

22nd Edition of Global Conference on Catalysis & Reaction Engineering

Theme: Advancing Catalysis
& Chemical Engineering:
From Principles to Practice



05-07TH
OCTOBER
2026

Our SCIENTIFIC COMMITTEE MEMBERS



THOMAS J WEBSTER
Brown University, United States



STANISLAW DZWIGAJ
Sorbonne University, France



ENRICO PARIS
CREA-IT & DIAEE, Italy



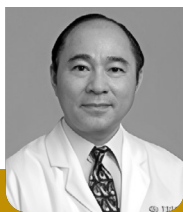
HANNA KIERZKOWSKA
PAWLAK
Lodz University of Technology,
Poland



SERGEY SUCHKOV
N.D. Zelinskii Institute for Organic
Chemistry of the Russian Academy
of Sciences, Russian Federation



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



GUO WEI HE
TEDA International Cardiovascular
Hospital, Tianjin University, China



TOKEER AHMAD
Jamia Millia Islamia, India



RAM SAMBHAR SHUKLA
CSIR-Central Salt and Marine
Chemicals Research Institute
(CSMCRI), India

Scientific TOPICS

- Catalysis for Energy
- Chemical Engineering
- Heterogeneous Catalysis
- Environmental Catalysis
- Fluid Mechanics
- Petrochemical Engineering
- Green and Sustainable Chemistry
- Catalysis for Renewable Sources
- Catalysis for Biorefineries
- Advances in Catalysis and Chemical Engineering
- Biocatalysis and Biotransformation
- Surface Chemistry: Colloid and Surface aspects
- Computational Catalysis
- Homogeneous Catalysis
- Industrial Catalysis
- Organocatalysis
- Separation Processes
- Enzymatic Catalysis and Microbial Technology

Contact us: Email: catalysis@magnusconference.com

Web: <https://catalysis-conferences.magnusgroup.org/>

Phone: +1 (702) 988-2320 | WhatsApp: +1 (540) 709-1879



VENUE

Hilton Tokyo Narita Airport, 456
Kosuge Narita City Chiba 286-0127,
Tokyo, Japan

Tentative Program

Keynote Presentations

Title: Application of vanadium, tantalum and chromium single-site zeolite catalysts in catalysis

Stanislaw Dzwigaj, Sorbonne University, France

Title: The Concept and Implications of Low Carbon Green Growth

Dai Yeun Jeong, Asia Climate Change Education Center, Korea, Republic of

Title: Nanomaterials to fight cancer, cysts, infection, and numerous other health ailments: Human data

Thomas J Webster, Brown University, United States

Title: Influence of various catalysts on H₂ enhancement and CO₂ capture during syngas upgrading

Enrico Paris, CREA-IT & DIAEE, Italy

Title: Plasma deposited nanocomposite thin films as integrated catalytic systems on structured packings: Concepts and applications

Hanna Kierzkowska Pawlak, Lodz University of Technology, Poland

Title: Personalized and Precision Medicine (PPM) as a unique healthcare model via bi-odesign, bio- and chemical engineering, translational applications, and upgraded business modeling to secure the human healthcare and biosafety

Sergey Suchkov, N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation

Title: Advanced nanostructures for carbon neutrality and sustainable H₂ energy

Tokeer Ahmad, Jamia Millia Islamia, India

Title: Advances in heterogeneous catalysis for green conversion of propene to aldehydes and alcohols

Ram Sambhar Shukla, CSIR-Central Salt and Marine Chemicals Research Institute (CSMCRI), India

Oral Presentations

Title: Single cell RNA sequencing reveals vascular heterogeneity and immune crosstalk in the glioma blood tumor barrier

Ling Yin, Cornell University, United States

Title: Reversible redox dynamics of cocatalysts underpinning photocatalysis for solar hydrogen production

Zheng Li, University of Calgary, Canada

Title: Oxidation of 4-methoxytoluene over copper-containing BEA-type zeolite catalyst

Tsitsishvili Vladimer, Petre Melikishvili Institute of Physical and Organic Chemistry at the Tbilisi State University, Georgia

Title: Catalytic CO₂ hydrogenation over additively manufactured metal structures under ambient conditions

Shailza Sharma, RMIT University, Australia

Title: Tuning core-shell-like structural evolution of Cu-ZnS photocatalysts for selective conversion of biomass-derived carbon to hydrogen and lactic acid

Rehan Gunawan, University of New South Wales, Australia

Title 1: Oxidation of methane to methanol over pairs of transition metal ions stabilized in the zeolite matrices

Title 2: Distant binuclear vanadium V(II) cationic sites in zeolites and their reactivity

Jiri Dedecek, J Heyrovsky Institute of Physical Chemistry , Czech Republic

Title: Nanometer-thin DALP- Pt electrocatalysts with ultralow platinum loading for efficient hydrogen evolution reaction

Ruchi Sharma, ATLANT 3D, Denmark

Title: Dimethyl ether synthesis from syngas over Cu-Zn/Al₂O₃ catalysts prepared using the Sol-Gel method

Uday Som, Research and Development Engineer, Japan

Title: TC2C™ A transformative petrochemical technology

Hussain Alhashem, Saudi Aramco, Saudi Arabia

Title: DFT insight into RH-stabilized oxygen-vacancy ensembles on In₂O₃ for selective propanal hydrogenation to 1-propanol

