19TH EDITION OF
GLOBAL CONFERENCE ON

CATALYSIS, CHEMICAL ENGINEERING & TECHNOLOGY

Expedite the Future Endeavours in Catalysis and Chemical Engineering

Our OCMs

STANISLAW DZWIGAJ
Sorbonne University, France

THOMAS J WEBSTER
Interstellar Therapeutics, United States

ALEC GROYSMAN
Technion (Israeli Institute of Technology), Israel

DAI YEUN JEONG
Asia Climate Change Education Center, Korea, Republic of

THOMAS J COLACOT
MilliporeSigma, United States

MARTA LITTER
University of General San Martin, Argentina

SHUNLI WANG
Smart Energy Storage Institute, China

M A MARTIN LUENGO
Institute of Materials Science of Madrid, Spain

Scientific TOPICS

- Catalysis and Porous Materials
- Catalysis for Energy
- Photochemistry, Photobiology and Electrochemistry
- Catalysis for Renewable Sources
- Chemical Kinetics and Catalytic Activity
- Catalysis and Applications
- Homogeneous Catalysis, Molecular Catalysis
- Catalysis for Biorefineries
- Chemical Engineering
- Heterogeneous Catalysis
- Advances in Catalysis and Chemical Engineering
- Reaction Chemistry and Engineering
- Catalysis in Nanotechnology
- Industrial Catalysis and Process Engineering
- Environmental Catalysis

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Contact us: Email: catalysis@magnusconference.com | https://catalysis-conferences.magnusgroup.org
Phone: +1 (702) 988 2320 | **Whatsapp:** +1 (540) 709 1879

Keynote Presentations

Thomas J Webster Interstellar Therapeutics, United States	Title: Saving the environment: Removing toxic catalysts from nanoparticle synthesis
Stanislaw Dzwigaj Sorbonne University, France	Title: CO_2-assisted dehydrogenation of propane to propene over Zn-BEA zeolites: Impact of acid–base characteristics on catalytic performance
Marta Litter University of General San Martin, Argentina	Title: Use of iron nanomaterials for the treatment of emergent contaminants in water
Dai Yeun Jeong Asia Climate Change Education Center, Korea, Republic of	Title: How to analyze the effectiveness of climate change policy
Alec Groysman Technion (Israeli Institute of Technology), Israel	Title: Corrosion problems and solutions in the chemical and petrochemical industry
Sergey Suchkov Institute for Biotech & Global Health of RosBioTech and A.I. Evdokimov MGMSU, Russian Federation	Title: Personalized and Precision Medicine (PPM) as a unique healthcare model to be set up through biodesign-inspired biotech-driven translational applications and upgraded business marketing to secure the human healthcare, wellness and biosafety
Shunli Wang Smart Energy Storage Institute, China	Title: Core state parameter monitoring of high-reliability smart energy storage systems

Oral Presentations

Rafael L Espinoza RE Consulting, United states	Title: Main variables on the design of a fixed bed reactor
Abul Kasem Fazlur Rahman Oklahoma School of Science and Mathematics, United States	Tiltle: Transition metal mediated activation of carbon dioxide
Rajdeep Deka Purdue University, United States	Title: Comparative study of sawdust and corn stover biomass: Evaluating the influence of reaction temperature on lignin depolymerization, sugar extraction, and reaction kinetics.
Orlando Elguera D.Sc. with Major in Analytical and Inorganic Chemistry/BSc. with Major in Chemical Engineering, Peru	Title: Review of research topics for scaling-up of sonochemical reactors (Sono-reactors)
Sergey Suchkov Institute for Biotech & Global Health of RosBioTech and A.I. Evdokimov MGMSU, Russian Federation	Title: Antibody-proteases as translational tools of the next-step generation to be applied for biotech, bioindustry and personalized and precision medical practice

