

FINAL PROGRAMME

International Conference on

CATALYSIS-2024

Catalysis and Chemical Engineering

September 23-25, 2024 | WEBINAR





Catalysis2024@xpertsmeetings.info



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https://www.xpertsmeetings.org/catalysis2024/



#3rd Floor, Shanthala Nagar, Bengaluru, 560001

Day 1 September 23, 2024				
Time Zone: Beijing, Asia (GMT+8)				
	09:00-09:10 Opening Ceremony			
Plenary & Keynote Session				
09:10-09:50	P	Title: Single Atom Catalysts for Catalytic Water Purification		
		Xiaoguang Duan, The University of Adelaide, Australia		
09:50-10:30	P	Title: Creating a Sustainable Supply Chain Using Carbon Dioxide Through Adsorption and Catalysis		
		Chunshan Song, Chinese University of Hong Kong, Hong Kong		
10:30-11:10	P	Title: TBA		
		Jun Chen, University of Wollongong, Australia		
11:10-11:50	P	Title: Solar Hydrogen Production at Scale by Water Splitting		
		Jae Sung Lee, Ulsan National Institute of Science and Technology (UNIST), South Korea		
11:50-12:30	P	Title: TBA		
		Jae-Jin Shim, Yeungnam University, South Korea		
12:30-13:10	P	Title: TBA		
		Sibudjing Kawi, National University of Singapore, Singapore		
13:10-13:40	k	Title: Step-Designable Electrochemical Technology with Alternating Potentials for Pre-treatment of Antibiotic		
		Production Wastewater		
		Cai Junzhuo, Sichuan Agricultural University, China		
12.40 14.10	k	Title: TBA		
13:40-14:10		Johannessen Bernt, University of Wollongong, Australia		
		Invited Session		
	I	Title: Geochemically-inspired CO2 Reduction with Carbohydrates via Hot Water as Catalyst for Net-Zero		
14:10-14:35		Emission Processes		
4		Yang Yang, Shanghai Jiao Tong University, China		
14:35-15:00	I	Title: Molecular Thermal Motion Energy Harvesters and Their Potential Applications		
14.55-15.00		Yucheng Luan, East Eight Energy Co.Ltd , China		
		Title: Carbon-Efficient Conversion of Synthesis Gas to Linear α-Olefins by a Highly Active Phase-Pure χ-iron-		
15:00-15:25	I	Carbide Catalyst		
		Zhuowu Men, National Institute of Clean-and-Low-Carbon Energy ,China		
	I	Title:ConjugatedMain-Group Chiral Macrocycles with Circularly Polarized Luminescence and Open-Shell		
15:25-15:50		Character		
		Pangkuan Chen, Beijing Institute of Technology, China		
15:50-16:15	I	Title: Various Catalytic Approaches for CO2 Conversion		
		Ziyi Zhong, Guangdong Technion Israel Institute, China		
16:15-16:40	I	Title: Effect of C/SiC Anisotropic Thermal Conductivity on Regenerative Cooling of Combined-Cycle Engine		
		Xing Sun, Northwestern Polytechnical University, China		
16:40-17:05	I	Title: In Situ Electropolymerizing toward Porous Nanofilms of Cobalt Porphyrin and its Cu Tandem Catalyst for		
		Electrochemical CO2 Reduction		
		Xunjin Zhu, Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University		
17:05-17:30	I	Title: Study on Iron-Silica Interaction Over Precipitated Fe/Cu/K/SiO2 Fischer-Tropsch Synthesis Catalyst		
		Hai Chang, National Institute of Clean-and-Low Carbon Energy (NICE), China		
17:30-17:55	I	Title: TBA		
		Hyoung-il Kim, Yonsei University, South Korea		
17:55-18:20	I	Title:		
		Physicochemical Properties and Mechanistic Study of Praseodymium Oxide Supported on Alumina in		
		Methanation of Carbon Dioxide		
Salmiah Jamal Mat Rosid, Universiti Sultan Zainal Abidin, Malaysia				
End of Day 1				

