ICG 2019

4th Edition of International Conference on

CATALYSIS AND Green Chemistry

Theme:

Catalyzing Inventive Technologies and Estimating Methodologies to Modernize the approaches in Catalysis and Green Chemistry

> MAY 13-14, 2019 TOKYO, JAPAN

Radisson Hotel Narita 286-0221 Chiba Tomisato-shi Nakaei 650-35 Japan

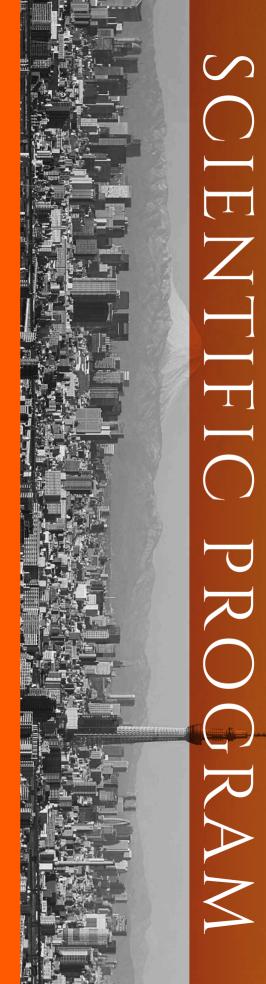
Collaboration & Publishing partne





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Day 1 May 13, 2019 (Monday) @ Meeting Room 2

08:00-08:40 Registrations

Moderator Feng Han, Nanyang Technological University (NTU), Singapore

08:40-09:00 Introduction

Keynote Presentations

09:00-09:40	Title: Domino reactions. The green and economical art of chemical synthesis Lutz F. Tietze, Georg-August-University Göttingen, Germany
09:40-10:20	Tilte: Chiral catalysts derived from biomass: Design, synthesis and applications in asymmetric catalysis Giang Vo-Thanh, Institute of Molecular Chemistry and Materials in Orsay, France
10:20-11:00	Title: Catalysts and catalytic processes for converting waste to fungible liquid fuels and chemicals Moti Herskowitz, Ben Gurion University at Negev, Israel

GROUP PHOTO

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11.00-11.70	Coffee Break	@ Fover
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Oral Presentations

12:20-12:40

Oral Presentations		
		Sessions on: Green Chemistry Catalysis in Nanotechnology Synthetic Chemistry Techniques Chemical Engineering Photochemistry and Electrochemistry Analytical Methodologies Advances in Catalysis and Green Chemistry
	Session Chairs :	Moti Herskowitz, Ben Gurion University at Negev, Israel Giang Vo-Thanh, Institute of Molecular Chemistry and Materials in Orsay, France
	11:20-11:40	Title: Green synthesis and the photothermal effect of transparent chlorophyll thin-films Donglu Shi, University of Cincinnati, USA
	11:40-12:00	Title: Carbon deposits in a single catalyst particle as studied by correlated 3-D X-ray microscopy and pore network modeling Roozbeh Valadian, Debye Institute for Nanomaterials Science, Netherlands
	12:00-12:20	Title: Techno-economic analysis of coal to liquids based on direct coal liquefaction technology Ye Huang, Ulster University, United Kingdom
		Title: Cellular automata based simulations for the autocatalytic mechanism in pitting

