CATALYSIS 2023

17TH EDITION OF INTERNATIONAL CONFERENCE ON

CATALYSIS, CHEMICAL ENGINEERING AND TECHNOLOGY

26-28 OCTOBER 2023

BOSTON, USA

Scientific TOPICS

- Catalysis and Zeolites
- Chemical Kinetics and Catalytic Activity
- Electrochemistry, Electrolysis and Corrosion
- Organometallics, Organocatalysis and Bioinorganic Chemistry
- Polymer Science and Technology
- Advanced Synthesis, Catalytic Systems and New Catalyst Designing
- Photochemistry, Photocatalysis and Photoreactors
- Industrial Catalysis and Process Engineering
- Computational Catalysis and Enantioselective Catalysis
- Integrated Catalysis
- Catalysis and Applications
- Catalysis for Biorefineries
- Catalysis in Nanotechnology
- Reticular Chemistry

Our OCMs

HAIBO GE
Texas Tech University, United States

STANISLAW DZWIGAJ
Sorbonne-Universite-CNRS, France

OSMAN ADIGUZEL
Firat University, Turkey

GLAUCIO DIRE
Center of the West Zone State University, Brazil

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Keynote Presentations

Haibo Ge Texas Tech University, United States	Title: Distal functionalization via transition metal catalysis
Arthur J Nozik University of Colorado, United States	Title: Advanced concepts for ultra- high conversion efficiency of solar photons into photovoltaics and solar fuels based on quantization effects in nanostructures and molecular singlet fission
Tianxing Cai Lamar University, United States	Title: Advancements in catalyst modeling and simulation
Stanislaw Dzwigaj Sorbonne-Universite-CNRS, France	Title: Application of metal single-site zeolite catalysts in catalysis
Dai Yeun Jeong Asia Climate Change Education Center, Korea Republic of	Title: United Nations' strategy responding to climate change
Osman Adiguzel Firat University, Turkey	Title: Thermal and mechanical processes and reactions in reversible behavior of shape memory alloys
Sergey Suchkov Institute for Biotech & Global Health of Rosbiotech and A.I. Evdokimov MGMSU, Russia	Title: Antibody-Proteases as translational tools of the next-step generation to be applied through bio design-driven translational biotech in personalized and precision neurology practice

Oral Presentations

Shutang Chen Honda Research Institute USA Inc, United States	Title: fcc/2H and fcc/4H copper nanodisks for carbon dioxide reduction
Yingchun Li Prairie View A&M University, United States	Title: Photocatalysis for organic transformations under visible light
M V Ramana Murthy Osmania University, United States	Title: Thermal radiation and chemical reaction effects on magneto hydrodynamics kasson fluid past a permeable stretching sheet in a porous medium
Arsam Aryandoust Massachusetts Institute of Technology, Switzerland	Title: AI in catalyst discovery for tackling climate change
Stefan Muller Evonik Operations GmbH & Co. KG, Germany	Title: Synthesis, reactivity and stability investigation of new ligands for the alkoxycarbonylation
Mohammadreza Akbari University of Tehran, Germany	Title: Chemical Reaction in the Catalyst Bed Reactor Design Heterogeneous Reaction