Day 2 September 24, 2024				
Time Zone: Chicago, USA (GMT-5)				
		Ceremony		
09:10-09:35		Title: O-coordinating Ligands in Iron-Catalyzed Cross-Coupling Reactions		
	I	Elwira Bisz, University of Opole, Poland		
09:35-10:00	I	Title: Enhanced Activity of Bulky N-heterocyliccarbenes in Nickel-NHC Catalyzed C-O Bond Activation		
		Marlena Kardela, University of Opole, Poland		
, ,	I	Title: New Silver and Gold Complexes with Multidentate N-heterocyclic Carbenes. Synthesis, Analysis and		
10:00-10:25		Catalytic Properties		
		Katarzyna Halikowska-Tarasek, University of Opole, Poland		
10:25-10:50	I	Title: Synthesis, Characterization and Catalytic Properties of New Silver and Palladium Complexes with		
		Unsymmetrical N-Heterocyclic Carbenes		
		Pamela Podchorodecka, University of Opole, Poland		
10:50-11:15	I	Title: Assisted Photocatalysis for Environmental Applications and Valorization of Biomass		
		Chantal Guillard, Claude Bernard University, France		
11:15-11:40	I	Title: Coupling Electrochemical Advanced Oxidation and Sorption for Water Treatment		
		Meritxell Vila-Fontes, University of Barcelona, Spain		
44 40 40 0	I	Title: High Catalytic Activity of Metal Complexes: a Structural Insight into Metal Ion Coordination Geometries		
11:40-12:05		What was a second of the secon		
		Valentina Migliorati, Sapienza University of Rome, Italy		
12:05-12:30	I	Title: Kinetics of Hydrogen-Oxygen Catalytic Recombination Reaction at Ambient Temperature and at Low		
		Amount of Oxygen		
		Mazzeo Leone, Campus Bio-Medico University, Italy		
12:30-12:55	I	Title: Modeling a H2/CH4 Membrane Separation Unit in a Promising Power-to-Methane concept Alice Bertino, Campus Bio-Medico University, Italy		
	P	Title: Electro- and Photocatalysis of Energy Relevant Processes		
12:55-13:35		Gross Zeev, Israel Institute of Technology, Israel		
	P	Title: The Charge Transfer Mechanism on a Cobalt-Polyoxometalate-TiO2 Photoanode for Catalytic Water		
13:35-14:15		Oxidation in Acid		
10.00 11.10		Hill Craig L, Emory University, USA		
	К	Title: TBA		
14:15-14:45		Sambur Justin, Colorado State University, USA		
	р	Title: A Binary Neodymium Catalyst For the Polymerization of Lactones		
14:45-15:25		Stefan Mihaela C, University of Texas at Dallas, USA		
	I	Title: The Mechanism of the Poisonous Organic Halides Disposal Under the Catalytic Influence of the Vitamin		
15:25-15:50		B12		
		Tudor spataru, Columbia University, USA		
15:50-16:15	Ť	Title: TBA		
	I	Huiqing Zhou, Boston College, USA		
16:15-16:40	I	Title: Metallic Silver Nanoparticles as Efficient Photocatalysts to Convert H2O2 in Hydroxyl Radicals for		
		Organic Pollutant Degradation in Water		
		Julien Mahy, University of Liège, Belgium		
16:40-17:05	I	Title: The Catalytic Role of Copper-Layered Double Hydroxide: a Combined Computational and Experimental		
		Approach for Methanol Oxidation		
		Emiliano Laudadio, Marche Polytechnic University, Italy		
17:05-17:30	I	Title: PSA System Simulation Downstream of Methanation Reactors for direct SNG Integration into existing		
		Natural Gas Grid		
		Vincenzo Piemonte, Campus Bio-Medico University, Italy		
17:30-18:10	P	Title: TBA		
		Ram Gupta, Pittsburg State University, USA		
18:10-18:50	P	Title: Entropy-Maximized Materials for Catalysis Applications		
	Sheng Dai, University of tennessee, USA			
End of Day 2				

2nd INTERNATIONAL CONFERENCE ON

CHEMICAL ENGINEERING, DRUG DISCOVERY & DRUG DELIVERY

SEPTEMBER 25-27, 2025 | Rome, Italy



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