

4th Edition of
International Conference on

Catalysis and Green Chemistry


TENTATIVE
PROGRAM

ICG
2019

MAY 13-14, 2019
TOKYO, JAPAN

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

 @CatalysisEvent

 @ICG2019Conference
#ICG2019

<https://catalysis-conferences.com/>

Day 1 May 13, 2019 (Monday)

08:00-08:40 Registrations

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 **Title: 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

11:00-11:20 **Coffee Break**

Oral Presentations

Sessions on: Green Chemistry | Catalysis in Nanotechnology | Synthetic Chemistry Techniques | Chemical Engineering | Photochemistry and Electrochemistry

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**
Roosbeh 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, UK

12:20-12:40 **Title: Cellular automata based simulations for the autocatalytic mechanism in pitting corrosion**
Janusz Stafiej, Cardinal Stefan Wyszyński University, Poland

12:40-13:00 **Title: An efficient way of producing fuel hydrocarbon from CO₂ and activated water**
Tadayuki Imanaka, Ritsumeikan University, Japan

13:00-14:00 **Lunch Break**

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/Cu₂O both in O₂-rich and H₂-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 **Coffee Break**

16:00-16:20 **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

16:20-16:40 **Title: Palladium-Catalyzed β -C(sp³)-H Arylation of Weinreb amides via acidic ligands**

Guanghui An, Heilongjiang University, China

16:40-17:00 **Title: Role and significance of molybdenum disulfide (MoS₂) 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: 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)

Sessions on: Catalysts and Catalytic Processes | Catalytic Materials | Analytical Methodologies | Colloid and Surface aspects | Catalysis and Zeolites

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|-------------|---|
| 11:20-11:40 | <p>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</p> |
| 11:40-12:00 | <p>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</p> |
| 12:00-12:20 | <p>Title: Development of Pt catalysts using graphene supports for polymer electrolyte fuel cells
Jian Xie, Indiana University Purdue University Indianapolis, USA</p> |
| 12:20-12:40 | <p>Title: Description of mass transport through an asymmetric, bio-catalytic membrane reactors
Endre Nagy, University of Pannonia, Hungary</p> |
| 12:40-13:00 | <p>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</p> |
| 13:00-14:00 | <p>Lunch Break</p> |
| 14:00-14:20 | <p>Title: R&D of new catalysts for the water gas shift processes
Angelo Vaccari, Università di Bologna, Italy</p> |
| 14:20-14:40 | <p>Title: The morphology and surface modification effect on the properties of OER
Chuanbao Cao, Beijing Institute of Technology, China</p> |
| 14:40-15:00 | <p>Title: Zeolites: Potential soil amendments for improving agriculture productivity
Vijay Sandeep Jakkula, International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), India</p> |

Day 2 May 14, 2019 (Tuesday)

Keynote Presentations

09:00-09:40	Title: In situ exsolution of bimetallic Rh-Ni nanoalloys Hamid Arandiyani, University of Sydney, Australia
09:40-10:20	Title: Green chemistry in processing of degradable and recycled polymers Leszek Moscicki, Lublin University of Life Sciences, Poland
10:20-11:00	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
11:00-11:20	Coffee Break

Oral Presentations

Sessions on: Environmental Catalysis | Catalysis for Energy | Catalysis and Zeolites | Catalysis for Renewable sources | Chemical Kinetics and Catalytic Activity | Petrochemical Engineering

11:20-11:40	Title: Ru/TiO₂ CO₂ methanation catalysts: the decisive role of support crystallinity and stability Capucine Sassoie, Sorbonne Université, France
11:40-12:00	Title: Modelling thermokinetics using the Sestak-Berggren equation: A Calcium carbonate case study Rebecca Gibson, University of Birmingham, United Kingdom
12:00-12:20	Title: Thermal utilization of biochar in the process of steam gasification oriented on hydrogen rich gas generation Adam Smolinski, Central Mining Institute, Poland
12:20-12:40	Title: Efficient nano-regional photocatalytic heterostructure design via the manipulation of reaction site self-quenching effect Feng Han, Nanyang Technological University (NTU), Singapore
12:40-13:00	Title: Clean biogas as a renewable economic source of syngas and hydrogen Angelo Vaccari, Università di Bologna, Italy
13:00-14:00	Lunch Break
14:00-14:20	Fabrication of new types, environmentally-safe fire-protective covers based on fire-extinguishing powders of raw materials Lali Gurchumelia, Tbilisi State University, Georgia

14:20-14:40	Title: Photocatalytic production of hydrogen from biomass or wastewaters using solar energy Alberto V. Puga, Instituto de Tecnología Química, Spain
14:40-15:00	Title: Study of performance for various catalysts for the oxidation of carbon monoxide reaction Sesha Talpa Sai, Indian Institute of Technology Madras, India
15:00-15:20	Title: Beneficial effect of glycols on the activity of NiMoP/Al₂O₃ hydrotreating catalysts Evgeniya N. Vlasova, Novosibirsk National Research University, Russia
15:20-15:40	Title: C_xCe_{1-x}O₂ nanoflake type catalysts with improved catalytic activity and good thermal stability for diesel soot combustion Yunquan Liu, Xiamen University, China
15:40-16:00	Coffee Break
16:00-16:20	Title: Competitive reactions in hydrogenation of aqueous acetic acid by Flow-type reactor with Ni-Sn/TiO₂ catalyst for bioethanol production Yuanyuan Zhao, Kyoto University, Japan
16:20-16:40	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
16:40-17:00	Title: The most eco-friendly precious metal mining & e-waste processing in the world Gordon Yu, Taiwan Hsinchu Green Industry Association, Taiwan

Poster Presentations

ICG - 001	Title: Oscillatory behavior in a cellular automaton based model of metal passivation Janusz Stafiej, Cardinal Stefan Wyszyński University, Poland
ICG - 002	Title: Photochemical and thermal reactivity of bipyridyl-functionalized hydrazones and their ON / OFF functionality Pavol Tisovský, Comenius University, Slovakia
ICG - 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

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- ICG - 004 **Title: Ruthenium based multimetallic nanoparticles: Probe the local structure**
Capucine Sassoze, Sorbonne Université, France
- ICG - 005 **Title: Development of technology for production of new types fire-extinguishing powders and foam-suspensions**
Lasha Tkemaladze, Tsulukidze Mining Institute, Georgia
- ICG - 006 **Selective ionic flow cells (SIFC) an alternative to treat wastewater and reduce climate change**
Juan Jose Lozada Castro, Universidad de Nariño, Colombia
- ICG - 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
- ICG - 008 **Title: Synthetic, Biological evaluation of Bis Tetrathiomolybdate compounds of Pt,Pd and Ni Ions**
V.K. Srivastava, Chemical Research Laboratory, India
- ICG - 009 **Title: New fluorine containing solid polymer electrolyte membranes**
Eliza Markarashvili, Ivane Javakhishvili Tbilisi State University, Georgia

END NOTE

PS: Talk timings may be subjected to change without any prior intimation.



We wish to meet you @ ICG - 2019
during May 13-14, 2019 in Tokyo, Japan

Questions? Contact +1 (702) 988-2320 or Inquires: catalysis@magnusmeetings.com

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