Janusz Stafiej, Cardinal Stefan Wyszynski University, Poland

12:40-13:00	Title: An efficient way of producing fuel hydrocarbon from CO ₂ and activated water Tadayuki Imanaka, Ritsumeikan University, Japan
13:00-14:00	Lunch Break @ Hotel Restaurant
14:00-14:20	Title: "Bio-based solvent": New solvent for the synthesis of heterocycles containing oxygen, sulfur and nitrogen Joana Filomena Campos, Université d'Orléans, France
14:20-14:40	Title: DOZN™- A quantitative green chemistry evaluator Samy Ponnusamy, MilliporeSigma, USA
14:40-15:00	Title: How the design of nanomaterials allows to control their properties Sophie Cassaignon, Sorbonne University, France
15:00-15:20	Title: CO oxidation over Au catalysts supported on CuO/Cu_2O both in O_2 -rich and H_2 -rich streams: Necessity of copper oxide Caixia Qi, Yantai University, China
15:20-15:40	Title: Catalytic options for methane valorization catalyst performance evaluation using parallel fixed bed reactor systems and data driven catalyst development Rudolf Wessels, Avantium, Netherlands
15:40-16:00	Title: A well-defined fe catalyst system bearing a tetradentate PNNP ligand: Selective synthesis of hydrosiloxanes via dehydronegative coupling of silanols with hydrosilanes Yumiko Nakajima, National Institute of Advanced Industrial Science and Technology (AIST), Japan
16:00-16:20	Coffee Break @ Foyer
16:20-16:40	Title: Implantable biofuel cell, past, present and future Abdelkader Zebda, University Grenoble Alpes, France
16:40-17:00	Title: Role and significance of molybdenum disulfide (MoS ₂) as a cocatalyst for photocatalytic hydrogen production S.V. Prabhakar Vattikuti, Yeungnam University, Republic of Korea
17:00-17:20	Title: Low temperature catalytic oxidations on bimetallic catalysts employing molecular oxygen Ziyi Zhong, Guangdong Technion Israel Institute of Technology, China
17:20-17:40	Title: High-Frequency and Far-Field EPR and Far-Infrared magnetic spectroscopy of transition metal complexes with catalytic properties Jurek Krzystek, National High Magnetic Field Laboratory, USA
17:40-18:00	Title: Multi-walled carbon nanotubes decorated with Cu(II) triazole Schiff base complex and its catalytic performance for adsorptive removal of synthetic dyes Hoda A. El-Ghamry, Umm Al-Qura University, Saudi Arabia

Day 1 May 13, 2019 (HALL 2) @ Meeting Room 3

Sessions on: Environmental Catalysis | Catalysts and Catalytic Processes | Recent trends in Catalysis and Green Chemistry

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Session Chair :	Angelo Vaccari, Università di Bologna, Italy
11:20-11:40	Title: R&D of New Catalysts for the Water Gas Shift Processes Angelo Vaccari, Università di Bologna, Italy
11:40-12:00	Title: A green approach for the recovery of proteins from meat industries Abel E. Navarro, Borough of Manhattan Community College, USA
12:00-12:20	Title: Catalytic hydrogenation of stearic acid to stearyl alcohol over cobalt silica catalysts Zeni Rahmawati, University of Aberdeen, United Kingdom
12:20-12:40	Title: Adsorption of Zinc Acetate (aqueous solutions) on modified Activated Carbon Hoang Kim Bong, Lomonosov Moscow State University of Fine Chemical Technologies, Russia
12:40-13:00	Title: The importance of NOx and ${\rm CO_2}$ on grain and fish production, protection of global warming Shoichiro Ozaki, The Institute of Physical and Chemical Research, Japan
13:00-14:00	Lunch Break @ Hotel Restaurant
14:00-14:20	Title: Beneficial effect of glycols on the activity of NiMoP/Al ₂ O ₃ hydrotreating catalysts Evgeniya N. Vlasova, Novosibirsk National Research University, Russia
14:20-14:40	Title: Reactants-induced dynamic responses of the surface of heterogeneous catalysts monitored by microcalorimetry beyond adsorption Sabine Wrabetz, Fritz Haber Institute of the Max Planck, Germany
14:40-15:00	Title: Unraveling the controversy over the catalytic reaction mechanism using a new theoretical methodology: One probe and non-equilibrium green's function surface Sang Uck Lee, Hanyang University, Republic of Korea
15:00-15:20	Title: Description of mass transport through an asymmetric, bio-catalytic membrane reactors Endre Nagy, University of Pannonia, Hungary
15:20-15:40	Title: Efficient nano-regional photocatalytic heterostructure design via the manipulation of reaction site self-quenching effect Feng Han, Nanyang Technological University (NTU), Singapore
15:40-16:00	Title: Ru/TiO ₂ CO ₂ methanation catalysts: The decisive role of support crystallinity and stability Capucine Sassoye, Sorbonne Université, France

