I) Saburo Hosokawa (0165)	Fusicoccin as a Tool for Controlling the 14-3-3-mediated Signaling Pathways (I) Junko Ohkanda (0175)	Exploiting Tunable Hydrochromism and the Structure-Property Relationships of Multifunctional Charge Transfer-Based Supramolecular Materials Assembled in Water (I) Mark Olson (0258)
15:50-16:15	An AIMD Study of High Temperature CH ₄ Dehydrogenation on Cu(111) (I) Zhenyu Li (0106)	Incorporating Heavy Inorganic Elements into π -Conjugated Polymers (I) Eric Rivard (0076)	Selective Synthesis of Branched Carbonyl Compounds as Biofuel Precursors via Aldol Condensation of Renewable Platform Molecules (I) Chawalit Ngamcharussri Vichai (0169)	Novel Tyrosinase Inhibitors as Skin Brightening and Anti-Hyperpigmentation Cosmeceuticals (I) Chee Wee Phoon (0053)	Calixarene-based Supramolecular Theranostics (I) Dongsheng Guo (0116)
16:15-16:40	Orienting ordered oxygen vacancy channels for functionality - Bottom Up and Top Down (I) Yingge Du (0046)	Mechano-adaptable Materials for Conformal Sensors (I) Xiaodong Chen (0540)	Identification of Active Sites for Water-Gas Shift Reaction on Gold-Ceria Catalyst (I) Chun-Jiang Jia (0476)	Tackling untargeted protein in Cancer (I) Cai-Guang Yang (0497)	Optimization of tumor treatment using stimuli-responsive nanotechnology (I) Zhong Luo (0546)
16:40-17:05	On-surface synthesis of poly(p-phenylene ethynylene) molecular wires via in situ formation of carbon-carbon triple bond (I) Pei-Nian Liu (0380)	High-Performance Thermoelectric Polymers (I) Jianyong Ouyang (0374)	Investigation of Active State of Pd Nanoparticles for CH ₄ Oxidation Using In Situ DXAFS Spectroscopy (I) Ohyama Junya (0144)	Finding high quality lead molecules using Fragment-Based drug discovery approaches (I) Wei Alvin Hung (0460)	Lactose-coupled Supramolecular Hydrogel Responsive to Enzymatic Reaction (I) Masamichi Yamanaka (0067)
17:05-17:20	Manganese catalysts in low temperature NO selective catalytic reduction (CL) Jia Liu (0256)	π -Electron Conjugation in 2D Polymers (I) Dmytro Perepichka (0576)	Hydrogen Release of Liquid Organic Hydrogen Carriers over Alumina Supported Noble Metal Catalysts (I) Young-Woong Suh (0120)	Novel indole based small molecules targeting indoleamine-2, 3-dioxygenase (IDO) for breast and colon cancer impediment (I) Subhabrata Sen (0495)	Immobilizing Organic-Based Molecular Switches into Metal-Organic Frameworks: A Promising Strategy for Switching in Solid State (I) Cheng Wang (0048)
17:20-17:30	Metal Surfaces Showing Unusual Dynamic Dewetting Behavior Against Water and Oils (CL) Atsushi Hozumi (0082)				
17:30-17:35		Enhancing Rectification Behaviour by Increasing Polarizability of Molecular Tunnel Junctions (CL) Xiaoping Chen (0377)	Catalytic Amino Acid Production from Biomass-Derived Intermediates (CL) Yunzhu Wang (0361)		Ferrocene based Thioureas as Non-covalent DNA binders, Synthesis, Crystal structure, Spectral and Electrochemical characterization (CL) Bhajan Lal (0137)
17:35-17:45	Investigation of Oxygen adsorption states of One-Dimensional Pt-Induced Nanowires on Ge(001) (CL) Haicheng Sun (0222)				
17:45-17:50		Luminescent mechanism of quasi-2D CsPb ₂ Br ₅ microplate: single-particle research (CL) Tianxiang Zhang (0496)	Single-pot transformation of biomass-derived furfural to gamma-valerolactone over solid acid catalysts (CL) Hongwei Zhang (0329)		
17:50-18:00					
18:00-18:15		Introduction to CCS Chemistry (CL) Donna Minton	Structure & Dopant Sensitivity in deNO _x Photocatalysis (CL) Sounak Roy (0050)		
18:30	Coach Departure				
19:00-21:00	Speaker's Dinner				