

3rd Edition of International Congress on

CATALYSIS AND CHEMICAL SCIENCE

PROGRAM

MARCH 11-13, 2019 SINGAPORE

CATALYSIS 2019

Theme: Accentuate innovations and emerging novel research in Catalysis and Chemical Science



Exhibitors



- **f** Facebook: @Catalysis2019Congress
- Twitter: @CatalysisEvent

VILLAGE HOTEL CHANGI, 1 NETHERAVON ROAD SINGAPORE 508502



Day 1 March 11, 2019 (Monday) @ Sphere 2&3

09:00-09:40 Registration

Moderator Nazrizawati Ahmad Tajuddin, Universiti Teknologi MARA, Malaysia

09:40-10:00 Introduction

Keynote Presentations

Title: Design of Ta- and Nb-single site zeolite catalysts for production of 1,3-butadiene from 10:00-10:40

renewable sources
Stanislaw Dzwigaj, Sorbonne-Université-CNRS, Laboratoire de Réactivité de Surface, France

Kazuaki Ishihara, Nagoya University, Japan

11:20-11:30 Exhibitor show case

Title: Fast hydrothermal synthesis of nanocrystalline Cs-Aluminosilicate zeolites catalysts free of organic template
Eng-Poh Ng, Universiti Sains Malaysia, Malaysia

Oral Presentations

Session on: Advanced synthesis, Catalytic systems and new catalysts designing | Chemical Synthesis and Catalysts Synthesis | Heterogeneous Catalysis | Catalysis and Applications | Catalysis in Nanotechnology | Electrochemistry, Electrolysis and Corrosion | Spectroscopy and Chromatography in Catalysis

Session Stanislaw Dzwigaj, Sorbonne-Université-CNRS, Laboratoire de Réactivité de Surface, France Chairs: Eng-Poh Ng, Universiti Sains Malaysia

Title: Synthesis of chiral isoindolinones from chiral (E)-N-(hex-3-en-5-yn-2-yl) propiolamides via a novel Gold-Catalyzed cycloisomerization reaction pathway

Stephen Pyne, University of Wollongong, Australia

Title: Magnetic field assisted electrochemical synthesis of Co-Ru Nanorods for water splitting 12:50-13:10 reaction

Piotr Zabinski, AGH University of Science and Technology, Poland

GROUP PHOTO

13:10-14:10 Lunch Break

@ Oval

14:10-14:30	Title: H Species reactivity in hydrogen spillover effect Mohammed Bettahar, Lorraine University, France	
14:30-14:50	Title: Metathesis of functionalized alkanes towards the solution to the unsolved problem Mykyta Tretiakov, King Abdullah University of Science and Technology (KAUST), Saudi Arabia	
14:50-15:10	Title: Taking inspiration from molecular chemistry in nanochemistry to tune the properties of metal nanoparticles in catalysis Karine Philippot, CNRS, France	of
15:10-15:30	Title: Chloroform conversion into hydrocarbons by hydrodechlorination with Pd supported on activated carbons obtained by chemical activation of lignin Jorge Bedia, Universidad Autónoma de Madrid, Spain	
15:30-15:50	Title: Synchrotron X-ray spectroscopies for catalysis Renfei Feng, Canadian Light Source, Canada	
15:50-16:10	Coffee Break @ Oval 3	
16:10-16:30	Title: Alkali-Free NiAl hydrothermally reconstructed layer double hydroxide Nazrizawati Ahmad Tajuddin, Universiti Teknologi MARA, Malaysia	
16:30-16:50	Title: Electrochemical synthesis of cobalt-selenium coatings as a catalysts for hydrogen evolution Remigiusz Kowalik, AGH University of Science and Technology, Poland	
16:50-17:10	Title: Non-hydrolytic sol-gel synthesis of oxide and mixed oxide catalytic materials P. Hubert Mutin, CNRS- ICGM, France	
17:10-17:30	Title: Boron nitride nano materials based heterogeneous catalyst as an efficient and highly biological active synthesis of methyl piperazinyl-quinolinyl fused Benzo[c]acridinone derivatives Arul Murugesan, Durban University of Technology, South Africa	
17:30-17:50	Title: Influence of oxygen containing functional groups on the deposition of Pd on the activated carbon surface as catalyst carrier Marek Wojnicki, AGH University of Science and Technology, Poland	
17:50-18:10	Title: Oxyhydride perovskites: From characterization to reactivity study Quang Nguyen Tran, École Nationale Supérieure de Chimie de Montpellier, France	
18:10-18:30	Title: Stability behaviour of Ce promoted Ni catalysts supported on modified ZrO ₂ with La ₂ O ₃ PO ₄ & WO ₃ , for dry reforming of methane Ahmed Sadeq Al-Fatesh, King Saud University, Kingdom of Saudi Arabia	3'
18:30-18:50	Title: Green synthesis of Ni _{0.5} Zn _{0.5} AlFeO ₄ magnetic nanoparticles by tragacanth gel and its application as a photocatalyst for degradation of reactive blue 21 dye	

