

Global Congress on

ADVANCEMENTS IN CATALYSIS AND CHEMICAL ENGINEERING PROCESS

DECEMBER 05-06, 2018 | MADRID, SPAIN



CATALYSIS 2018

Pulsus Group

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Scientific Program

Registrations

09:00-09:30

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Opening Ceremony

09:30-09:55

Day 1 Dec 05, 2018

Hall

Keynote Forum

Introduction 09:55-10:00

10:00-10:40 **Title: Nuclear spin catalysis in biomolecular nanoreactors: Premises and promises**
Vitaly K Koltover, Institute of Problems of Chemical Physics, Russia

10:40-11:20 **Title: Polymer Encapsulation of Radioactive Waste in Nuclear Industry**
Ahmet E. Osmanlioglu, Istanbul University, Turkey

Refreshments and Networking Break 11:20-11:40

11:40-12:20 **Title : In situ Photocatalysis of Emerging Contaminants in Groundwater Using Air-Clad Optical Fibres**
John L. Zhou, University of Technology Sydney, Australia

Session: Chemical Engineering | Advanced Catalytic systems | Chemical Polymer Technology | Catalysis & nanotechnology | Biofuels in Chemical Engineering | Homogeneous and Molecular Catalysis | Biofuels in Chemical Engineering | Catalysis for Renewable Chemicals

Session Chair: Vitaly K Koltover, Institute of Problems of Chemical Physics, Russia

Co Chair: Hany A. Elazab, British University in Egypt , Egypt"

12:20-12:50 **Title: From polymer solution to porous membrane – controlling the membrane morphology using a modeling approach**
Denis Bouyer, European Institute of Membranes, France

Lunch Break 12:50-13:50

13:50-14:20 **Title: Micro Reactor Technology: Flow Chemistry Impact on Applied Catalysis**
Hany A. Elazab, British University in Egypt , Egypt

14:20-14:50 **Title: Biofuels Recovery from Natural Resources Using Instant Controlled Pressure Drop (DIC) Process**
Ibtisam kamal, Soran University, Iraq

14:50-15:20 **Title: In silico design of nanomaterials for environmental and catalytic applications**
Michaël Badawi, University of Lorraine, France

Refreshments and Networking Break 15:20-15:40

15:40-16:10 **Title: Study The Operating Variables Of Reactive Distillation By HYSYS Software**
Khaled M. Elmarimi, National Oil Corporation , Libya

Young Research Forum

- 16:10-16:40** **Title: Catalyst's eco-design from natural clay: Modified-Clay efficient catalyst for the synthesis of α,β -unsaturated carbonyl compounds**
Hanae Ouaddari, University of Hassan II, Casablanca, Morocco
- 16:45-17:30** **Title: Innovative Technology Combination (Integrated Cyclone-Packed Technology & Combustion Management and Monitoring System) for Emission Reduction and Efficiency Increasing in Small-Scaled Biomass Combustion Systems**
Souha Meriee & Niro Akbary, Fraunhofer Institute for Building Physics IBP, Germany
- 17:30-18:00** **Title: Design of Electrocatalysts for Solid Oxide Fuel Cell Application: A Mechanistic Approach**
Uzma Anjum, Indian Institute of Technology, India

Day Concludes

Day 2 Dec 06, 2018

Hall

Keynote Forum

Introduction 09:55-10:00

- 09:30-10:10** **Title: Chemistry of Phosphinidene complexes - Synthesis of Novel Organophosphorous Compounds**
Arif Ali Khan, Guru Gobind Singh Indraprastha University, INDIA
- 10:10-10:50** **Title: Hydrodearomatization of model monoaromatics over Ni/Al₂O₃: Theoretical and experimental approaches**
Sylvette brunet, IC2MP, France

Refreshments and Networking Break 10:50-11:10

- 11:10-11:50** **Title: Topological forms of future of structural chemistry of new substances and materials**
Vladimir Ya.Shevchenko, Institute of Silicate Chemistry RAS, Russia
- 11:50-12:30** **Title: Aliphatic Nitrocompounds and Heterogeneous Catalysis: a Winning Combination for the Formation of C,C Bonds Under Sustainable Conditions**
Roberto Ballini, Dean & Professor, University of Camerino, Italy

Lunch Break 12:30-13:30

Session: Organic Chemistry | Biochemical Engineering | Cancer Management & Prevention | Catalytic Reactions Engineering | Catalysis for Renewable Chemicals | Chemical Engineering | Advanced Catalytic systems | Chemical Polymer Technology | Catalysis & nanotechnology

Session Chair: Arif Ali Khan, Guru Gobind Singh Indraprastha University, INDIA

Co Chair: Vladimir Ya.Shevchenko, Institute of Silicate Chemistry RAS, Russia

- 13:30-14:00** **Title: Advances in Fluid Structure Interaction Methodologies for Evaluating Cardiovascular Disorders**
Amit Koikkarah Aji, Max Planck Institute for Colloids and Interfaces, Germany
- 14:00-14:30** **Title: Synthesis and characterization of Pt/Zn-ZSM5 nanocatalysts for xylene Isomerization Reaction**
Milad Rasouli, University of Sistan and Baluchestan, Iran
- 14:30-15:00** **Title: Sustainable development of bioenergy from agriculture residues and environment**
Abdeen Mustafa Omer, Energy Research Institute (ERI), UK

15:20-15:50 **Title: MCsn⁺ molecular ion - SIMS for direct chemical analysis of nanostructures without calibration standards**

Purushottam Chakraborty, Saha Institute of Nuclear Physics, India

Young Research Forum

15:50-16:20 **Title: Electrically self-healing thermoset nanocomposites**

Rodrigo Araya-Hermosilla, Metropolitan University of Technology, Chile

16:20-16:50 **Title: Rational Design of Terrace, Step and Corner Sites of the Metal or Bimetallic Catalysts for Hydrogenation and Hydrodeoxygenation of Biomass-Derived Platform Molecules**

Shelaka Gupta, Indian Institute of Technology, India

B2B Meetings & Panel Discussions

Award and Closing Ceremony

