



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 Boyadziev, 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: Insights on Reactivity patterns of Hydrogen abstraction in Oxide systems

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

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

Flor Shayegh, RIPI, National Iranian Oil Company, Iran

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

Noopur Jain, Indian Institute of Science, India

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: Molecularly imprinted Polymers electrochemical sensors: Form macro to micro molecules detection

Rasha Mohamed El Nashar, Cairo University, Egypt

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: 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: Photosensitizing of TiO₂ nanoparticles for visible light irradiation

Zohreh Mesgari, Bu-Ali Sina University, 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



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