Day 2 March 12, 2019 (Tuesday) @ Sphere 2&3

Moderator Sandhya Mishra, Indian Institute of Technology Patna, India

Keynote Presentations

11:20-11:40	Coffee Break	@ Oval 3
10:40-11:20	Title: Borametallomimetics – Activation of small molecule Holger Braunschweig, Julius-Maximilians-Universität Wür	,
10:00-10:40	Title: Heterostructures for emerging pollutants degradation Carolina Belver, Autonoma University of Madrid, Spain	under sunlight irradiation

Oral Presentations

Session on: Catalysis for Energy | Photochemistry, Photocatalysis and Photoreactors | Enzyme and Microbial Technology | Environmental Catalysis and Green Chemistry | Organometallics and Organocatalysis | Fluid Mechanics | Micro-emulsion Catalysis and Catalytic Cracking | Recent Trends in Catalysis | Catalysis for Biorefineries | Catalysis and Zeolites

Carolina Belver, Autonoma University of Madrid, Spain Maya Kiskinova, Elettra-Sincrotrone Trieste, Italy

Session Chairs: Title: Recent development of Ni based composite as electrocatalysts for proton exchange 11:40-12:00 membrane fuel cells Florea Mihaela, University of Bucharest, National Institute of Materials Physics, Romania Title: Hydrogen generation in microgravity environments using nanostructured 12:00-12:20 photoelectrodes Ömer Akay, Freie Universität Berlin, Germany Title: Microscopic insights on fabrication and properties of catalysts using synchrotron-based 12:20-12:40 methods Maya Kiskinova, Elettra-Sincrotrone Trieste, Italy Title: Electrocatalytic materials for fuel oxidation and oxygen reduction reactions 12:40-13:00 Virginija Kepeniene, Center for Physical Sciences and Technology, Lithuania Title: Design and optimization for environmental application of TiO2 photocatalysts 13:00-13:20 Tsuyoshi Ochiai, Kanagawa Institute of industrial Science and Technology (KISTEC), Japan 13:20-14:20 **Lunch Break** @ Oval

13:00-13:20

Title: Design and optimization for environmental application of TiO2 photocatalyst Tsuyoshi Ochiai, Kanagawa Institute of industrial Science and Technology (KISTEC).

13:20-14:20

Lunch Break

@ Oval

14:20-14:40

Title: Atomically dispersed catalysts for Energy-related Catalysis Xiaoqian Wang, University of Science and Technology of China, China

Title: State-of-the-art Anion exchange membrane fuel cells Dario R. Dekel, Technion – Israel Institute of Technology, Israel

