



World Congress & Expo on

# Chemical Engineering & Catalysis

July 23-25, 2018 Osaka, Japan

## Day 1 Jul 23, 2018

<b>Day 1 Jul 23, 2018</b>	
<b>08:00-09:00</b>	<b>Registrations</b>
<b>09:00-09:10</b>	<b>Introduction</b>
<b>09:10-09:30</b>	<b>Opening Ceremony</b>
<b>Plenary Sessions</b>	
<b>09:30-10:15</b>	<p><b>Title:</b> Identification and Characterization of Metal-oxide Particles with Energy-resolved Distribution of Electron Traps</p> <p><b>Bunsho OHTANI</b>, Hokkaido University, Japan</p>
<b>Keynote Session</b>	
<b>10:15-10:45</b>	<p><b>Title:</b> Catalytic Conversion of Glucose and Industrial-grade Sugars Derived from Corn and Wood into 5-HMF in a Biphasic Continuous-Flow Tubular Reactor</p> <p><b>Chunbao (Charles) Xu</b>, Western University, Canada</p>
<b>10:45-11:00</b>	<b>Coffee Break @</b>
<b>11:00-11:30</b>	<p><b>Title:</b> Enzyme formulations for biocatalysis in non-aqueous media</p> <p><b>Francesco Secundo</b>, Institute of Chemistry of Molecular Recognition, Italy</p>
<b>11:30-12:00</b>	<p><b>Title:</b> Advanced PGM-free catalysts based on graphene for low temperature fuel cells</p> <p><b>María Jesús Lázaro</b>, Instituto de Carboquímica (CSIC), Spain</p>
<b>Session 1</b>	<p>Molecular and Heterogeneous Catalysis   Photocatalysis   Electrocatalysis and bioelectrocatalysis   Catalytic Materials and Mechanisms   Catalysis for renewable sources   Process Engineering   Biocatalysis   Fluid dynamics   Industrial Chemical Technology</p>
<b>Invited talks</b>	
<b>Session Chair</b>	<b>Jyh-Chiang Jiang</b> , National Taiwan University of Science and Technology, Taiwan
<b>Session Co-chair</b>	<b>MD Monwar Hossain</b> , UAE University, UAE
<b>12:00-12:25</b>	<p><b>Title:</b> Highly Active TiO<sub>2</sub>-supported Ir Clusters for Steam Reforming of Methane: A Combined Theoretical and Experimental Study</p> <p><b>Jyh-Chiang Jiang</b>, National Taiwan University of Science and Technology, Taiwan</p>

12:25-12:50	<b>Title:</b> Photo- and thermo-degradation of Volatile Organic Compounds Using Micro-nano-rod Molecular Sieve in a Combined Reactor
	<b>Je-Lueng Shie</b> , National I-Lan University, Taiwan
12:50-13:00	Panel Discussion
13:00-14:00	<b>Lunch Break @</b>
14:00-14:25	<b>Title:</b> In situ analysis of water oxidation mechanisms in Ru-based catalysts for artificial photosynthesis
	<b>Yulia Pushkar</b> , Purdue University , USA
14:25-14:50	<b>Title:</b> Optimization, Integration, and Intensification of Distillation Process for Green and Sustainable Chemical Process
	<b>Moonyong Lee</b> ,Yeungnam University, South Korea
14:50-15:15	<b>Title:</b> Effect of Layered Structure on Gas Barrier Properties of a-C:H / SiOCH / a-C:H Thin Films Synthesized by Atmospheric Pressure Chemical Vapor Deposition
	<b>Tetsuya Suzuki</b> , Keio University , Japan
15:15-15:40	<b>Title:</b> Nanoporous Silica Aerogel Membranes for CO2 Capture
	<b>Yi-Feng Lin</b> , Chung Yuan Christian University, Taiwan
15:40-16:05	<b>Title:</b> Catalytic Conversion of Microalgal Oil to Bio-Jet Oil
	<b>Yong K Chang</b> , KAIST, Korea
16:05-16:15	<b>Coffee Break @</b>
16:15-16:40	<b>Title:</b> Surface phenomena of layered double hydroxide (LDH) and its application for the sorption of borate, phosphorus and arsenic from water and wastewater
	<b>JiaQian Jiang</b> , Glasgow Caledonian University, UK
16:40-17:05	<b>Title:</b> An Approximate Solution of Reactive Extraction Process in a Hollow-fibre Membrane Contactor:Applied to Metals and Aroma Compounds:
	<b>MD Monwar Hossain</b> , UAE University, UAE
17:05-17:30	<b>Title:</b> Engineering oxide-based photoelectrodes for solar fuels
	<b>Yan-Gu Lin</b> , National Synchrotron Radiation Research Center, Taiwan
17:30-17:55	<b>Title:</b> Biopolymer Composites for Catalytic Reduction Processes
	<b>Lee D. Wilson</b> , University of Saskatchewan, Canada
19:00 - 20:00	<b>Cocktails @</b>
<b>Day 2 Jul 24, 2018</b>	

