



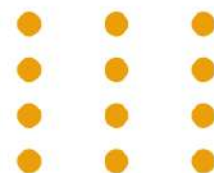
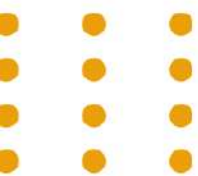
TENTATIVE PROGRAM

International Conference on

CATALYSIS-2024

Catalysis and Chemical Engineering

September 23-25, 2024 | Paris, France



Catalysis2024@xpertsmeetings.info



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



#3rd Floor, Shanthala Nagar,
Bengaluru, 560001

DAY-1

September 23, 2024

09:00-09:15

On Spot Registration

09:15-09:30

Opening Ceremony

Plenary Speakers & Keynote Speakers

Hill, Craig L

Emory University, USA

The charge transfer mechanism on a cobalt-polyoxometalate-TiO₂ photoanode for catalytic water oxidation in acid"

Sibudjing Kawi

National University of Singapore, Singapore

Xiaoguang Duan

The University of Adelaide, Australia

Single Atom Catalysts for Catalytic Water Purification

Sambur, Justin

Colorado State University, USA

Invited Session

Break Out-01, Session-01

Elwira Bisz

University of Opole, Poland

O-coordinating ligands in iron-catalyzed cross-coupling reactions

Marlena Kardela

University of Opole, Poland

Enhanced activity of bulky N-heterocyclic carbenes in nickel-NHC catalyzed C-O bond activation

Katarzyna Halikowska-Tarasek

University of Opole, Poland

New silver and gold complexes with multidentate N-heterocyclic carbenes. Synthesis, analysis and catalytic properties

Pamela Podchorodecka

University of Opole, Poland

Synthesis, characterization and catalytic properties of new silver and palladium complexes with unsymmetrical N-heterocyclic carbenes

Hyoung-il Kim

Yonsei University, South Korea

Chantal Guillard

Claude Bernard University, France

Assisted photocatalysis for environmental applications and valorization of biomass

Break Out-02, Session-02

Meritxell Vila-Fontes

University of Barcelona, Spain

Coupling Electrochemical Advanced Oxidation and sorption for water treatment

Yang Yang

Shanghai Jiao Tong University, China

Geochemically-inspired CO₂ reduction with carbohydrates via hot water as catalyst for net-zero emission processes".

Tudor spataru

Columbia University, USA

The Mechanism of the Poisonous Organic Halides Disposal Under the Catalytic Influence of the Vitamin B12

SALMIAH JAMAL MAT ROSID

Universiti Sultan Zainal Abidin, Malaysia

Valentina Migliorati

Sapienza University of Rome, Italy

Yucheng Luan

East Eight Energy Co.Ltd, China

Molecular Thermal Motion Energy Harvesters and Their Potential Applications

Break Out-03, Session-03

Julien Mahy

University of Liège, Belgium

Metallic Silver Nanoparticles as efficient photocatalysts to convert H₂O₂ in hydroxyl radicals for organic pollutant degradation in water

Zhuowu Men

National Institute of Clean-and-Low-Carbon Energy, China

Carbon-efficient conversion of synthesis gas to linear α -olefins by a highly active phase-pure χ -iron-carbide catalyst

Ziyi ZHONG

Guangdong Technion Israel Institute, China

Various catalytic approaches for CO₂ conversion

XingSun

Northwestern Polytechnical University, China

Application of Carbon Fiber-Reinforced Ceramic Composites in Active Thermal Protection of Advanced Propulsion Systems

EMILIANO LAUDADIO

Marche Polytechnic University, Italy

The catalytic role of Copper-Layered Double Hydroxide: a combined computational and experimental approach for Methanol Oxidation"

End of Day-1 Program

DAY-2

September 24, 2024

Plenary Speakers & Keynote Speakers

Jae-Jin Shim

Yeungnam University, South Korea

Ram Gupta

Pittsburg State University, USA

Sheng Dai

university of tennessee, USA

Entropy-maximized materials for catalysis applications

Cai Junzhuo

Sichuan Agricultural University, China

Step-designable electrochemical technology with alternating potentials for pre-treatment of antibiotic production wastewater

Break Out-01, Session-04

Abdulmajeed Abdullah Alayyaf

King Saud University, Saudi Arabia

Iminodiacetic Acid Organocatalyst for Claisen-Schmidt Condensation

Gnanaprakasam Janani

Korea Institute of Energy Technology (KENTECH), Korea (South)

In-Situ Integration of Co-Active Sites in MnO@C Composite for Zinc-Air Battery Driven Water Splitting

