# 21st Edition of Global Conference on

# Catalysis, Chemical Engineering & Technology

Theme: Exploring New Horizons in Catalysis and Chemical Engineering



ACCREDITED PROVIDER #780056

Our OCMs



STANISLAW DZWIGAJ Sorbonne University, France



VLADISLAV SADYKOV

Boreskov Institute of Catalysis

Russian Federation



THOMAS J WEBSTER
Interstellar Therapeutics,



SERGEY SUCHKOV

R&D Director of the National Center
for Human Photosynthesis, Mexico



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



ENRICO PARIS
CREA-IT & DIAEE, Italy

**11-13**TH SEPTEMBER 2025

# 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



Olympia Hotel, Events & Spa Carrer Mestre Serrano, 5, 46120 Alboraia Valencia, Spain

#### Stanislaw Dzwigaj, Sorbonne University, France

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

# Thomas J Webster, Interstellar Therapeutics, United States

Title: 30,000 nano implants in humans with no infections, no loosening, and no failures

# Dai Yeun Jeong, Asia Climate Change Education Center, Korea

Title: Human impact on natural environment and its implications

# Vladislav Sadykov, Boreskov Institute of Catalysis, Russian Federation

Title: Design of nanocomposite materials for active components of structured catalysts for biofuels transformation into syngas, catalytic layers of membrane reactors with oxygen/hydrogen separation and anodes of solid oxide fuels cells operating in the internal reforming mode

# Sergey Suchkov, R&D Director of the National Center for Human Photosynthesis, Mexico

Title: Personalized and precision medicine (PPM) as a unique healthcare model through biodesign-inspired & biotech-driven translational applications and upgraded business marketing to secure the human healthcare and biosafety

# Isabel Oller Alberola, Plataforma Solar de Almería, Spain

Title: Solar heterogeneous photocatalysis and photochemistry for urban wastewater regeneration and reuse

#### Jean Paul Lange, University of Twente, Netherlands

Title: Valorizing lignocellulose to ethylene glycol: Catalysis, catalyst deactivation and conceptual process design

#### Enrico Paris, CREA-IT & DIAEE, Italy

Title: Effect of bed material on syngas quality: Comparison of biomass gasification with different bed materials

# Ho Soon Min, INTI International University, Malaysia

Title: Will be updated soon

#### Haibo Ge, Texas Tech University, United States

Title: Distal functionalization via transition metal catalysis

#### Beatrice Vincenti, Sapienza University of Rome, Italy

Title: Cleaner syngas from biomass gasification: Is K-Feldspar the key?

# Inayath Ali Khan, University of Southern Denmark, Denmark

Title: Scalable synthesis of the PEM electrolysis anode material

# Martin Vlcek, Independent Researcher, Czech Republic

Title: The Living Water

# Pawel Huninik, Adam Mickiewicz University, Poland

Title: ?-Selective hydroboration of alkynoic esters catalyzed by ionic liquids

## Shinya Hodoshima, Chiyoda Corporation, Japan

Title: Energy efficient propylene production by catalytic cracking of light naphtha over zeolite based composites

# Jin Hee Lee, Korea Research Institute of Chemical Technology, Korea

Title: Sustainable advancements in polyurethane monomer synthesis: Green pathways from CO2 to isocyanates

#### Dong Nam Shin, Research Institute of Science and Technology, Korea

Title: Simultaneous removal of COS and H2S within blast furnace gas by using iron oxides

## Gayatri Udaysinh Ingale, University of Science and Technology, Korea

Title: Development of industrial scale turquoise hydrogen production system via methane pyrolysis using metal beads

#### Yousef Alroomi, KIPIC, Kuwait

Title: Natural gas as a transitional fuel for carbon emission reduction

#### Ghazwah Alhabashi, KIPIC, Kuwait

Title: The role of electrical/instrument maintenance in enhancing catalyst reactor efficiency in oil refineries

# Sergey Suchkov, R&D Director of the National Center for Human Photosynthesis, Mexico

Title: Antibody-proteases as translational biomarkers, targets and potential tools of the next step generation as applicable for design-driven personalized and precision medical practice

#### Majed Alamoudi, King Abdulaziz University, Saudi Arabia

Title: Role of alkali earth metals in tailoring Ni/CeO2 system for efficient ammonia decomposition

# Sajjad Ali, Prince Sultan University, Saudi Arabia

Title: The role of hydrogen in sustainable energy solutions

# Delia Teresa Sponza, Dokuz Eylul University, Turkey

Title: Production of nanocomposites from wastes to remove the pollutants

# Duygu Karadeniz, Istanbul Technical University, Turkey

Title: Efficient photocatalytic degradation of methylene blue using molybdenum disulfide-doped polyacrylamide-polyvinylpyrrolidone hydrogel

# Yaxin Su, Donghua University, China

Title: Selective catalytic reduction of NO by C3H6 over Cu(x)Co(y)Ce(z)O oxides derived from LDHs

# Pengju Wu, Jiangsu University, China

Title: Current research progress in alkali metals poisoning of Selective Catalytic Reduction (SCR) denitration catalysts

#### Ying Li, Jiangsu University, China

Title: Research progress and future development trend of plasma technology in the field of mercury removal from flue gas