Keynote Sessions	
<b>10:00-10:30</b>	<p><b>Title:</b> Tuning Energy Bandgap Semiconducting Materials for Energy Conversion and Environment</p> <p><b>Hyoyoung LEE</b> , Sungkyunkwan University, Republic of Korea</p>
<b>10:30-11:00</b>	<p><b>Title:</b> Computational Studies of Homogeneous, Heterogeneous, and Enzymatic Catalytic Reactions</p> <p><b>Hajime Hirao</b>, City University of Hong Kong, Hong Kong SAR</p>
<b>11:00-11:15</b>	<b>Coffee Break @</b>
<b>Sessions</b>	<p>  Chemical Kinetics   Advances in Catalysis   Catalysis and Energy   Environmental Catalysis  Surface and Colloidal Phenomena   Advances in Catalysis</p>
<b>Session Chair</b>	<b>Ming-Wei Chang</b> , Zhejiang University, China
<b>Session Co-chair</b>	<b>Atsushi Ohtaka</b> , Osaka Institute of Technology, Japan
Invited Talks	
<b>11:15-11:40</b>	<p><b>Title:</b> Engineering of Multi-compartment Composite fibers</p> <p><b>Ming-Wei Chang</b>, Zhejiang University, China</p>
<b>11:40-12:05</b>	<p><b>Title:</b> Reaction Mechanism Unique to Metal Nanoparticles in Hiyama Coupling Reaction in Water</p> <p><b>Atsushi Ohtaka</b>, Osaka Institute of Technology, Japan</p>
<b>12:05-12:30</b>	<p><b>Title:</b>Preparation of CO<sub>2</sub>-Responsive Polymer Nanoparticles</p> <p><b>Yeong-Tarng Shieh</b>, National University of Kaohsiung , Taiwan</p>
<b>12:30-12:55</b>	<p><b>Title:</b>Preparation of CO<sub>2</sub>-Responsive Polymer Nanoparticles</p> <p>Magnetron-sputtered bismuth oxide-based low band gap photocatalysts and their potential for water treatment application.</p>
<b>12:55-13:00</b>	<b>Marina Ratova</b> , Manchester Metropolitan University, UK
<b>13:00-14:00</b>	<b>Lunch Break @</b>
Young Researchers Forum	
<b>12:30-12:45</b>	<p><b>Title:</b> Characteristics of Ca-Modified Iron-Based Oxygen Carriers for Chemical Looping Combustion Process</p> <p><b>HONG</b>, National Taiwan University of Science and Technology, Taiwan</p>
<b>12:45-13:00</b>	<p><b>Title:</b> Efficient treatment of ammonia in aqueous solution by using UV/H<sub>2</sub>O<sub>2</sub> process</p> <p><b>Li-Min Yan</b>, National Taiwan University of Science and Technology, Taiwan</p>