SHASHIKANT DIGHE

Institute of Sustainability for Chemicals, Energy and Environment, Singapore

Photochemical Valorization of Feedstock into High Value Chemicals

Anatolii Startsev

Boreskov Institute of Catalysis, Russian Federation

The Low-temperature Catalytic Decomposition of Hydrogen Sulfide: The Key to Problem Solving of its Practical Use for the Benefit of Mankind

Lakiss

University of Caen Normandy, France

Characterization and Catalytic performances of Zeolite based extrudates

Javad Shirani

McGill University, Canada

Artificial Intelligence driven design of single-atom alloy catalysts via electronic structure features

Break Out-02, Session-05

Yong Peng

Leibniz institute for catalysis, Germany

State-of-the-Art Light-Driven Hydrogen Generation from Formic Acid and Utilization in Enzymatic Hydrogenations

Alshwabkeh, Akram

Northeastern University, United States

Coupling Electrochemical Advanced Oxidation and sorption for water treatment

Katia Jorge Ciuffi Pires

University of Franca, Brazil

Yang, Hui

Imperial College London, USA

Francisco Boscá

Institute of Chemical Technology, Spain

Heterogeneous photocatalysts for disinfection and/or decontamination"

Break Out-03, Session-06

Patrick Martin

University of Artois, France

Salam Yassir

Altinbas University, Turkey

ahmed elgarahy

Port Said University , Egypt

BiochemEcoTech: Pioneering Sustainable Management and Circular Economy for Environmental Transformation".

Sergey Gurevich

Ioffe Institute Saint Petersburg, Russia

Charge effects in catalysis by metal nanoparticles

Mohamed AbdelSalam

King Abdulaziz University, Saudi Arabia

Md. Akhtaruzzaman

Universiti Kebangsaan Malaysia, Malaysia

End of Day-2 Program

DAY-3

September 25, 2024

Plenary Speakers & Keynote Speakers

Jun Chen

University of Wollongong, Australia

Chunshan Song

Chinese University of Hong Kong, Hong Kong

Jae Sung Lee

Ulsan National Institute of Science and Technology (UNIST), South Korea

Solar Hydrogen Production at Scale by Water Splitting"

Vasudevan P. Biju

Hokkaido University, Japan

Semiconductor nanomaterials for energy harvesting Bio and picture are attached.

JOHANNESSEN, Bernt

University of Wollongong, Australia

Agarwal, Ramesh

Washington University in St. Louis, USA

Invited Session

Break Out-01, Session-07

Arif Engin ÇETİN

Izmir Biomedicine and Genome Center, Turkey

Transforming Cell-Based Analyses: An Electrochemical Analysis Platform with Built-In Incubator Function

Pragati Shinde

National Institute for Materials Science, Japan

Rufan Chen

Wuhan University, China

Matheus Almeida Bauer Zytkeuwisz

São Paulo State University, Brazil

Romit Chakraborty

University of California, USA

Precision Modeling of Hydrogen Sorption in MOFs: Quantum Chemical Elucidation of Thermodynamics and Multi-Molecule Storage

Daiana Sacilotto

Federal University, Brazil

Break Out-02, Session-08

Mohamed Abbas

Jagiellonian University, Poland

Munirah S

Oklahoma State University, USA

Tao Ding

University of Science and Technology of China, China

Grigoriy Yablonsky

Washington University in St. Louis, USA

Uk Sim

Korea Institute of Energy Technology, South Korea

Mohamed Hamdy

King Khalid University, Saudi Arabia

Break Out-03, Session-09

Anis Allagui

University of Ottawa, Canada

Alandra Kahl

Penn State Greater Allegheny, USA

Catalysis for undergraduates: using nanoparticles to demonstrate catalytic processes."

Mohamed Hamdy

King Khalid University, Saudi Arabia

Shuang Li

South China University of Technology, China

Ahmed Galhoum

Nuclear Materials Authority, Egypt

Masanori Tachikawa

Yokohama City University, Japan

huanwen chen

China University of Technology, Taiwan

Reaction between N₂ and water without catalyst

Suwimol Wongsakulphasatch

King Mongkut's University of Technology North, Thailand

Ge, Haibo

University of Kansas, USA

Abdeltif Amrane

University of Rennes, France

Biswanath Das

Stockholm University, Sweden

Erol Pehlivan

Konya Technical University, Turkey

Gross Zeev

Israel Institute of Technology, Israel

Electro- and Photocatalysis of Energy Relevant Processes.

Lifeng Liu

International Iberian Nanotechnology Laboratory, Portugal

End of Day-3 Program