# Angyang Yu, Central China Normal University, China

Title: Computational prediction of an important protein's structure

# Jorge A Delgado, Syensqo, China

Title: Bimetallic catalysts for the hydrogenation of amides: From experimental to data-driven insights

#### Sabah Baqi, Southern University of Sciences and Technology, China

Title: Novel two step surface boron decoration of graphitic carbon nitride photoelectrodes for efficient charge transport and separation

# Diya KV, Lovely Professional University, India

Title: Heterogeneous catalysis: Reaction mechanism and kinetic models

# Anmol Pandey, Indian Institute of Technology Kharagpur, India

Title: Utilization of Li-ion mobile battery waste for adsorptive removal of hazardous Methylene Blue (MB) dye from waste water

## Ashanendu Mandal, University of Calcutta, India

Title: Application of solid waste materials for adsorptive removal of toxic phenol from wastewater to protect environment and also to generate circular economy

# Ladapborlang Mawrie, University of Science & Technology Meghalaya, India

Title: Who gives the hydrogen? A mechanistic study through isotope labeling in photocatalytic hydrogen evolution reactions using cobalt complexes as a catalyst under neutral pH.

# S R Varadhan, Independent Researcher, India

Title: FTIR and Raman spectral analysis on kerosene and crude oil-auldetration in gaselione, adverse effectets on nature during production and trasportation

#### Tapati Bhanja Dey, Jain University School of Allied Healthcare and Science, India

Title: Green chemistry in action: Enzymatic extraction of bioactive phenolics

#### Aditi Das Talukdar, National Institute of Technology Rourkela, India

Title: Development of GO-SiO2 based superhydrophobic surface for oil and water separation

# Ahmed Mourtada Elseman, CMRDI, Egypt

Title: Multiwalled carbon nanotubes as hole collectors in inverted perovskite solar cellsoxygens

#### Moaz M. Abdou, Egyptian Petroleum Research Institute, Egypt

Title: Catalytic esterification for the efficient synthesis of phosphinic dipeptides and their acetylated glucose derivatives

# Omar Boualam, Higher school of technology of Fez. Sidi Mohammed ben Abdellah University, Morocco

Title: Catalytic oxidation of phenol using iron-supported illite: Optimization of parameters for efficient wastewater treatment

# Lhoussain Kadira, CRMEF FES, Morocco

Title: Preparation and physicochemical characterization of lanthanum-calcium co-doped barium titanate

# Fatemehsadat Mirmohammadmakki, Shahid Beheshti University of Medical Sciences, Iran

Title: Biosorption: A sustainable and practical effective technique for heavy metal reduction

# Mohammad Saleh Shafeeyan, Golestan University, Iran

Title: Ammoxidation of palm shell based activated carbon to promote CO2 adsorption

#### Seyed Mostafa Hosseini Asl, IRI Science and Technology Supporters Foundation, Iran

Title: Coal fly ash derived new generation versatile nano zeolites

# Paula Maseko, Rhodes University, South Africa

Title: Synthesis and characterization of isonicotinic acid and nicotinic acid metal organic frameworks for use in the treatment of hepatocellular carcinoma

## Mohammas Israr, Maryam Abacha American University of Nigeria, Nigeria

Title: Frame wok for industrial benchmarking in logistics centric activities through CRITIC analysis and KANO questionnaire

#### Oral presentation slots are available!!

#### Maria, Murcia University, Spain

Title: Removal of terephthalic acid, derived from polyethylene terephthalate plastics, using an advanced oxidation process based on a KrCl excimer photoreactor

# William Mendes Godoy, University of Sao Paulo, Brazil

Title: Synthesis and evaluation of styrene-based polymeric resin for glycerol acetalization: Effect of crosslinkers on swelling and catalytic performance

# Mikhail Petrovich Kashchenko, Ural Federal University, Russian Federation

Title: Fixation of atoms with increased masses, as a consequence of the existence of massive electron pairs - the basis of catalysis of low-temperature nuclear synthesis

#### Young Woo You, Korea Research Institute of Chemical Technology, Korea

Title: Microwave-enhanced CO2 reforming with C2+ gas mixture

#### Yong Soo Kim, University of Ulsan, Korea

Title: Multimode exciton-polaritons in self-assembled hybrid organic-inorganic perovskite microcavities

#### Mengstu Etay Ashebir, Institute of Atomic and Molecular Sciences Academia Sinica, Taiwan

Title: Electronic structure engineering of nickel single-atom catalyst by phosphorous for efficient electrocatalytic CO2 reduction reaction in a proton-rich microenvironment

#### Sourav Halder, Indian Institute of Technology Kharagpur, India

Title: Optimization of Fe3O4 nanoparticles loading on reduced graphene oxide nanosheets for the efficient removal of aqueous p-nitroaniline and Cr(VI)

# Mohammed El Amine Nouairi, Mustapha Stambouli University of Mascara, Algeria

Title: Study and development of a colored filter for the attenuation of harmful ultraviolet optical intensity

# Makhloufi Mohamed Cherif, University of Boumerdes, Algeria

Title: Micro-wave synthesis of MnO2 for high-performance supercapacitor application

# A A Abduvayitov, Tashkent State Technical University, Uzbekistan

Title: Morphology, composition and electronic structure of the CdS thin films surface

#### Poster presentation slots are available!!