

# ICPAC2018 – VIP Grand II, 1st Floor

Wednesday, 7 March 2018	
Thematic Session: Physical Chemistry and Catalysis (PCC)	
Venue: VIP Grand II, 1st Floor, Lobby Level	
<b>Session IIa</b>	<b>Chairperson: Assoc Prof Dr Juan Joon Ching University of Malaya, Malaysia</b>
<b>1030 – 1100</b>	PCC 01 (Keynote Lecture) <b>Efficient Photocatalysts for H<sub>2</sub> and O<sub>2</sub> Evolution from Water under Solar Light Irradiation</b> Tetsuro Majima Osaka University, Japan
<b>1120 – 1140</b>	PCC 03 (Award Lecture) <b>Trapping-Induced Enhancement of Photocatalytic Activity on TiO<sub>2</sub> Powders</b> Akira Yamakata Toyota Technological Institute, Japan
<b>1140 – 1200</b>	PCC 04 (Invited Lecture) <b>Photocatalytic and Photoelectrochemical Water Oxidation using Oxynitrides</b> Hideki Kato Tohoku University, Japan
<b>1200 – 1220</b>	PCC 26 (Invited Lecture) <b>Frontier Orbital Perspective for Electron Transport in Alternant and Nonalternant Hydrocarbons</b> Yuta Tsuji Kyushu University, Japan
<b>1220 – 1240</b>	PCC 06 (Invited Lecture) <b>Conformational Analysis of Enantioselective Mukaiyama–Mannich Reaction by Cyclopentadiene-Based Brønsted Acid</b> Takashi Kamachi Fukuoka Institute of Technology, Japan
<b>1240 – 1400</b>	Lunch / Posters
<b>Session IIb</b>	<b>Chairperson: Tetsuro Majima Osaka University, Japan</b>
<b>1400 – 1420</b>	PCC 07 (Invited Lecture) <b>Liesegang phenomenon: Chemical Model for Pattern Formations in Nature</b> Hideki Nabika Yamagata University, Japan
<b>1420 – 1440</b>	PCC 08 (Invited Lecture) <b>Exciton Dynamics in Organic Optoelectronic Materials</b> Takatoshi Fujita Institute for Molecular Science, Japan
<b>1440 – 1500</b>	PCC 09 (Invited Lecture) <b>Theoretical Study on Conversion of Methane to Higher Hydrocarbons by Liquid-Metal Indium</b> Yuhki Ohtsuka Hokkaido University, Japan

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<b>1500 – 1520</b>	PCC 10 (Invited Lecture) <b>In-Silico Ammonia Synthesis Using Heterogeneous Catalysts. A First-Principles Molecular Dynamics Study</b> <b>Manabu Sugimoto</b> Kumamoto University, Japan
<b>1520 – 1540</b>	PCC 11 (Invited Lecture) <b>SMASH: Massively Parallel Software for Quantum Chemistry Calculations</b> Kazuya Ishimura Institute for Molecular Science, Japan
<b>1540 – 1600</b>	PCC 12 (Invited Lecture) <b>High-Pressure Microscopy for Controlling Molecular Machines in Living Cells</b> Masayoshi Nishiyama Kyoto University, Japan
<b>1600 – 1630</b>	Refreshments
<b>Session IIc</b>	<b>Chairperson: Tetsuro Majima</b> <b>Osaka University, Japan</b>
<b>1630 – 1650</b>	PCC 13 (Invited Lecture) <b>Preparation of Metal Nanoparticles in Low Vapor Pressure Liquids and Their Applications</b> Yoshikiyo Hatakeyama Gunma University, Japan
<b>1650 – 1710</b>	PCC 14 (Invited Lecture) <b>Theoretical Study on the Geometry and Size Effect on the Catalytic Activity of Gold Clusters</b> Gao Min Hokkaido University, Japan
<b>1710 – 1730</b>	PCC 15 (Invited Lecture) <b>Theoretical Study on Photoreactivity and Phosphorescence Capabilities: Systematic Search of Intersystem Crossing Pathways</b> Kenichiro Saita Hokkaido University, Japan
<b>1730</b>	End

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Thursday, 8 March 2018	
Thematic Session: <b>Physical Chemistry and Catalysis (PCC)</b>	
Venue: VIP Grand II, 1st Floor, Lobby Level	
<b>Session IId</b>	<b>Chairperson: Akira Yamakata</b> <b>Toyota Technological Institute, Japan</b>
<b>0900 – 0930</b>	PCC 16 (Keynote) <b>Physico-chemical Properties of Mesoporous Material for Biofuel Production</b> Joon Ching Juan University of Malaya, Malaysia
<b>0930 – 0950</b>	PCC 17 (Invited Lecture) <b>Theoretical Study of Decay Paths in Photoreactions based on Automated Exploration of Minimum Energy Conical Intersection and Seam of Crossing Geometries</b> Yu Harabuchi Hokkaido University, Japan
<b>1000 – 1030</b>	Refreshments
<b>1030 – 1245</b>	Plenary Lectures 1, 2, & 3 <i>Venue: Sophanith Ballroom 1st Floor, Lobby Level</i>
<b>1245 – 1400</b>	Lunch
<b>Session IIe</b>	<b>Chairperson: Assoc Prof Dr Juan Joon Ching</b> <b>University of Malaya, Malaysia</b>
<b>1400 – 1420</b>	PCC 18 (Invited Lecture) 2-Dimensional Nanocarbons for Catalytic Organic Reactions Yuta Nishina Okayama University, Japan
<b>1420 – 1440</b>	PCC 19 (Invited Lecture) <b>Relativistic quantum Monte Carlo methods</b> Yutaka Nakatsuka Gifu University, Japan
<b>1440 – 1500</b>	PCC 20 (Invited Lecture) <b>Oxide Nanosheet Photocatalysts for Water Splitting</b> Shintaro Ida Kumamoto University, Japan
<b>1500 – 1520</b>	PCC 21 (Invited Lecture) <b>MRI-based Gel Dosimeter for Heavy ion Beam Cancer Therapy</b> Takuya Maeyama Kitasato University, Japan
<b>1520 – 1540</b>	PCC 22 (Invited Lecture) <b>Centrochiral Transition Metal Complexes for Catalytic Asymmetric [3+2] Cycloaddition of <math>\alpha</math>-ketoester Enolates</b> Yoshihiro Sohtome Institute of Physical and Chemical Research, Japan
<b>1540 – 1600</b>	PCC 23 (Invited Lecture) <b>Visible Light-Driven Hydrogen Generation Using Ir(III) Photosensitizers Incorporated in Vesicles</b> Shin-ya Takizawa The University of Tokyo, Japan
<b>1600 – 1630</b>	Refreshments

