



2nd Edition of Global Conference on

CATALYSIS, CHEMICAL ENGINEERING AND TECHNOLOGY



TENTATIVE
Program

CAT
2018

ACCENTUATE INNOVATIONS AND
EMERGING NOVEL RESEARCH IN
CATALYSIS AND CHEMICAL ENGINEERING

SEPTEMBER 13-15, 2018
ROME, ITALY

Tentative Program

Keynote Presentations

Title: Functionalization of porous materials for application in environmental catalysis for protection of environment

Stanislaw Dzwigaj, Sorbonne Universités, France

Title: Ménage-à-Trois: Single-atom catalysis, Mass Spectrometry and Computational chemistry

Helmut Schwarz, Technische Universität Berlin, Germany

Title: Fully integrated biotransformations in a microreactor

Bruno Zelić, University of Zagreb, Croatia

Title: Process design: Un-biased selection and use of catalysis options (chemo-, bio-, photo-) from start to finish (technology platform development to product coming from industrial plant)

Q.B. Broxterman, InnoSyn B V, The Netherlands

Title: Kinetics in heterogeneous catalysis for DeNOx reactions: How to relate catalytic to surface properties

Pascal Granger, University of Lille, France

Title: Novel Perovskite catalysts for solid oxide fuel cells and water splitting

Zhonghua (John) Zhu, The University of Queensland, Australia

Title: Composite Pd-based membranes for hydrogen production and purification

Angelo Basile, Institute on Membrane Technology of the Italian National Research Council, Italy

Title: Electroenzymatic catalysis for electrical energy production

Serge Cosnier, Grenoble Alpes University, France

Title: Elucidation of Organic Host-Guest chemistry in Zeolitic catalysis

Edman Tsang, University of Oxford, United Kingdom

Title: Applications of Chemical Engineering Thermodynamics in the Petroleum industry: Developments in Hydrocarbon characterization, production and processing with some examples

M. R. Riazi, Kuwait University, Kuwait

Title: ZnO based photocatalysts for enhanced urban air purification

Luis Sanchez Granados, Universidad de Cordoba, Spain

Title: Tuning zeolitic parameters for the trapping and elimination of pollutants and toxic gases - application in automotive cold-start and nuclear safety

Bruno Azambre, University of Lorraine, France

Title: Application of catalytic technologies for production of renewable transportation fuels from vegetable oils, fermentation broth and CO₂

Miron Victor Landau, Ben-Gurion University of the Negev, Israel

Title: Modified Mahoney-Robinson reactor using a static catalytic foam characterization and catalytic applications

Valérie Meille, University of Lyon, France

Title: Biocatalysis alternatives dedicated to flavors and fragrances production

Madalina Tudorache, University of Bucharest, Romania

Title: Valorization of chloromethane wastes to valuable hydrocarbons by hydrodechlorination with supported metal nanoparticles catalysts

Luisa María Gómez Sainero, Universidad Autónoma de Madrid, Spain

Title: Catalysis for biomass conversion to traffic fuel compounds

Juha Lehtonen, VTT Technical Research Centre of Finland Ltd, Finland

Title: Fluorous ponytails in catalysis

Jan Cermak, Institute of Chemical Process Fundamentals of the CAS, v.v.i., Czech Republic

Title: Applications of visible light-driven photocatalysts to photocatalytic degradation and PEC water splitting

Byeong-Kyu Lee, University of Ulsan, Republic of Korea

Title: High Oxygen reduction reaction performances of Cathode materials combining Polyoxometalates, Coordination complexes and Carbonaceous supports

Guangjin Zhang, Chinese Academy of Sciences, China

Title: A new approach for modeling catalytic processes in column apparatuses

Christo Boyanov Boyadjiev, Bulgarian Academy of Sciences, Bulgaria

Oral Presentations

Title: Ni/Co-based nanocrystalline catalysts for hydrogen production from CO₂ reforming of methane : Effect of toluene addition