16:00-16:20	Coffee Break	@ Foyer
16:20-16:40	Title: The most eco-friendly precious metal mining & e-waste proc Gordon Yu, Taiwan Hsinchu Green Industry Association, Taiwan	essing in the world
16:40-17:00	Title: $Cu_x Ce_{1-x}O_2$ nanoflake type catalysts with improved catalytic a stability for diesel soot combustion Yunquan Liu, Xiamen University, China	ctivity and good thermal
17:00-17:20	Title: Study of performance for various catalysts for the oxidation of c Sesha Talpa Sai, Indian Institute of Technology Madras, India	arbon monoxide reaction
17:20-17:40	Title: Fabrication of new types, environmentally-safe fire-protective extinguishing powders of raw materials Lali Gurchumelia, Tbilisi State University, Georgia	e covers based on fire-

Video Presentation

Title: A new catalyst for the conversion of aromatics to HC and CO-rich gas Nicolas Abatzoglou, Université de Sherbrooke, Canada

END OF DAY 1

Day 2 May 14, 2019 (Tuesday) @ Meeting Room 2

Moderator Rudolf Wessels, Avantium Chemicals, Netherlands

Keynote Presentations

09:00-09:40	Title: Green chemistry in processing of degradable and recycled polymers Leszek Moscicki, Lublin University of Life Sciences, Poland
09:40-10:20	Title: Interlayer dynamics of the active sites of transition metal sulfide-based catalysts and the mechanisms of hydrodesulfurization of oil fractions and synthesis gas conversion into higher alcohols and other oxygenates Victor Kogan, Russian Academy of Sciences, Russia

Oral Presentations

	Sessions on: Catalysis for Energy Catalysis for Renewable sources Chemical Kinetics and Catalytic Activity Petrochemical Engineering Catalysis and Zeolites Colloid and Surface aspects Catalytic Materials Applications of Catalysis and Green Chemistry in various fields
Session Chairs :	Leszek Moscicki, Lublin University of Life Sciences, Poland Helaja Tuulamari, Vice President at VTT, Finland

10:20- 10:40 Title: Adding value to biomass through catalytic transformation Helaja Tuulamari, Vice President at VTT, Finland