Shawn Reeves University of Waterloo, Canada	Title: Engineering stable, expressible, functional industrial enzymes with protein sequence likelihood models
Yira Hurtado University of Sherbrooke, Canada	Title: Biofuels production using iron foam as structured catalyst in fischer-tropsch synthesis
BEN TAYEB Karima LASIRE UMR CNRS 8516, France	Title: Sulfur vulcanization mechanism and ageing process: In situ EPR investigation
Bernardo Patella University of Palermo, Italy	Title: Reduction of graphene oxide supported on paper by CO2 laser and its application as electrochemical sensing of phosphate ions
Salvatore Geraci Università degli Studi di Palermo, Italy	Title: Performance of nickel-iron nanostructured electrodes at different temperatures
Roberto Luigi Oliveri University of Palermo, Italy	Title: Performance of nanostructured Ni alloy electrodes for hydrogen and oxygen evolution reaction in water-alkaline electrolyzer
Victor Cerda Sciware Systems, Spain	Title: Analytical kinetic thermometric methods. A review
Omvir Singh Kyushu Univeristy, Japan	Title: Production of aromatic hydrocarbons from long chain unsaturated used cooking oil over a hierarchical imidazole supported zeolite
KilYong Choi Public Health, Korea, Republic of	Title: Air pollution and respiratory disease risks in residential areas near smelters in korea: A retrospective cohort study using national health information database.
Orlando Elguera National University of Engineering, Peru	Title: Review of research topics for scaling-up of sonochemical reactors (sono-reactors)
Monalisa Garai Johannes Kepler University, Austria	Title: Effect of coulomb blockade on catalytic electron transfer in small Au nanoparticles
Md Nurul Islam Siddique University Malaysia Terengganu, Malaysia	Title: Role of supplemented nutrients and intermediate temperature on bio-methane generation from anaerobic digestion of agricultural waste: Feasibility & fertilizer recovery
Jessica R. P. Oliveira Federal Technological University of Paraná, Brazil	Title: Valorization of the plant extracts in the synthesis of magnetic nanocatalysts
Fang Zheng Petrochemical Research Institute of PetroChina Company Limited, China	Title: On-line access to the running state of reforming catalyst based on molecular management
Xinyue Zhang PetroChina Company Limited, China	Title: Formation of Fe(III)-S and electron-deficient effect iron-based catalysts and its promotion for DBT hydrodesulfurization
Guanghui An Heilongjiang University, China	Title: Development of catalysis pathways in remote C-H activation

Xingmao Jiang Wuhan Institute of Technology, china	Title: Advanced catalysts derived from deep eutectic sugar-urea-salt systems
Kashan Bashir Tsinghua University, China	Title: Production of biomass-Derived 2,5-Furandicarboxylic acid alternative to terephthalic acid over Non-precious catalyst
Bo Li Nankai University, China	Title: Encapsulating copper-based nanostructures into metal-organic frameworks for CO2 conversion
Angyang Yu Heilongjiang Vocational College of Biology Science and Technology, China	Title: A preliminary theoretical investigation of oxidized Rhenium(Vll) complexes
Suresh C Ameta Paher University, India	Title: Photocatalysis an Eco-friendly technology
Ashanendu Mandal University of Calcutta, India	Title: Removal of phenol from wastewater using biological and industrial wastes as adsorbents
Siyu Zhang Tsinghua University, China	Title: The influence mechanism of sludge flocs in secondary effluent on the catalytic ozonation
Bin Zhao Tsinghua University, China	Title: Highly efficient electro-catalysis decomposition of ammonia to N2 tandem simultaneous generation of ·ClO by a Ru@ PbO2 membrane
S Girish Kumar R V College of Engineering, India	Title: Plasmonic Au-ZnO heterojunctions
Fatima Jalid National Insitute of Technology Srinagar, India	Title: Exploring reactivity trends and catalyst deactivation in biogas reforming
Kartik Upadhyay PKG Group of Institution, India	Title: Transformation of plastic into the liquid fuel
Dhanasekaran P Erode Sengunthar Engineering College, India	Title: Fixed bed adsorption of Arsenate [As(V)] and Arsenite [As(III)] from groundwater using Artocarpus hirsutus based adsorbent
Vikranthpridhvi Yandrapu Bechtel India Private Limited, India	Title: Process design for energy efficient, economically feasible, environmentally safe methyl chloride production process plant: Chlorination of methane route
Sujoy kumar dey sharda university, India	Title: Study the recrystallization process of CF-PEEK/HA through DSC curve
Anupalli Roja Rani Osmania University, India	Title: Quantum Dots Based in-Vitro Co-Culture Cancer Model for Identification of Rare cancer Cell Heterogeneity
Gitika Rani Saha IITB-Monash Research Academy, India	Title: Tunable anchoring of metal nanoparticles on hard carbon supports for kinetically superior and selective hydrogenation of olefins