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<b>Session II f</b>	<b>Chairperson: Assoc Prof Dr Juan Joon Ching</b> <b>University of Malaya, Malaysia</b>
<b>1630 – 1650</b>	PCC 24 (Invited Lecture) <b>Highly Active and Selective Electrocatalysts based on Covalent Organic Frameworks Modified with Single Metal Atoms</b> Kazuhide Kamiya Osaka University, Japan
<b>1650 – 1710</b>	PCC 25 (Invited Lecture) <b>Thermal Decomposition Behavior of Supported Platinum Salt for Catalyst Preparation</b> Takashi Yamamoto Tokushima University, Japan
<b>1710 – 1730</b>	PCC 05 (Invited Lecture) <b>Role of the Acid-Base and Redox Sites on Catalytic Reactions at the Liquid/CeO<sub>2</sub> Interface</b> Akira Nakayama Hokkaido University, Japan
<b>1730</b>	End

### Saturday, 10 March 2018

Thematic Session:

#### Physical Chemistry and Catalysis (PCC)

Venue: VIP Grand II, 1st Floor, Lobby Level

<b>Session II g</b>	<b>Chairperson: Prof Tan Guan Huat</b> <b>University of Malaya, Malaysia</b>
<b>0900 – 0920</b>	PCC 27 (Invited Lecture) <b>Different Photoisomerization Routes in the Structural Isomers of Cinnamate Based Sunscreens</b> Kaoru Yamazaki Tohoku University, Japan
<b>0940 – 1000</b>	PCC 29 (Invited Lecture) <b>Design of Functional Liquids based on ab initio Materials Informatics</b> Hiroto Mori Ochanomizu University, Japan
<b>1000 – 1030</b>	Refreshments
<b>Session II h</b>	<b>Chairperson: Prof Tan Guan Huat</b> <b>University of Malaya, Malaysia</b>
<b>1030 – 1050</b>	PCC 30 (Oral Presentation) <b>Crystal structure prediction by Artificial Force Induced Reaction method: A case study on carbon crystal</b> Makito Takagi Hokkaido University, Japan
<b>1050 – 1110</b>	PCC 31 (Invited Lecture) <b>Development of Plasmonic Cu<sub>2</sub>O/Cu Composite Arrays as Plasmonic Photocatalysts</b> Kosuke Sugawa Nihon University, Japan
<b>1110 – 1130</b>	PCC 32 (Invited Lecture) <b>Effect of Ultraviolet Light Irradiation on Solution Processed ZnO Films</b> Hajime Wagata Meiji University, Japan
<b>1130 – 1150</b>	PCC 33 (Invited Lecture) <b>Recent Advance in Nitride Photocatalyst for New Hydrogen Energy Source</b> Tomoaki Watanabe Meiji University, Japan

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<b>1150 – 1210</b>	PCC 34 (Invited Lecture) <b>Utilizing the Space of Molecular Nanocarbon Assemblies</b> Hirotooshi Sakamoto Nagoya University, Japan
<b>1210 – 1230</b>	PCC 35 (Invited Lecture) <b>Theoretical Investigation on Structural Stability and Catalytic Activity of Platinum Clusters of Low Atomicity</b> Naoki Haruta Tokyo Institute of Technology, Japan
<b>1230 – 1400</b>	Lunch / Posters
<b>Session Iii</b>	Chairperson: Prof Takaaki Sato Keio University, Japan
<b>1400 – 1420</b>	PCC 36 (Invited Lecture) <b>Controlling Selective Hydrogenation Performances on Ru Nanocluster / K-Al<sub>2</sub>O<sub>3</sub> Catalyst</b> Satoshi Muratsugu Nagoya University, Japan
<b>1420 – 1440</b>	PCC 37 (Invited Lecture) <b>Infrared-Emissive Luminescent Mechanochromism of Anthryl Gold Isocyanide Complex</b> Tomohiro Seki Hokkaido University, Japan
<b>1440 - 1500</b>	FMC 05 (Invited Lecture) <b>MGeND: A new Integrated Database of Clinical and Genomic Information developed in Japan</b> Masahiko Nakatsui Kyoto University, Japan
<b>1600 – 1630</b>	Refreshments
<b>1630</b>	End