15:00-15:20	Title: Carbon-encapsulated Cu@GO catalysts and its application in ethylene carbonate hydrogenation Chanjuan Zhang, Institute of Process Engineering, Chinese Academy of Sciences, China			
15:20-15:40	Title: Mechanistic study of Olefin/CO ₂ coupling to form Acrylic acid: A DFT Study Farhan Ahmad Pasha, CRD-SABIC, King Abdullah University of Science and Technology, Saudi Arabia			
15:40-16:00	Title: HPA modified clays: A remarkable green catalysts in organic synthesis Chandra Mohan, K. R. Mangalam University, Gurugram, India			
16:00-16:20	Coffee Break @ Oval 3			
16:20-16:40	Title: Green catalysis application of some new Metal—organic frameworks Ali Morsali, Tarbiat Modares University, Iran			
16:40-17:00	Title: Microwave catalysis by nano-ferrites Sandhya Mishra, Indian Institute of Technology Patna, India			
17:00-17:20	Title: On the structural changes of zeolite Y upon Interaction with Alumina Binder Ubong Jerome Etim, China University of Petroleum, East China			
17:20-17:40	Title: From sand to sky: The story of the first Etihad passenger flight using Biojet fuel 100% produced and refined in the UAE Paco Laveille, ADNOC Refining Research Center Division, United Arab Emirates			
17:40-18:00	Title: On the catalytic mechanisms of Snake venom thrombin-like enzymes Anwar Ullah, Department of Biosciences COMSATS University Islamabad, Pakistan			
18:00-18:20	Title: Effects of partial amorphization of TiO ₂ photocatalyst Heechae Choi, University of Cologne, Germany			
18:20-18:40	Title: Synthesis Na-[Al]-BEA (Beta) Zeolite by Dry-Gel conversiona (DCG) and hydrothermal (HTS) Methods: Effect of silica alumina ratio, synthesis times and synthesis methods Pusparatu, Energy and Mineral Polytechnic (PEM Akamigas), Indonesia			
VIDEO PRESENTATION				
18:40-19:00	Title: A new approach to modeling and simulation the catalytic processes in column apparatuses Christo Boyadjiev, Bulgarian Academy of Sciences, Bulgaria			
Poster Presentations (17:30-18:30) @ Square Foyer				
Poster Judge:	Holger Braunschweig, Julius-Maximilians-Universität Würzburg, Germany			
P1	Title: Pt/Al ₂ O ₃ as NOx reduction catalyst- laboratory test results versus activity in low-power boiler fueled with biomass Pstrowska Katarzyna, Wroclaw University of Technology, Poland			
P2	Title: The Effect of substituents bonded to silicon on the efficiency of the hydrosilylation of polybutadiene Rafał Januszewski, Adam Mickiewicz University in Poznan, Poland			

Р3	Title: Catalytic reactions as a tool for modification of polysiloxanes with silsesquioxanes Katarzyna Mituła, Adam Mickiewicz University in Poznan, Poland
P4	Title: Europium-doped CH ₃ NH ₃ Pb _{1-x} Eu _x I ₃ for perovskite based solar cell application Florea Mihaela, University of Bucharest, National Institute of Materials Physics, Romania
P5	Title: Investigation of mechanism on electrolytic Ozone generation using Pt/Ti electrode prepared by the multiple electrostrike method Mio Hayashi, Kanagawa Institute of industrial Science and Technology (KISTEC), Japan
P6	Title: Catalytic materials of cobalt alloys for hydrogen generation Zita Sukackiene, Center for Physical Sciences and Technology, Lithuania
P7	Title: Using X-ray absorption spectroscopy (XAS) to probe single atom catalysts in carbon nanotubes Bernt Johannessen, ANSTO, Australia
P8	Title: Continuous-flow asymmetric hydrogenation of diethyl itaconate by supported Ru-BINAP catalysts Akiko Murakami, Department of Chemistry, Kyushu University, Japan
P9	Title: Multifunctional silsesquioxane derivatives- synthesis and characterization Kinga Stefanowska, Adam Mickiewicz University in Poznan, Poland
P10	Title: Metallic nanoparticles supported onto TiO ₂ nanotubes as catalysts for selective hydrogenation of nitroarenes Shanmugaraj Krishnamoorthy, Universidad de Concepción, Chile

Networking

****END NOTE****

Day 3 March 13, 2019 (Wednesday)

Extended Networking

11:00-11:20 Coffee @ Square Foyer

13:00-14:00 Lunch @ Oval

15:20-15:40 Coffee @ Square Foyer

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

Catalysis and Green Chemistry

May 13-14, 2019, Tokyo, Japan https://catalyis-conferences.com/
Email: greenchemistry@magnusmeetings.com

Catalysis, Chemical Engineering and Technology

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

Catalysis and Chemical Science

February 24-26, 2020 | Baltimore, USA https://catalysiscongress.com
Email: chemicalscience@magnusscigroup.com



Questions? Contact

+1 (702) 988-2320 or

Email: catalysis-2019@magnus-group.org

More Information:

Please visit: https://catalysiscongress.com/