N Nirwan SPC Government College, India	Title: Amberlyst A-15: A recyclable catalyst using in greener and efficient one-pot synthesis of novel multi-substituted indolylimidazole derivatives and antimicrobial activity
Gitanjali Pradhan REVA University, India	Title: An accelerated route for synthesis of glycerol carbonate using MgTiO3 perovskite as greener and cheaper catalyst.
Mohamed A Morsy King Fahd University of Petroleum & Minerals, Saudi Arabia	Title: An innovative magnetic resonance spectroscopic method for catalysts' activities
Mostafa Matar Suadi Aramco, Saudi Arabia	Title: The removal of refining hydrocracking's heavy polynuclear aromatic hydrocarbons: Challenges and Solutions
Ahmed M A Almogbel KACST, Saudi Arabia	Title: Enhancing energy efficiency in buildings through functional Nano-Coatings for window glazing: A study on the thermal behavior of glass in Saudi Arabia
Omar Abed KAUST / SABIC, Saudi Arabia	Title: The Effect of Co-Feeding H2 and CO2 on Ethylene Oligomerization to Produce Fuel-Range Hydrocarbons
Meshal Alzaid Jouf University, Saudi Arabia	Title: Exploration Characteristics of Novel Binary Mixed Oxide Nanocomposites for Environmental Catalysis
Tadesu Hailu Mengesha Ming Chi University of technology, Taiwan	Title: Enhancing the electrochemical performance of garnet-based composite membrane via stabilizing its interfacial contact with electrodes for lithium metal batteries.
Kassa Endalamaw Ewnu Ming Chi University of technology, Taiwan	Title: Achieving a highly sensitive and selective oxygen gas sensor based on perovskite Metal halide (MAPbI3) material
Alexandros Paparakis Charles university, Czech Republic	Title: Tin catalysed reductive coupling of CO2 to amines in the presence of H2
Yuli Marcela Henao-Hoyos National University of Colombia, Colombia	Title: Photo-oxidation of cyanide in aqueous solution under visible light using Fe-TiO2 synthesized from ilmenite
Alberth Renne Caranton González Universidad ECCI, Colombia	Title: Dry Reforming and partial oxidation of CH4 over NiAg alloys
Ndi Julius Nsami University Of Yaounde I, Cameroon	Title: Synthesis of carbon supported paladium/nickel catalyst using activated carbon based hazel nuts (corylus avellana) shells. Application on the catalytic reduction of nitrates in surface and ground waters using formic acid as a reducing agent
Mohamed Elsayed Abu Qir Fertilizers and Chemicals Industries Co., Egypt	Title: Fabrication and Characterization of Metal organic framework nanocomposites as a catalyst in Fertilizers plants
Abdul Rhman Hassan Muhammad Cairo University, Egypt	Title: Bioluminescence: Studying the behavior of the light-off bioreporter DF4/PUTK2 as a light-on assay against lead

Chaudhry Haider Ali Department of Chemical Polymer and Composite Materials engineering University of Engineering and Technology, Pakistan	Title: Transesterification of waste cooking oil to convert into Biodiesel using calcined goat bone as catalyst
Nahal Majdodin Science and Research University of Tehran, Iran	Title: Comparison of the Heterogeneous Catalytic Activity of Various Solid Acids in Esterification Process of Methyl Acetate Production
Chikwe Temple Nwoburuigwe University of Port Harcourt, Nigeria	Title: Impacts of functional groups on the intermolecular forces of attraction in animal glue obtained from the femur bones in cow (Bos Taurus)
Fouad EL Mansouri University Abdelmalek Essaadi - Faculty of Sciences and Techniques of Tangier, Morocco	Title: Evaluation of different extraction methods on the phenolic profile and the antioxidant potential of ceratonia siliqua L. Pods extracts
Mekonnen Maschal Tarekegn Ethiopian Civil Service University, Ethiopia	Title: Removal of methylene blue dye using nZVI, nanoclay and iron impregnated nanoclay - A Comparative Study
Feleke Terefe Dilla University, Ethiopia	Title: Synthesis of copper doped zeolite composite for antimicrobial activity and heavy metal removal from waste water
Yohannes Yirga Kefela Mekelle University, Ethiopia	Title: Mixed convection MHD moundary layer flow and heat transfer of nanofluid over an exponentially stretching sheet with effects of thermal radiation and viscous dissipation
Madjid Ifires CRTSE, Algeria	Title: Singlet oxygen involved in activation of peroxymonosulfate by recyclable Co0.5Mn0.5Fe2O4 for tetracycline degradation
Nouredine Ouarab CRTSE, Algeria	Title: Automotive Exhaust Catalyst based on aluminosilicate materials
Sara Chikhi Blida University, Algeria	Title: Preparation and characterization of new bio-sorbents generation
Ahmed Bahgat Qatar University, Qatar	Title: Tailoring cu-hydroxyapatite catalysts for hydrogenation of levulinic acid to □-valerolactone: Impact of copper loading, reaction temperature, and catalyst durability
Mudhafar Ali Hasan National Central University, Yemen	Title: Pool boiling heat transfer enhancement on microporous Fluorinated-Graphene coating durfaces by electrophoretic deposition technique

