21st Edition of Global Conference on

Catalysis, Chemical Engineering & Technology

Virtual Event

Theme: Exploring New Horizons in Catalysis and Chemical Engineering

ACCREDITED PROVIDER #780056

11-13TH SEPTEMBER 2025

Our OCMs

STANISLAW DZWIGAJ
Sorbonne University, France

THOMAS J WEBSTER
Interstellar Therapeutics, United States

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

VLADISLAV SADYKOV
Boreskov Institute of Catalysis, Russian Federation

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

ENRICO PARIS
CREA-IT & DIAEE, Italy

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

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Keynote Presentations

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

Enrico Paris, CREA-IT & DIAEE, Italy

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

Oral Presentations

Haibo Ge, Texas Tech University, United States

Title: Distal functionalization via transition metal catalysis

Rafael L Espinoza, RE Consulting, United States

Title: Main Variables on the Design of a Fixed Bed Reactor

Beatrice Vincenti, Sapienza University of Rome, Italy

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

Thi Hong Hanh Le, Italian Institute of Technology, Italy

Title: Coupling of cuo@nibiox catalyzed glycerol oxidation to carbon dioxide reduction reaction for enhanced energy efficiency

De Sa Peixoto Paulo, INRAE/UMET, France

Title: Presentation Title Guided Microbial Enzymatic Catalysis for Developing Biocompatible, Eco-Friendly Nanostructured Smart Materials

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

Oral Presentations

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

Osman Adiguzel, Firat University, Turkey

Title: Thermomechanical processes and transformations governing reversibility in shape memory alloys

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

Oral Presentations

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

Xu Zhusong, Research Institute of Petroleum Exploration and Development, China

Title: Surfactant-confined synthesis of novel W-precursor and its application in the preparation of efficient hydrotreating catalysts

Li Jian, Research Institute of Petroleum Exploration and Development, China

Title: Generation, migration-accumulation characteristics and rnrichment mechanisms of helium-rich gas reservoirs in China

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

Title: Role of lysine propionylation of human right atrium and ALDH6A1-NADH pathway in new-onset atrial fibrillation after coronary surgery

Binod Kumar Dulal, Tribhuvan University, Nepal

Title: Isolation and characterization of chitin and chitosan from fresh water prawn shells

Ouaar Faiza, University of Tlemcen, Algeria

Title: Volumetric, optic and acoustic properties for binary mixtures of 2-(2- ethoxyethoxy)ethanol with 1-propanol, 2-propanol, 1-butanol or 2-butanol at temperature range of (293.15 to 323.15) k

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 effectcts 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

Oral Presentations

Bhawna Rawat, INST Mohali, India

Title: Untapped potential of lead-free halide perovskites for synergistic biomass valorization and solar fuel generation

Sai Prakash Katke, University of Mumbai, India

Title: Solar-powered rod-shaped Cu-MOF photocatalyst with carboxylate double linkers for efficient Cr(VI) reduction and rhodamine B degradation

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

Title: Perspective of ruthenium complex catalyst system for selective oxidation of methane

Tokeer Ahmad, Jamia Millia Islamia, India

Title: Multi-component Heterostructures for Scalable Green H2 Production using Overall Catalysis

Swati Dhamija, Amity University, Noida , India

Title: Structural engineering of Ni(II)-porphyrins: Exploring polymorphism and photocatalytic behaviour

J Somasekar, Jain University, India

Title: Predictive modelling for catalysis using supervised machine learning

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

Raafat abdeldayem, Masoura University, Egypt

Title: The role of catechins as natural iron chelator

Ahmed Diab Mohamed Ahmed El Esawy, Menoufia University, Egypt

Title: Antibacterial activity of bioactive compounds extracted from the Egyptian untapped green algae Rhizoclonium hieroglyphicum

Othmane Zakir, University Mohammed VI Polytechnic - Cadi Ayyad University, Morocco

Title: Recent progress in nanomaterials for water treatment: Adsorption, photocatalytic, and antibacterial applications

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

Benrzeil Hajar, Faculty of Science Moulay Ismail, Meknes, Morocco

Title: 14-(4-prolinamidophenyl)-14H-dibenzo[a,j]xanthene as novel organocatalyst for asymmetric aldol reactions in green conditions

Oral Presentations

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

Azam Akbari, Tarbiat Modares University, Iran

Title: Metal decorated 2D MXene-based catalyst for efficient deep oxidative desulfurization

Aminreza Ansari, Khark Petrochemical co, Iran

Title: Considering the concept of total chemical, energy, water, and cost consumption in optimizing process sustainability—not just total direct cost

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

Ndzondelelo Bingwa, University of Johannesburg, South Africa

Title: Biofuel synthesis from biomass-derived platform molecules over inorganic perovskite catalysts

Tooba Saeed, University of Peshawar, Pakistan

Title: Synthesis of chitosan composite of metal-organic framework for the adsorption of dyes; kinetic and thermodynamic approach

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!!

Poster Presentations

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

Poster Presentations

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

Ibtissem Guennoun, University Claude Bernard France-University Abou Bekr Belkaid , Algeria

Title: Vapor-liquid equilibria of furfural with □-Valerolactone or □-Butyrolactone for biorefinery applications

Behjat Deiminiat, Ferdowsi University of Mashhad, Iran

Title: Gold digital video disc platform modified with graphitic carbon nitride decorated Au–Pt nanoparticles for electrochemical oxidation of methanol

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!!