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Scientific Program

Global Congress on

Advancements in Catalysis and Chemical Engineering Process

December 05-06, 2018 | Madrid, Spain



CATALYSIS 2018

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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

Conference 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
Ttile: 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 environnemental 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

Conference 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

Refreshments and Networking Break 15:00-15:20

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