Lukas Pluska Exazyme GmbH, Germany	Title: Protein regression models as cornerstone of AI-guided protein evolution
Osman Adiguzel Firat university, Turkey	Title: Shape reversibility and functional characterization of shape memory alloys
Enrico Paris CREA-IT & DIAEE, Italy	Title: Enhancing syngas quality from biomass gasification using an iron-based splitting reactor
Pieter Samyn SIRRIS–Department Innovations in Circular Economy, Belgium	Title: Nanocellulose coatings for photocatalytic and photosynthetic properties
Orchidea Maria Lecian Sapienza University of Rome, Italy	Title: Markov chain of the K Ras4B dynamics and new pertinent markov-state model
Ajaysing Sunilrao Nimbalkar Korea Research Institute of Chemical Technology, Korea, Republic of	Title: Advancements in multimetallic alloy catalysts for enhanced biomass valorization: Unlocking sustainable solutions
Doowook Kim Korea institute of energy research, Korea, Republic of	Title: Parametric study on steam reforming of methane to syngas with Ru/Al2O3 catalyst in an annular reactor
Ashanendu Mandal University of Calcutta, India	Title: Phenol removal from wastewater using innovative biological and industrial wastes as adsorbents
Suresh C Ameta Paher University, India	Title: Photocatalysis: An emerging green chemical pathway
Reena Saxena Suresh Gyan Vihar University, India	Title: Structural and functional evaluation of biochar produced from spent coffee grounds (SCG) for AgNPs removal from industrial effluent
Ram Sambhar Shukla CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), India	Title : Rhodium-hexagonal mesoporous silica based effective heterogeneous catalyst for hydroformylation of vinyl esters
Tokeer Ahmad Jamia Millia Islamia, India	Title : Designing advanced heterostructured nanocatalysts for scalable H2 production
Rajesh Kumar B.R.A. Bihar University, India	Title: Lipase mediated synthesis of modified bicyclic nucleosides
Bhawna Rawat INST Mohali, India	Title: Utilizing the undesirable oxidation of Lead-free perovskite for photocatalytic C(sp3)—H activation: Unraveling the serendipity
Raina Sharma Institute of Nano Science and Technology, mohali, India	Title: An investigation of the phosphate functionalization, kinetics, and mechanistic aspects of phosphorylated sporopollenin as sustainable catalyst for selective 5-Hydroxymethylfurfural formation in water
Shally Gupta Indian institute of Technology Delhi, India	Title: Sustainable recycling of valuable materials from lithium-ion battery waste via hydrometallurgical process

Shashank Shekhar Indian Institute of Technology New Delhi, India	Title: Iron-based catalyst for production of hydrogen and carbon nanotubes through the catalytic decomposition of methane.
Ieva Kiminaite Lithuanian energy institute, Lithuania	Title : Upcycling of plastic to carbon black and H_2-Rich gas
Tianyi Hu PetroChina Planning and Engineering Institute, China	Title: High performance HZSM-5 zeolite catalysts for catalytic cracking of hydrocracking diesel to produce light olefins
Jiren Zheng National Sun Yat-sen University, Taiwan	Title: Photocatalytic oxidation of elemental mercury by hydrophobic reduced graphene oxide modified CeO2/TiO2
Xianhu Long Sun Yat-sen University, China	Title: Sustainable Fe(III)/Fe(II) cycles triggered by co-catalyst of weak electrical current in Fe(III)/peroxymonosulfate system: Collaboration of radical and non-radical mechanisms
Tao Zhong Sun Yat-sen University, China	Title: Cu nanocrystals coupled with poly (heptazine imide) for synergistically enhanced photocatalytic CH3SH elimination: Facet engineering strengthened electron pump effect
Samaila Muazu Batagarawa Umaru Musa Yaradua University, Nigeria	Title: Surface enhanced hematite (Fe2O3) from natural sand as catalyst for application in biodiesel production
Mojeed Olalekan Bello University of Ilorin, Ilorin, Kwara State, Nigeria	Title: Photo-degradation of methylene blue dye using TiO2 Enhanced by adsorptive properties of Zeolite-Y
Naima Habbab Laboratory of Chemistry of Natural Gas, Faculty of Chemistry (USTHB), Algeria	Title : Synthesis and caracterization of CexMnY-Mg4Al2 hydrothalcite based system. application in oxidation of n-Butanol.
Mahmoud Fathy Mubarak Egyptian Petroleum Research Institute, Egypt	Title: Advancements in catalytic processes for sustainable chemical engineering
Hossam Ahmed Aly Moustafa Teama Abu Qir Fertilizers Company, Egypt	Title: Understanding membrane fouling and chemical cleaning performance for cleaning agents, a review article
Toritsegbone Erik Tite Durban University of Technology, South Africa	Title: Exploration of the application of free and immobilized laccase enzymes for the treatment of paper industry effluent
Yohannes Yirga Kefela Mekelle University, Ethiopia	Title: Mixed convection MHD boundary layer flow and heat transfer of nanofluid over an exponentially stretching sheet with effects of thermal radiation and viscous dissipation
Kesatie Legesse Habtemariam Mekelle University, Ethiopia	Title: Development of wearable health monitoring devices for chronic disease management
Barkouch Hamid University of Moulay Ismail, Morocco	Tiltle: Development of modified electrodes for electrochemical analysis of flubendiamide under UV excitation.

Oral Presentation slots are available

Poster Presentations

Tim Lenz Technical University of Munich, Germani	Title: Perfectly isotactic polypropylene upon in situ activation of ultrarigid meso metallocenes
Lukas Eylert Technical University of Munich, Germany	Title: Catalytically programmed functional nano-objects using artificial intelligence
Xia Li Tianjin Key Laboratory for Prevention and Control of Occupational and Environmental Hazards, China	Title: Enantioselective total syntheses of flavonoid diels-alder natural products
Xia Li Tianjin Key Laboratory for Prevention and Control of Occupational and Environmental Hazards, China	Title : Upgrading of biomass-derived platform compound 5-hydroxymethylfurfural to high-value chemicals: An environment-friendly corrosion inhibitor
Meriem Hafied Batna, Algeria	Title: Structure, charge delocalization and activation of C-C, C-H, C-X bonds in small cycloalkanes: Theoretical approach

Poster Presentation slots are available