IRIS Scientific Group

Final Program

World Catalysis and Chemical Engineering Network Congress

April 23-25, 2025

Theme: Advanced Research and Techniques on Catalysis and Chemical Sciences

VIRTUAL - Greenwich Mean Time (GMT)

Email: catalysis@irisscientificgroup.org

Web: https://worldcatalysiscongress.com/

April 23, 2025

Day 01

Webinar Time Zone (GMT)	Speaker Time Zone	
08:30-09:00		AV Check and Introduction

Keynote Presentations

09:00-09:40	18:00-18:40	Title: How to Overcome the Limitations Inherent in Sustainable Development **Dai-Yeun Jeong, Director of Asia Climate Change Education Center, South Korea**
09:40-10:20	17:40-18:20	Title: How Have We Eliminated Infection ? Nanotechnology Human Clinical Studies **Thomas Webster, Hebei University of Technology, United States**
10:20-11:00	12:20-13:00	Title: Enhanced heterogeneous Fenton degradation for liquid waste treatment **Eleonora Aneggi, University of Udine, Italy**
11:00-11:40	19:00-19:40	Title: Hydrogen production with the selective oxidation of benzyl alcohol to benzaldehyde in aqueous medium by a noble-metal-free photocatalyst VC/CdS nanowires **Maria Jose Lavorante, Institution of Scientific and Technological Research for Defense, Argentina**
11:40-12:20	17:10-17:50	Title: Removal of Perfluorooctanoate (PFOA) by Optimized Camelina Meal Biochar Using Central Composite Design-Response Surface Methodology (CCD-RSM) **Tokeer Ahmad, Jamia Millia Islamia, India**
12:20-13:00	15:20-16:00	Title: Digitization of Phase Diagrams of Ternary Halide Systems by Creating Their Computer Models for the Development of Catalytic Materials **Vasily Lutsyk, Buryat State University, Russia**

Poster Presentations

13:00-13:10	21:00-21:10	Title: Enhanced Hydrogen Generation via Atomically Dispersed CoCu Catalysts Supported on Carbon Nanotubes for Ammonia Borane Hydrolysis **Chi Wing Tsang, Technological and Higher Education Institute of Hong Kong, Hong Kong**

Oral Presentations

13:10-13:30	15:10-15:30	Title: Modification of poly(2-chloro-2-propen-1-ol) with ethylenediamine towards the novel material morphology and CO2 sorption properties **Joanna Drzezdzon, University in Gdańsk, Poland**
13:30-13:50	21:30-21:50	Title: Enhancement of barrier protection of organic coatings with the incorporation of graphene oxide as a reinforcing filler **Kumar Sachin, Taylors University, Malaysia**
13:50-14:10	19:20-19:40	Title: Examination of Certain Biomolecules That May Be Effective in Preventing Sars-Cov-2/Covid-19 Through In-Silico Analysis: Initial Studies **Rahul Hajare, Sandip University, India**
14:10-14:30	19:40-20:00	Title: Potential application of innovative solid waste materials for adsorptive removal of toxic phenol from wastewater and generating circular economy **Ashanendu Mandal , University of Calcutta, India**
14:30-14:50	20:00-20:20	Title: Production of Aromatic Hydrocarbons from Long Chain Unsaturated Used Cooking Oil Over a Hierarchical Imidazole Supported Zeolite **Omvir Singh, Rajiv Gandhi Institute of Petroleum Technology, India**
14:50-15:10	20:20-20:40	Title: Taurine: An Eco-friendly Bio Catalyst & more **Ramesh C Gupta, Nagaland University, India**
15:10-15:30	18:10-18:30	Title: Biodegradation of microplastics namely polystyrene, polyester polyurethane, and polyethylene with metal organic framework based UiO-66-OH@MF-3 nanocomposite **Delia Teresa Sponza, Dokuz Eylul University, Turkey**
15:30-15:50	17:30-17:50	Title: Towards zero-emission systems: Intelligent control of odour derived from urban solid waste management plants **Jose Angel Siles Lopez, University of Córdoba, Spain**
15:50-16:10	17:50-18:10	Title: Studying the behavior of the light-off bioreporter DF4/PUTK2 as a light-on assay against lead **Abdul-Rhman H. Muhammad, Cairo University, Egypt**

16:10-16:30	19:10-19:30	Title: Dual Memory Characteristics and Crystallographic Transformations in Shape Memory Alloys **Osman Adiguzel, Firat University, Turkey**
16:30-16:50	19:30-19:50	Title: The Mechanism of Low-Temperature Nuclear Fusion, Generalizing the Ideology of Muonic Catalysis **Mikhail Kashchenko, Ural Federal University, Russia**
16:50-17:10	12:50-13:10	Title: EFFECT OF LOCATION OF ACTIVE ACID SITES ON THE INTERNAL AND EXTERNAL SURFACES OF DIFFERENT ZEOLITES AND ACTIVATED CARBONS BASED ON DELAYED PETROLEUM COKE ON THE CATALYTIC HYDROLYSIS OF STARCH **Luis Isernia, University of Oriente, Venezuela**
17:10-17:30	12:10-12:30	Title: Review of Research Topics for Scaling-up of Sonochemical Reactors (Sono-reactors) **Orlando Elguera, National University of Engineering, Peru**
17:30-17:50	20:30-20:50	Title: Antibody-Proteases as a Generation of Unique Biomarkers, Potential Targets and Translational Tools towards Nanodesign-driven Biotech, Translational Applications and Personalized and Precision Medical Practice **Sergey Suchkov, The Russian University of Medicine & Russian Academy of Natural Sciences, Russian Federation**
17:50-18:10	20:50-21:10	Title: Heterogeneous Catalytic Systems for Nitrogen-Based Fertilizer Production **Ali Yetgin, Cukurova University, Turkey**
18:10-18:30	19:10-19:30	Title: Needs of Ruthenium complexes as anticancer drugs **Lazhar Hajji, University of Al Manar Tunis, Tunisia**

Keynote Presentations

18:30-19:10	21:30-22:10	Title: Biogeosystem Technique Methodology in Chemical-Soil-Biological Engineering **Valery P. Kalinitchenko, Institute of Fertility of Soils of South Russia, Russia**

19:10-19:50	21:10-21:50	Title: Furfural – a intermediate for renewable fuels and chemicals awakening. **Jean-Paul Lange, University of Twente, Netherlands**
19:50-20:50	14:50-15:50	Title: Solution of the millennium problem concerning the Navier-Stokes equations **Alexander G. Ramm, Kansas State University, USA**