

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	
Session IIa	Chairperson: Assoc Prof Dr Juan Joon Ching University of Malaya, Malaysia
1030 – 1100	PCC 01 (Keynote Lecture) Efficient Photocatalysts for H₂ and O₂ Evolution from Water under Solar Light Irradiation Tetsuro Majima Osaka University, Japan
1120 – 1140	PCC 03 (Award Lecture) Trapping-Induced Enhancement of Photocatalytic Activity on TiO₂ Powders Akira Yamakata Toyota Technological Institute, Japan
1140 – 1200	PCC 04 (Invited Lecture) Photocatalytic and Photoelectrochemical Water Oxidation using Oxynitrides Hideki Kato Tohoku University, Japan
1200 – 1220	PCC 26 (Invited Lecture) Frontier Orbital Perspective for Electron Transport in Alternant and Nonalternant Hydrocarbons Yuta Tsuji Kyushu University, Japan
1220 – 1240	PCC 06 (Invited Lecture) Conformational Analysis of Enantioselective Mukaiyama–Mannich Reaction by Cyclopentadiene-Based Brønsted Acid Takashi Kamachi Fukuoka Institute of Technology, Japan
1240 – 1400	Lunch / Posters
Session IIb	Chairperson: Tetsuro Majima Osaka University, Japan
1400 – 1420	PCC 07 (Invited Lecture) Liesegang phenomenon: Chemical Model for Pattern Formations in Nature Hideki Nabika Yamagata University, Japan
1420 – 1440	PCC 08 (Invited Lecture) Exciton Dynamics in Organic Optoelectronic Materials Takatoshi Fujita Institute for Molecular Science, Japan
1440 – 1500	PCC 09 (Invited Lecture) Theoretical Study on Conversion of Methane to Higher Hydrocarbons by Liquid-Metal Indium Yuhki Ohtsuka Hokkaido University, Japan

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

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

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Session II f	Chairperson: Assoc Prof Dr Juan Joon Ching University of Malaya, Malaysia
1630 – 1650	PCC 24 (Invited Lecture) Highly Active and Selective Electrocatalysts based on Covalent Organic Frameworks Modified with Single Metal Atoms Kazuhide Kamiya Osaka University, Japan
1650 – 1710	PCC 25 (Invited Lecture) Thermal Decomposition Behavior of Supported Platinum Salt for Catalyst Preparation Takashi Yamamoto Tokushima University, Japan
1710 – 1730	PCC 05 (Invited Lecture) Role of the Acid-Base and Redox Sites on Catalytic Reactions at the Liquid/CeO₂ Interface Akira Nakayama Hokkaido University, Japan
1730	End

Saturday, 10 March 2018

Thematic Session:

Physical Chemistry and Catalysis (PCC)

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Session II g	Chairperson: Prof Tan Guan Huat University of Malaya, Malaysia
0900 – 0920	PCC 27 (Invited Lecture) Different Photoisomerization Routes in the Structural Isomers of Cinnamate Based Sunscreens Kaoru Yamazaki Tohoku University, Japan
0940 – 1000	PCC 29 (Invited Lecture) Design of Functional Liquids based on ab initio Materials Informatics Hiroto Mori Ochanomizu University, Japan
1000 – 1030	Refreshments
Session II h	Chairperson: Prof Tan Guan Huat University of Malaya, Malaysia
1030 – 1050	PCC 30 (Oral Presentation) Crystal structure prediction by Artificial Force Induced Reaction method: A case study on carbon crystal Makito Takagi Hokkaido University, Japan
1050 – 1110	PCC 31 (Invited Lecture) Development of Plasmonic Cu₂O/Cu Composite Arrays as Plasmonic Photocatalysts Kosuke Sugawa Nihon University, Japan
1110 – 1130	PCC 32 (Invited Lecture) Effect of Ultraviolet Light Irradiation on Solution Processed ZnO Films Hajime Wagata Meiji University, Japan
1130 – 1150	PCC 33 (Invited Lecture) Recent Advance in Nitride Photocatalyst for New Hydrogen Energy Source Tomoaki Watanabe Meiji University, Japan

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1150 – 1210	PCC 34 (Invited Lecture) Utilizing the Space of Molecular Nanocarbon Assemblies Hirotohi Sakamoto Nagoya University, Japan
1210 – 1230	PCC 35 (Invited Lecture) Theoretical Investigation on Structural Stability and Catalytic Activity of Platinum Clusters of Low Atomicity Naoki Haruta Tokyo Institute of Technology, Japan
1230 – 1400	Lunch / Posters
Session Iii	Chairperson: Prof Takaaki Sato Keio University, Japan
1400 – 1420	PCC 36 (Invited Lecture) Controlling Selective Hydrogenation Performances on Ru Nanocluster / K-Al₂O₃ Catalyst Satoshi Muratsugu Nagoya University, Japan
1420 – 1440	PCC 37 (Invited Lecture) Infrared-Emissive Luminescent Mechanochromism of Anthryl Gold Isocyanide Complex Tomohiro Seki Hokkaido University, Japan
1600 – 1630	Refreshments
1630	End