10:40- 11:00	Title: Development of Pt catalysts using graphene supports for polymer electrolyte fuel cells Jian Xie, Indiana University Purdue University Indianapolis, USA
11:00-11:20	Coffee Break @ Foyer
11:20-11:40	Title: Modelling thermokinetics using the Sestak-Berggren equation: A Calcium carbonate case study Rebecca Gibson, University of Birmingham, United Kingdom
11:40-12:00	Title: Thermal utilization of biochar in the process of steam gasification oriented on hydrogen rich gas generation Adam Smolinski, Central Mining Institute, Poland
12:00-12:20	Title: Clean biogas as a renewable economic source of syngas and hydrogen Angelo Vaccari, Università di Bologna, Italy
12:20-12:40	Title: Photocatalytic production of hydrogen from biomass or wastewaters using solar energy Alberto V. Puga, Instituto de Tecnología Química, Spain
12:40-13:00	Title: Key factors for the design of active iron-based oxygen evolution catalysts Toshihiro Takashima, University of Yamanashi, Japan
13:00-14:00	Lunch Break @ Hotel Restaurant
14:00-14:20	Title: Competitive reactions in hydrogenation of aqueous acetic acid by Flow-type reactor with ${\rm Ni\textsc{-}Sn/TiO}_2$ catalyst for bioethanol production Yuanyuan Zhao, Kyoto University, Japan
14:20-14:40	Title: Percolation and additional active centers as key factors for performance of highly productive Fischer-Tropsch synthesis catalysts Vladimir Z. Mordkovich, Technological Institute for Superhard and Novel Carbon Materials, Russia
14:40-15:00	Title: Scale-up of an integrated formic acid-to-power system Tim Wissink, TU Eindhoven, DENS, Netherlands
15:00-15:20	Title: Development of auto-thermal catalytic reforming of tars and hydrocarbon gases derived from pressurized fluidized-bed gasification of wood residues Ilkka Hiltunen, VTT Technical Research Centre of Finland Ltd, Finland
15:20-15:40	Title: Zeolites: Potential soil amendments for improving agriculture productivity Vijay Sandeep Jakkula, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India
15:40-16:00	Coffee Break @ Foyer
16:00-16:20	Title: Preparation of DNA crown cells (artificial cells) using eggs and sphingosine-DNA Shoshi Inooka, President of the Japan Academy of Applied Cell Biology, Japan
16:20-16:40	Title: Selective Palladium-catalyzed Synthesis of Diesters: Alkoxycarbonylation of a CO ₂ -butadiene derived lactone Muhammad Sharif, Kingdom of Saudi Arabia, Saudi Arabia

16:40-17:00	Title: The morphology and surface modification effect on the properties of OER Chuanbao Cao, Beijing Institute of Technology, China
17:00-17:20	Title: Valorization of household waste in hydroponics Hannachi Abdelhakim, University of Skikda, Algeria
17:20-17:40	Title: Preparation for magnetic photocatalysts composites in visible light photocatalytic degradation of sulphonamide wastewater Huanling Xie, Chongqing University of Technology, China

****End Note****

Poster Presentations (16:00- 17:00) @ Hallway area

ICGPP- 001	Titel: Oscillatory behavior in a cellular automaton based model of metal passivation Janusz Stafiej, Cardinal Stefan Wyszynski University, Poland
ICGPP- 002	Title: Photochemical and thermal reactivity of bipyridyl-functionalized hydrazones and their ON / OFF functionality Pavol Tisovský, Comenius University, Slovakia
ICGPP- 003	Title: Synthesis of Comb type fluorine containing siloxane polymers and solid polymer electrolyte membranes on their basis Tamar Tatrishvili, Ivane Javakhishvili Tbilisi State University, Georgia
ICGPP- 004	Title: Ruthenium based multimetallic nanoparticles: Probe the local structure Capucine Sassoye, Sorbonne Université, France
ICGPP- 005	Title: Development of technology for production of new types fire-extinguishing powders and foam-suspensions Lasha Tkemaladze, Tsulukidze Mining Institute, Georgia
ICGPP- 006	Title: Selective ionic flow cells (SIFC) an alternative to treat wastewater and reduce climate change Juan Jose Lozada Castro, Universidad de Nariño, Colombia
ICGPP- 007	Title: Integrated two stage processing of biomass conversion to HMF esters using ionic liquid as green solvent and catalyst: Synthesis of mono esters Komal Kumar, Indian Institute of Technology Delhi, India
ICGPP- 008	Title: Synthetic, Biological evaluation of Bis Tetrathiomolybdate compounds of Pt,Pd and Ni Ions V.K. Srivastava, Chemical Research Laboratory, India
ICGPP- 009	Title: New fluorine containing solid polymer electrolyte membranes Eliza Markarashvili, Ivane Javakhishvili Tbilisi State University, Georgia
ICGPP- 010	Title: Electrocatalytic enhancement of oxalic acid oxidation using platinum/carbon black- nickel-reduced graphene oxide on screen-printed carbon electrode Kamolwich Income, King Mongkut's University of Technology Thonburi, Thailand