Oral Presentation slots are open

Poster Presentations

Cesar Morales Verdejo Universidad Bernardo O Higgins, Chile	Title: Evidence for formation of iron oxide nanoparticles into the mechanistic of the thermal decomposition of ammonium perchlorate using ferrocenyl compounds derived from 1,2,3-triazolyl ligand as burning rate catalysts
Benguella University of Tlemcen, Algeria	Title: Removal of heavy metals from aqueous solution by the natural Marne clay
Vitaly K. Koltover Russian Academy of Sciences, Russia	Title: Nuclear spin catalysis in living nature: magnetic-isotope effects in cells and biomolecular motors
Dineshkumar Ishwarlal Prajapati M. G. Science Institute, India	Title: Synthesis, Charcterization and application of nano sized barium chromate for photocatalytic degradation of an organic pollutant
Namrata Joshi Madhav University, India	Title: Microbial pre-treatment of cellulosic materials – a faster and economic approach for bioethanol production
Kartik upadhyay PKG Group of Institution, India	Title: Transformation of plastic into the liquid fuel
Obaid F Aldosari Majmaah University, Saudi Arabia	Title: Production of hydrogen fuel from sea water
Ridhwan Lawal King Fahad University of Petroleum and Minerals, Saudi Arabia	Title: Using artificial intelligence to predict the performance of Al2O3 supported Mixed-Metal catalysts for the oxidative dehydrogenation of n-Butane
Habte Ming Chi University of Technology, Taiwan	Title: Adsorptive removal of basic green dye from aqueous solution using humic acid modified magnetite nanoparticles: Kinetics, equilibrium and thermodynamic studies
Sleshi Fentie Tadesse Ming Chi University of Technology, Taiwan	Title: Visible light driven Nd2O3/Mo(S,O)3-X·0.34H2O heterojunction for enhanced photocatalytic degradation of organic pollutants
Wollela Behja Nassir Ming Chi University of Technology, Taiwan	Title: Synergetic effect of free-standing composite polymer electrolyte with composite cathode enabling high rate-performance for Solid-State Lithium Batteries
Desalegn Yilma Kibret Ming Chi University of Technology, Taiwan	Title: Preparation of LATP-based composite solid electrolytes via solvent-free thermal-extrusion method for all Solid-State Lithium Metal Batteries
Beyene Hagos Aregawi National Taiwan University of Science and Technology, Taiwan	Title:Application of switchable solvent catalysts for biodiesel synthesis using a novel electrochemical approach
Malika Tamimi University Ibn Zohr, Morocco	Title: The solventfree mechano-chemical grinding ofa bifunctional P25–graphene oxide adsorbentphotocatalyst and its configuration as porousbeads
Arzu Akif Y.H.Mamedaliyev's Institute of Petrochemical Processes of the Ministry of Science and Education, Azerbaijan	Title: Oxidative dehydrogenation of 4-vinylcyclohexene in the presence of modified forms of Zr, Fe-pentasyls

MohammadHossein Derakhshan Zand institute of higher education, Iran	Title: Convergence analysis of numerical method for the two-dimensional multi-term distributed order time-fractional diffusion equations

Poster Presentation slots are open