Moisés R. Cesario, Université du Littoral Cote d'Opale, France

Title: Oscillatory heat evolution in the Pd/H system

Erwin Lalik, Polish Academy of Sciences, Poland

Title: Plasma modification of α -Fe₂O₃ supported nanomaterials for photocatalytic and photoelectrochemical applications

Alberto Gasparotto, Padova University, Italy

Title: Catalytic routes to Vitamin A Acetate

Jan Schütz, DSM Nutritional Products, Switzerland

Title: Ozonation in a Multi-Orifice oscillatory baffled column

Marco Paulo Gomes Sousa Lucas, Universidade de Trás-os-Montes e Alto Douro, Portugal

Title: Nanoparticle beam deposition: A novel route to the creation of Heterogeneous catalysts

Richard E. Palmer, Swansea University, UK

Title: EXAFS and XANES techniques for studying the type of defects in Ti-zeolites and their role in catalysis

Luca Braglia, CNR-IOM, TASC Laboratory, Italy

Title: Insights on reactivity patterns of Hydrogen abstraction in Oxide systems

Dandamudi Usharani, CSIR-Central Food Technological Research Institute, India

Title: Transition metal sulfide catalysts for hydrodesulfurization of oil fractions and syngas conversion into oxygenates and the methods for their intentional control

Victor M. Kogan, Zelinsky Institute of Organic Chemistry, Russia

Title: Interfacial novel phenomena on Heterogeneous Photocatalysis

Hideyuki Okumura, Kyoto University, Japan

Title: How to make a Innovative structure in the Engineering

Mohammad Israr, Durgapur College of Engineering and Technology, India

Title: Environmental pollution due to the operation of gasoline engines: Exhaust gas law

Koffi Sagna, University of Lomé, Togo

Title: Microfluidic devices for biodiesel synthesis

Harrison Silva Santana, University of Campinas, Brazil

Title: Catalytic MnO₂-Pt Nanohybrid for CO Oxidation: Insights into the crystallographic and microstructural aspects

Noopur Jain, Indian Institute of Science, India

Title: Molecularly imprinted polymers electrochemical sensors: Form Macro to Micro molecules detection

Rasha Mohamed El Nashar, Cairo University, Egypt

Title: Reaction pathways of methanol oxidation over a supported bimetallic catalyst

Luter Leke, Benue State University, Nigeria

Title: Dip-remove, stir-remove type of reusable polyaniline based solid acid catalyst for organic transformation

Palaiappan Srinivasan, Indian Institute of Chemical Technology, India

Title: Synthesis of Co-Mn-Fe/ γ -Al₂O₃ catalyst for Light Olefins Production

Flor Shayegh, RIPI, National Iranian Oil Company, Iran

Title: Biodiesel production from edible oil wastewater sludge with Bioethanol using Nano-Magnetic catalysis

Wighens Ngoie Ilunga, Cape Peninsula University of Technology, South Africa

Title: Investigation of Zr-promoted Cobalt based Fischer–Tropsch catalyst at high Syngas Conversion

Yahya Zamani, RIPI, National Iranian Oil Company, Iran

Title: A naphthalimide-palladium based fluorescence probe for the selective detection and monitoring of carbon monoxide in breast cancer cells

Tikum Florence Anjong, Ewha Womans University, South Korea

Title: Photosensitizing of TiO₂ nanoparticles for visible light irradiation

Zohreh Mesgari, Bu-Ali Sina University, Iran

Title: Solar energy harvesting by Magnetic-Nanophotocatalyst in water treatment technology

Tahereh Rohani Bastami, Quchan University of Technology, Iran

Poster Presentations

Title: Performance of high carbon-resistant and stable calcium carbonate-calcium aluminate supported nickel catalyst in the high quality syngas production by CO₂ reforming of CH₄

Silvera Scaccia, Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy

Title: Study of the hydrogen addition influence on the hydrogenolysis of glycerol catalyzed by Ni-exchanged zeolites

Clara Ángela Jarauta-Córdoba, Universidad de Zaragoza, Spain

Title: DFT Study of screening SCR catalyst constituent materials supported on Titania

Jiwon Roh, KITECH, Republic of Korea

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Conference Dates: September 13-15, 2018

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

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