Rafia Ahmad, King Abdullah University of Science and Technology, Saudi Arabia

Title: Ultrastable ZnAlPO₄ catalyst for stable CF₄ hydrolysis over 3700 hours

Eun Han Lee, Korea Institute of Energy Research, Korea, Republic of

Title: Acidity-modulated Pt speciation in Zeolite Y governing room-temperature HCHO oxidation

Ammara Ayub, University of Science and Technology (UST), Korea, Republic of

Title: Photoaligned azodye nanolayers : New nanotechnology for liquid crystal devices

Vladimir G Chigrinov, Hong Kong University of Science and Technology, Russian Federation

Title: Antibody-proteases as a generation of unique biomarkers, biocatalysts, potential targets and translational tools towards nanodesign-driven biochemical engineering and precision medical practice

Sergey Suchkov, N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation

Title: Nanophysics as an innovation discovery

Vladimir V Egorov, National Research Center “Kurchatov Institute”, Russian Federation

Title : Post-translational modifications of proteins in cardiovascular diseases

Guo Wei He, TEDA International Cardiovascular Hospital, Tianjin University, China

Title: Development of specialty amines derived from acrylonitrile: A case study of N,N-dimethyl-1,3-propanediamine

Chen Wu, Institute of Zhejiang University, China

Title : Distinct NH₃-SCR behavior over Cu-KFI zeolites synthesized from protonic and ammoniac forms: Activity, hydrothermal stability and mechanism investigation

Birong Miao, Dalian Maritime University, China

Title: Maze-structured metal-organic framework (MOFs) used as cathodes in anaerobic digestion microbial electro synthesis systems to enhance the production of acetate and butyrate

Aixin Zhang, Wuhan University, China

Title: One-step strategy to maximize single-atom catalyst utilization in nitrate reduction via bidirectional optimization of mass transfer and electron supply

Xianhu Long, Sun Yat-Sen University, China

Title: Durable and efficient concentrated-solar catalytic methane dry reforming over Ni-based catalysts

Zeai Huang, Southwest Petroleum University, China

Title: Memory characteristics and diffusionless phase transformations in shape memory alloys

Osman Adiguzelm, Firat University, Turkey

Title: Reusable clay Cu catalysts: Green routes to key organic transformations

Bashir Ahmad Dar, University of Kashmir, India

Title: Single-atom NiMo catalyst supported on amorphous alumina for enhanced hydrodesulfurization of dibenzothiophene

Harsh Bhanushali, Indian Institute of Technology Kanpur, India

Title: Protein and enzyme conformational dynamics as catalytic state transitions: A B-Bio/B-Chem framework demonstrated using BVidAL clinical software suite

Abhishek Bansal, New Era Consultancy Services, India

Title: A model fitting approach for the investigation of thermo kinetic parameters of rice straw – A viable renewable energy resource in Bangladesh

Abu Md Mehdi Hassan, Lincoln University College, Malaysia

Title: From bauxite waste to value: Technologies for red mud reuse

Collin G Joseph, Universiti Malaysia Sabah, Malaysia

Title: Rational design of a P3HT-assisted palladium nanoparticle-modified ITO electrode for highly sensitive electrochemical sensing of cholecalciferol

Sanya Khursheed, HEJ Research Institute of Chemistry, Pakistan

Title: The Fe PNP 15 H₂O catalyst reduction catalytic test and its valorisation as acid catalyst to the methylal synthesis

Rabeharitsara Andry Tahina, GPCI-ESPA Antananarivo University, Madagascar

Title: Management of Kelani River basin through Multi – Stakeholder partnership

L P R J Wijesinghe, Department of Community Water Supply, Sri Lanka

Title: Enzymatic pre-treatment of red meat abattoir effluent to reduce fat, oil, and grease while enhancing biogas generation

Mabatho Moreroa, University of South Africa, South Africa

Title : Role of natural fiber morphology on impact resistance in copper-based nanocomposites

Daniel Gyasi Antwi, Department of Applied Physics, Ghana

Title: Utilizing complex coacervation to promote the controlled crystallization of hydrophobic drugs

Anvesha Subramanian, University of Houston, United States

Title: Polyoxometalate-derived molybdenum catalysts for the reverse water–gas shift reaction

Asma M O Aldajani, University of Liverpool, United Kingdom

Title: Synergistic light trapping and plasmonic enhancement in black silicon-based photocathodes for photoelectrochemical water splitting

Neul Ha, Sungkyunkwan University, Korea, Republic of

Title: Generation of a macroscopic number of compact massive electron (ee) pairs with increasing electron density and cold nuclear reactions

Mikhail Petrovich Kashchenko, Ural Federal University, Russian Federation

Title: Phosphine CN-palladacycles catalyzed regioselective alkoxycarbonylation of styrenes

Julian A Enciso Vargas, National Autonomous University of Mexico, Mexico

Title: Catalytic potential and practical limitations of N-doped nanomaterials in plastic depolymerization

Maria Konnova, Hamad bin Khalifa University, Qatar

Oral and Poster presentations slots are available!!