



PAGICLE
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THEME:

“Unlocking Future Pathways through
Catalysis and Chemical Engineering”

4th Global Summit on

CATALYSIS & CHEMICAL ENGINEERING

DATES:

July 16 & 17, 2026 (In-Person)

July 18, 2026 (Virtual Via Zoom Platform)

VENUE:

Hotel – Crowne Plaza Rome – St. Peter's
by IHG, Rome, Italy

TENTATIVE AGENDA

DAY - 1-3

July 16, 17 & 18, 2026

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Tentative Agenda

Introduction & Opening Ceremony

Keynote Presentation

Dr Shawn Gouws

Nelson Mandela University, South Africa

Characterisation of Ir-based catalysts (Bi and tri-metal catalysts) for PEM electrolyser

Chung Yu Guan

School of Forestry and Resource Conservation, College of Bioresource and Agriculture, Taiwan University

Microbial Electrocatalysis in Plant Bioelectrochemical Systems for Energy, Remediation and Biomass Valorization

Michael J. Bedzyk

Northwestern University, USA

X-ray Atomic Imaging of Redox-Induced Changes for an Oxide-Supported Monolayer Catalyst: MoOx / α -TiO₂(110)

Monica Olvera de la Cruz

Northwestern University, United States of America

Design and Control of Catalytic Shells

Marco Daturi

UNICAEN, ENSICAEN, CNRS, Laboratoire Catalyse et Spectrochimie, 14000 Caen, France

Understanding CO₂ hydrogenation catalysts via operando IR

Hiroyuki Miyamura

National Institute of Advanced Industrial Science and Technology (AIST)

Integrated Continuous-flow Organic Synthesis Enabled by Highly Active Heterogeneous Bimetallic Nanoparticle Catalysts

Maria Glushkova

DAVINCHI Clinic, Rostov State Medical University

Systemic changes in blood parameters in patients with acquired skin hyperpigmentations. Impact on the prognosis of therapy outcomes and the likelihood of relapses

Chuan-Fan Ding

Ningbo University, China

The analysis of the isomers of disaccharides and trisaccharides in different rice Using Ion Mobility Spectrometry-Mass Spectrometry technology

Oral Presentation

Yinghua Yan

Ningbo University, China

The chemical structure distinction of tripeptide Chiral Isomers by ion mobility spectrometry

Ruchi Sharma

ATLANT 3D, Denmark

Precision-Engineered Electrocatalysts via Direct Atomic Layer Processing for Enhanced Energy Conversion

Prof. Sam Hyhsu

City University of Hong Kong

Interface-Driven Hybrid Materials for Energy and Environmental Sustainability

Prof. Vladislav A. Sadykov

Boreskov, Boreskov Institute of Catalysis, Russia

Structured Catalysts of Biofuels Transformation into Syngas"

Osman Adiguzel

Firat University, Department of Physics, Elazig, Turkey

Dual Memory Characteristics and Twinning Detwinning Reactions Governing Reversibility in Shape Memory Alloys

Prof. Raman Singh	<i>Monash University, Australia</i>
Paulo Cesar Morais	<i>Catholic University of Brasilia, Brazil</i>
Prof. Ramin Yousefi	<i>R&D center of BMF Science Group, Münster, Germany</i>
Peng Gao	<i>Shanghai Advanced Research Institute, Chinese Academy of Sciences, China</i>
Omar Chaalal	<i>Abu Dhabi University, United Arab Emirates</i>
Zhengquan Li	<i>Zhejiang Normal University</i>
Pablo Guardia	<i>The Institute of Materials Science of Barcelona (ICMAB-CSIC), Spain</i>
Xumu Zhang	<i>Southern University of Science and Technology, China</i>
Jiixin Cai	<i>Xiamen University of Technology, China</i>
Rawia Nasria	<i>University of Tunis El Manar, Tunisia</i>
Hicham ATOUT	<i>Setif-1 University, Process Engineering Department, Algeria</i>
Jasim Mohammed Salman	<i>Al-Karikh University for Science, Energy and Environmental Science College</i>
Dr. Alaa Jasim Mohammed	<i>Al-Karikh University for Science, Energy and Environmental Science College</i>
Zikhona Tywabi-Ngeva	<i>Nelson Mandela University, South Africa</i>

Success in Developing CVD Graphene Coating on Mild Steel through Catalytic Process for Remarkable Corrosion Resistance

Zinc Oxide Nanoparticles: A Promising Platform for Photocatalysis

Advanced Semiconductor Heterostructures: Charge-Transfer Mechanisms and Photocatalytic Applications

Direct Carbon Dioxide Hydrogenation to Chemicals and Fuels via Heterogeneous Catalysis

Sweetening the Deal

Electronic structure adjustment for halide perovskite photocatalytic materials

Rational Design of High-Quality Nanomaterials for Catalysis: From Synthesis to Function

@ Catalysis: A New Horizon in Catalysis

Later Temporal Attention in Computer Aided Medical Diagnosis

Enhanced photocatalytic removal of dyes using molybdate catalysis

Enhanced photocatalytic degradation of methylene blue using Z-scheme heterojunction catalysts

Synthesis of Aquatic Plant Biochar Nono Adsorbent for Heavy Metals Removal from Industrial Wastewater

Removal of Nickel from Industrial Wastewater by Sunflower Husks Nanoparticle: Optimization Study

Synthesis and Application of a Gadolinium Tungstate/Pineapple Leaf Biomass Nanocomposite for Enhanced Photocatalytic Wastewater Treatment

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Poster Presentation

Dr. Wojciech Andrzejuk

*Faculty of Technical Sciences, John Paul
II University in Białá Podlaska,
Sidorska95/97, 21-500 Białá Podlaska,
Poland*

Hannachi Abdelhakim

University of Skikda, Algeria

Ju Hee Kim

Kyung Hee University, South Korea

**Bio-Inspired Hydrophobic Surface
Engineering of Vibropressed Concrete
Using Fatty Acid Modifiers**

**Conception of Natural Nutrients
solutions for Hydroponics.**

**Divergent urinary arsenic speciation
profiles between mothers and
preschool-aged children: shared dietary
environments as the principal
determinant of child arsenic exposure
in a Korean birth cohort**

End of the Conference



11 Waldeck Road, Luton, England, LU1 1HG

Email: support@pagicle.com

Tel: +44 (772)-355-2714