14:00-14:15	<p><b>Title:</b> Iron-Copper Oxygen Carriers with Al<sub>2</sub>O<sub>3</sub> as Support for Chemical Looping Hydrogen Generation</p>
	<p><b>Jing-You, Wu</b>, National Taiwan University of Science and Technology, Taiwan</p>
<b>Featured Talks</b>	
14:15-14:35	<p><b>Title:</b> MOF@IL composite materials as Pd(II) supports for heterogeneous organocatalytic reactions</p>
	<p><b>Edurne Serrano Larrea</b>, Instituto de Ciencia de Materiales de Madrid, Spain</p>
14:35-14:55	<p><b>Title:</b> Application of bismuth-based semiconductors to cytostatic drugs removal from water</p>
	<p><b>Ewa M. Siedlecka</b>, University of Gdańsk, Poland</p>
14:55-15:15	<p><b>Title:</b> Ionizing radiation-induced synthesis of nanomaterials based electro-catalysts on carbon for oxygen reduction reaction (ORR)</p>
	<p><b>Inna L. Soroka</b>, KTH Royal Institute of Technology, Sweden</p>
15:35-15:55	<p><b>Title:</b> Supported Fe or Ni catalysts: simple vapor deposition preparation methods and improved catalytic performances</p>
	<p><b>Xufeng Lin</b>, China University of Petroleum, China</p>
15:55-16:00	<p><b>Panel Discussion</b></p>
16:00-16:15	<b>Coffee Break @</b>
16:15-16:35	<p><b>Title:</b> Catalytic routes for the production of renewable monomers</p>
	<p><b>Keiko Yakabi</b>, Cardiff University, UK</p>
16:35-16:55	<p><b>Title:</b> A Numerical Estimate for the Chemical Kinetics Rate Equation of</p>
	<p><b>ADEWOLE O Mayowa</b>, Atlantic International University, USA</p>
16:55-17:15	<p><b>Title:</b> Pillar-layered Metal-Organic Frameworks; Especial Applications in The Catalyses</p>
	<p><b>Ali Morsali</b>, Tarbiat Modares University, Iran</p>
19:00 - 20:00	<b>Cocktails @</b>
<b>Poster Presentations on Day 2 JULY 24, 2018</b>	
P-001	<p><b>Title:</b> Poly(tetrafluoroethylene)-Stabilized Metal Nanoparticles: Preparation and Evaluation of Catalytic Activity for Several Reactions in Water</p>

	<b>Misa Kawase</b> , Osaka Institute of Technology, Japan
<b>P-002</b>	<b>Title:</b> Oxidative coupling of alkenes with arylboronic acids catalyzed by PS-Rh(III)NPs in Water
	<b>Shiho Fukui</b> , Osaka Institute of Technology, Japan
<b>P-003</b>	<b>Title:</b> Polyaniline-derived porous carbons: Remarkable adsorbents for the removal of personal care products from water
	<b>Dong Kyu Yoo</b> , Kyungpook National University, Republic of Korea
<b>P-004</b>	<b>Title:</b> Removal of wide range of pharmaceutical and personal care products from water by adsorption over metal azolate framework-6-derived porous carbon
	<b>Hyung Jun An</b> , Kyungpook National University, Republic of Korea
<b>P-005</b>	<b>Title:</b> Synthesis of ureas and carbamates by an in situ generation of carbamoyl oximes under metal-free conditions
	<b>Jeh-Jeng Wang</b> , Kaohsiung Medical University, Taiwan
<b>P-006</b>	<b>Title:</b> Biodegradable Bisvinyl Sulfonemethyl-crosslinked Gelatin Conduit Promotes Regeneration after Peripheral Nerve Injury in Adult Rats
	<b>Yueh-Sheng Chen</b> , China Medical University, Taiwan
<b>P-007</b>	<b>Title:</b> SiO <sub>2</sub> -modified Pt/Al <sub>2</sub> O <sub>3</sub> for oxidative dehydrogenation of ethane: a new preparation method for improved catalytic stability, ethylene selectivity
	<b>Yanyan Xi</b> , China University of Petroleum, China
<b>P-008</b>	<b>Title:</b> Cold-Quenching Synthesis of Bowl-Shaped Graphene
	<b>Linlin Zhong</b> , Gachon University, Republic of Korea
<b>P-009</b>	<b>Title:</b> Synthesis of homogeneous core-shell MnO@Cnanowires with excellent electromagnetic wave absorption performance
	<b>Yongli Duan</b> , China University of Petroleum, China
<b>P-010</b>	<b>Title:</b> Purification and characterization of glutamate decarboxylase
	<b>Chien-Hui Wu</b> , National Kaohsiung University of Science and Technology, Taiwan
<b>P-011</b>	<b>Title:</b> Facile synthesis of ultrathin CoS nanosheets
	<b>Chi Ma</b> , China University of Petroleum, China
<b>P-012</b>	<b>Title:</b> Synthesis of three-dimensional graphene from petroleum

P-012	<b>Zhuchen Liu</b> , China University of Petroleum, China
P-013	<b>Title: Synthesis of a Dual-stimuli Amphiphilic Block Copolymer via</b>
	<b>Tzong-Liu Wang</b> , National University of Kaohsiung, Taiwan
P-014	<b>Title: Medium optimization of Antarctic microorganism cold-adaptive protease</b>
	<b>Jong-il CHOI</b> , Chonnam National University, South Korea
P-015	<b>Title: Application of high pressure processing on preservation of marlin fillet during storage</b>
	<b>Yi-Chen Lee</b> , National Kaohsiung University of Science and Technology , Taiwan
<b>***Note: This is a Tentative Program, it is Subjected to slight changes till Final Program</b>	