ICG 2019

ICGPP- 011	Title: Synthesis and characterization of Tetranuclear Palladium complexes of abnormal N-heterocyclic carbene ligands and their catalytic application in C—C coupling Yong-Siang Su, National Changhua University of Education, Taiwan
ICGPP- 012	Title: Enantioselective [4 + 2]-annulation of oxadienes and allenones catalyzed by an amino acid derived phosphine: Synthesis of functionalized dihydropyrans Nisar Ullah, King Fahd University of Petroleum & Minerals, Saudi Arabia
ICGPP- 013	Title: Carbon nanodots for Mercury Ions Detection Benjawan Ninwong, King Mongkut's University of Technology Thonburi, Thailand
ICGPP- 014	Title: Synthesis, characterization and catalytic applications of Au@Pd heteroparticles Muhammad Nawaz Tahir, King Fahd University of Petroleum and Minerals, Saudi Arabia

E-Poster Presentations

ICGEP- 001	Title: The use of aerosol nanocatalysis technology is one of the new directions of industrial development Glikina M. Iryna, Volodymyr Dahl East-Ukrainian National University, Ukraine
ICGEP- 002	Title: Whole-cell bioconversion of naringenin using Yarrowia lipolytica 2.2ab in surface and liquid cultures Sergio Huerta-Ochoa, Universidad Autonoma Metropolitana Campus Iztapalapa, Mexico
ICGEP- 003	Title: Copper-benzotriazole based coordination polymer as catalyst towards the one-pot synthesis of N'-substituted-hydrazo-1,4-dihydropyridines Michael G. Kallitsakis, Aristotle University of Thessaloniki, Greece
ICGEP- 004	Title: Synthesis and features of formation of hydrated oxides at the nanoscale level Olga V. Artamonova, Voronezh state technical university, Russia
ICGEP- 005	Title: On thermodynamics & experimental evidences of the Kurdjumov and spillover effects in carbon nanostructures, under self-intercalation of high density hydrogen Yury S. Nechaev, Bardin Central Research Institute for Ferrous Metallurgy, Russia
ICGEP- 006	Title: Effect of doping on Physicochemical characteristics of lead titanate and of barium titanate Mrharrab Lamiae, Ibn Zohr University, Morocco
ICGEP- 007	Title: Synthesis of derivatives of 4-hydroxymethylisoindolinium chlorides and their intramolecular recyclization Chukhajian Emma H, The scientific technological centre of organic and pharmaceutical chemistry of national academy of sciences of the Republic of Armenia, Armenia
ICGEP- 008	Title: Loading metal phthalocyanine on modified graphene oxide for photocatalytic effect Melika Ghaeini, Guilan University, Iran
ICGEP- 009	Title: Deep sleep simulation Tetyana Vdovenkova, T.V.A, Canada
ICGEP- 010	Title: Novel study on the effect of TiO ₂ nanosol addition on properties of Iraqi engine oil Alwan Nsaif Jassim, Iraqi Ministry of Industry and Minerals, Iraq
ICGEP- 011	Title: Problems of the pollution in transboundary rivers basin of the aral sea and the ways of their solution Chembarisov E.I, Scientific Research Institute of Irrigation and Water Problems, Uzbekistan
ICGEP- 012	Title: Potential use of algae from red sea in bioremedation Suleiman Bifari, Jubail research and Innovation ClusterHUB, Saudi Arabia

****NOTES****

We wish to meet you again at our other Magnus Catalysis Events

Catalysis, Chemical Engineering and Technology

September 16-18, 2019 | London, UK www.catalysisevents.com Email: catalysis@magnus-group.org

Catalysis and Chemical Science

February 10-12, 2020 | Baltimore, USA www.catalysiscongress.com
Email: chemicalscience@magnusscigroup.com

Catalysis and Green Chemistry

May 18-19, 2020 | Osaka, Japan www.catalysis-conferences.com Email: greenchemistry@magnusmeetings.com



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