



World Congress & Expo on

Chemical Engineering & Catalysis

July 23-25, 2018 Osaka, Japan

Day 1 Jul 23, 2018

08:00-09:00	Registrations
09:00-09:10	Introduction
09:10-09:30	Opening Ceremony
Plenary Sessions	
09:30-10:15	<p>Title: Yet to be finalized</p> <p>Bunsho OHTANI, Hokkaido University, Japan</p>
10:15-11:00	<p>Title: Yet to be finalized</p> <p>Ben Zhong Tang, The Hong Kong University of Science and Technology, Hong Kong</p>
11:00-11:15	Coffee Break @
11:15-12:00	<p>Title: Probing Electrochemical Reactions under Operando Condition</p> <p>Bin Liu, National University of Singapore, Singapore</p>
Keynote Session	
12:00-12:30	<p>Title: 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>Chunbao (Charles) Xu, Western University, Canada</p>
12:30-13:00	<p>Title: Enzyme formulations for biocatalysis in non-aqueous media</p> <p>Francesco Secundo, Institute of Chemistry of Molecular Recognition, Italy</p>
13:00-14:00	Lunch Break @
Invited talks	
Session Chair	Yet to be finalized
Session Co-chair	Yet to be finalized
14:00-14:25	<p>Title: Highly Active TiO₂-supported Ir Clusters for Steam Reforming of Methane: A Combined Theoretical and Experimental Study</p> <p>Jyh-Chiang Jiang, National Taiwan University of Science and Technology, Taiwan</p>
14:25-14:50	<p>Title: Photo- and thermo-degradation of Volatile Organic Compound Using Micro-nano-rod Molecular Sieve in A Combined Reactor</p>

	Je-Lueng Shie , National I-Lan University, Taiwan
14:50-15:15	Title: In situ analysis of water oxidation mechanisms in Ru-based catalysts for artificial photosynthesis
	Yulia Pushkar , Purdue University, USA
15:15-15:40	Title: Optimization, Integration, and Intensification of Distillation Process for Green and Sustainable Chemical Process Moonyong Lee , Yeungnam University, South Korea
15:20-15:40	Title: An Approximate Solution of Reactive Extraction Process in a Hollow-fibre Membrane Contactor: Applied to Metals and Aroma Compounds: MD Monwar Hossain , UAE University, UAE
15:40-16:00	Panel Discussion
16:00-16:15	Coffee Break @
16:15-16:40	Title: Air-Clad Optical Fibres for the in situ Photocatalytic Degradation of Emerging Contaminants in Groundwater John Zhou , University of Technology Sydney, Australia
16:40-17:05	Title: Nanoporous Silica Aerogel Membranes for CO ₂ Capture Yi-Feng Lin , Yuan Christian University, Taiwan
17:05-17:30	Title: Surface phenomena of layered double hydroxide (LDH) and its application for the sorption of borate, phosphorus and arsenic from water and Marina Ratova , Manchester Metropolitan University, UK
17:30-17:55	Title: Magnetron-sputtered bismuth oxide-based low band gap photocatalysts and their potential for water treatment application JiaQian Jiang , Glasgow Caledonian University, UK
17:55-18:20	Title: Catalytic oxidation and adsorption of mercury in coal-fired power plant Yongchun Zhao , Huazhong University of Science and Technology, China
	Title: Surface Reaction on Bimetal Catalysts Probed with Ambient Pressure

17:20-18:45	Jeong Young Park , Korea Advanced Institute of Science and Technology(KAIST), South Korea
18:45-19:00	Panel Discussion
19:00 - 20:00	Cocktails @
Day 2 Jul 24, 2018	
Keynote Sessions	
10:00-10:30	Title: Comparative studies of the catalytic performance using different solid catalysts in CWPO of organic matter in aqueous middle Farid ZERROUQ , University SMBA of Fez, Morocco
10:30-11:00	Title: Tuning Energy Bandgap Semiconducting Materials for Energy Conversion and Environment Hyoyoung LEE , Sungkyunkwan University, Republic of Korea
11:00-11:15	Coffee Break @
Session 1	Molecular and Heterogeneous Catalysis Photocatalysis Electrocatalysis and bioelectrocatalysis Catalytic Materials and Mechanisms Catalysis for renewable sources Process Engineering Biocatalysis Fluid dynamics
Session Chair	Yet to be finalized
Session Co-chair	Yet to be finalized
11:15-11:35	Title: MOF@IL composite materials as Pd(II) supports for heterogeneous organocatalytic reactions Edurne Serrano Larrea , Instituto de Ciencia de Materiales de Madrid, Spain
11:35-11:55	Title: Application of bismuth-based semiconductors to cytostatic drugs removal from water Ewa M. Siedlecka , 1University of Gdańsk, Poland
11:55-12:15	Title: Reaction Mechanism Unique to Metal Nanoparticles in Hiyama Coupling Reaction in Water Atsushi Ohtaka , Osaka Institute of Technology, Japan
12:15-12:35	Title: Advanced PGM-free catalysts based on graphene for low temperature fuel cells

	María Jesús Lázaro , Instituto de Carboquímica (CSIC), Spain
12:35-12:55	Title: Ionizing radiation-induced synthesis of nanomaterials based electro-catalysts on carbon for oxygen reduction reaction (ORR) Inna Soroka , KTH Royal Institute of Technology, Sweden
13:00-14:00	Lunch Break @
14:00-14:20	Title: Supported Fe or Ni catalysts: simple vapor deposition preparation Xufeng Lin , China University of Petroleum, China
14:20-14:40	Title: Simulation of magnetic drug targeting through tracheobronchial airways in the presence of an external non-uniform magnetic field using Lagrangian magnetic particle tracking Keiko Yakabi , Cardiff University, UK
14:40-15:00	Title: Biopolymer Composites for Catalytic Reduction Processes Lee D. Wilson , University of Saskatchewan, Canada
15:00-15:15	Title: Characteristics of Ca-Modified Iron-Based Oxygen Carriers for Chemical Looping Combustion Process HONG , National Taiwan University of Science and Technology, Taiwan
15:15-15:30	Title: Iron-Copper Oxygen Carriers with Al ₂ O ₃ as Support for Chemical Jing-You, Wu , National Taiwan University of Science and Technology, Taiwan
15:30-15:45	Title: Efficient treatment of ammonia in aqueous solution by using UV/H ₂ O ₂ process Li-Min Yan , National Taiwan University of Science and Technology, Taiwan
15:45-16:00	Panel Discussion
16:00-16:15	Coffee Break @
16:15-16:40	Title: Microfluidic Preparation of Smart Emulsions and Functional Microparticles Xu Jianhong , Tsinghua University, China
16:40-17:05	Invited Speaker Slot available
17:05-17:30	Invited Speaker Slot available
17:55-18:20	Invited Speaker Slot available

18:20-18:45	Invited Speaker Slot available
19:00 - 20:00	Cocktails @
Poster Presentations on Day 2 JULY 24, 2018	
P-001	Title: Studies of the kinetics and mechanism of the removal process of Brilliant green dye through adsorption by natural clay Aziz Elbadraoui , University SMBA of Fez, Morocco
P-002	Title: Fast synthesis of nanoporous silica aerogels under microwave heating Ana Arenillas , INCAR-CSIC, Spain
P-003	Title: Graphene doped carbon xerogels for supercapacitor electrodes J. Angel Menéndez , INCAR-CSIC, Spain
P-004	Title: Poly(tetrafluoroethylene)-Stabilized Metal Nanoparticles: Preparation and Evaluation of Catalytic Activity for Several Reactions in Water Misa Kawase , Osaka Institute of Technology, Japan
P-005	Title: Oxidative coupling of alkenes with arylboronic acids catalyzed by PS-Rh(III)NPs in Water Shiho Fukui , Osaka Institute of Technology, Japan
P-006	Title: Polyaniline-derived porous carbons: Remarkable adsorbents for the removal of personal care products from water Dong Kyu Yoo , Kyungpook National University, Republic of Korea
P-007	Title: Removal of wide range of pharmaceutical and personal care products from water by adsorption over metal azolate framework-6-derived porous carbon Hyung Jun An , Kyungpook National University, Republic of Korea
P-008	Title: Synthesis of ureas and carbamates by an in situ generation of carbamoyl oximes under metal-free conditions Jeh-Jeng Wang , Kaohsiung Medical University, Taiwan
P-009	Title: Biodegradable Bisvinyl Sulfonemethyl-crosslinked Gelatin Conduit Promotes Regeneration after Peripheral Nerve Injury in Adult Rats

	Yueh-Sheng Chen , China Medical University, Taiwan
P-010	Title: An experimental semi-natural composite material Mervi Puska , University of Turku, Finland
P-011	Title: Cold-Quenching Synthesis of Bowl-Shaped Graphene Linlin Zhong , Gachon University, Republic of Korea
P-012	Poster Opportunity Available
Day 3 Jul 25, 2018	
10:00-10:20	Title: Catalytic Conversions of Biomass Molecules to Useful Products Edman Tsang , University of Oxford, UK
10:20-10:40	Title: Trends in Engineering and Catalysis of Modern Refinery Production of Gasoline Octane Blends: An Overview Dan Fraenkel , Rolier Technologies LLC, USA
10:40-11:00	Title: Bifunctional Oxygen Reduction / Evolution Reaction (ORR/OER) Catalysts for Rechargeable Metal-Air Batteries and Regenerative Fuel Cells Elod Gyenge , University of British Columbia, Canada
11:00-11:15	Coffee Break @
Session 1	Industrial Chemical Technology Chemical Kinetics Advances in Catalysis Catalysis and Energy Environmental Catalysis Surface and Colloidal Phenomena Advances in Catalysis
Session Chair	Yet to be finalized
Session Co-chair	Yet to be finalized
11:15-11:35	Title: Catalysis of carbon dioxide conversion of methane over a Tungsten Carbide obtained by mehanochemical and plasmomechanochemical methods Levon Tavadyan , A.B. Nalbandyan Institute of Chemical Physics NAS RA, Armenia

11:35-11:55	<p>Title: A Numerical Estimate for the Chemical Kinetics Rate Equation of the Decomposition Effects of Iodine on some Chemical Compounds based on the Euler-Schemes: 'Euler & Modified Numerical Euler Schemes'</p> <p>ADEWOLE O Mayowa, Atlanctic International University, USA</p>
11:55-12:15	<p>Title: Enhancing dye-sensitized solar cells by optimizing the characteristics of deposited semiconductor nanoparticles</p> <p>Saeid Vafaei, Bradley University, USA and Gifu University, Japan</p>
12:15-12:35	<p>Title: Pillar-layered Metal-Organic Frameworks; Especial Applications in The Catalyses</p> <p>Ali Morsali , Tarbiat Modares University,Iran</p>
12:35-12:55	<p>Title: Low cost catalyst for green oxidation of alcohol</p> <p>M. Sadiq, University of Malakand ,Pakistan</p>
13:00-14:00	Lunch Break @
14:00-14:20	<p>Title: Structure-related influence of zeolites on methanol to hydrocarbons (MTH) conversion</p> <p>Zhaohui Liu, King Abdullah University of Science and Technology (KAUST), Saudi Arabia</p>
14:20-14:40	<p>Title: Waugh type [CoMo₉O₃₂]⁶⁻ cluster with atomically dispersed Co^{IV} derives from Anderson type [CoMo₆O₂₄]³⁻ anion for photocatalytic oxygen molecule activation</p> <p>Jiangwei Zhang, Dalian Institute of Chemical Physics, China</p>
14:40-15:00	<p>Title: Nitrogen-Doped Graphene: Insights into its Application in Catalytic Oxidation of Recalcitrant Organic Pollutants via Peroxymonosulfate Activation</p> <p>Teik-Thye Lim, Nanyang Technological University, Singapore</p>
15:00-15:20	<p>Title: Electroflotation of fine hematite particles using a Gram positive bacteria</p> <p>Maurício Leonardo Torem, Pontifical Catholic University of Rio de Janeiro, Brazil</p>
15:20-15:40	Speaker Slot available
15:40-16:00	Speaker Slot available
16:00-16:20	Speaker Slot available
16:20-16:40	Speaker Slot available

16:40-17:00	Speaker Slot available
17:00-17:20	Speaker Slot available
17:20-17:40	Speaker Slot availble
17:40-18:00	Panel Discussion
19:00 - 20:00	Cocktails @
***Note: This is a Tentative Program, it is Subjected to slight changes till Final Program	



