

5<sup>th</sup> Edition of

# Chemistry World Conference

Theme: Chemistry:  
Innovations, Applications,  
and Sustainability

02-04<sup>TH</sup>  
JUNE  
2025

## Our OCMs



**YONG XIAO WANG**  
Albany Medical College,  
United States



**QIANG ZHANG,**  
Oak Ridge National Laboratory,  
United States



**HAIBO GE**  
Texas Tech University,  
United States



**HOSSAM A GABBARIN**  
Ontario Tech University  
Canada



**ANDY BROWN**  
Progressive Energy Ltd.  
United Kingdom



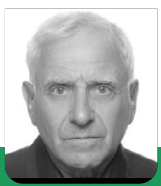
**STANISLAW DZWIGAJ**  
Sorbonne Universite, France



**SERGE COSNIER**  
Silesian University of Technology,  
Poland



**SERGEY SUCHKOV**  
Centro de Estudios de la  
Fotosynthesis Humana, Mexico



**ALEXANDER  
BAGATURYANTS**  
Russian Academy of Science,  
Russian Federation

## Scientific TOPICS

- Analytical and bio analytical Chemistry
- Medicinal Chemistry and Drug Discovery
- Nano science and Materials Chemistry
- Structural Chemistry
- Chemical Engineering
- Future Scope of Chemistry
- Catalysis and Reaction Engineering
- Biochemistry
- Organometallic Chemistry
- Electrochemistry
- Environmental and Green Chemistry
- Forensic and Clinical Chemistry
- Marine and Geo Chemistry
- Industrial Chemistry

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NH Villa Carpegna  
Via Pio IV, 6, 00165 Roma RM, Italy

## Keynote Presentation

**Hossam A Gabbar, Ontario Tech University, Canada**

Title: Advances in plasma-based waste treatment for sustainable communities

**Andy Brown, Progressive Energy Ltd, United Kingdom**

Title: Carbon capture and storage: The impact of impurities in CO<sub>2</sub> streams

**Stanislaw Dzwigaj, Sorbonne Universite, France**

Title: Chemical engineering of vanadium and tantalum zeolites for application in environmental catalysis

**Serge Cosnier, Silesian University of Technology, Poland**

Title: Nanostructured biodevices based on carbon nanotubes and glyconanoparticles for bioelectrocatalytic applications

**Sergey Suchkov, Centro de Estudios de la Fotosynthesis Humana, Mexico**

Title: Personalized and Precision Medicine (PPM) as a unique healthcare model through biodesign-inspired bio- and chemical engineering applications to secure the human healthcare and biosafety

**Thomas J Webster, Hebei University of Technology, China**

Title: Supramolecular nano chemistries: Fighting viruses, inhibiting bacteria and growing tissues

## Oral Presentation

**Fu Ming Tao, California State University, United States**

Title: The chemistry of atmospheric smog and aerosols: Critical roles of ammonia

**Hanna Basche, TRUMPF Hüttinger GmbH + Co. KG, Germany**

Title: Advanced power electronics driving plasma-based methane pyrolysis

**Ferran Acuna Pares, Universidad Internacional de la Rioja (UNIR), Spain**

Title: Disrupting TNF- $\alpha$  and TNFR1 interaction: Computational insights into the potential of D-Pinitol as an anti-inflammatory therapeutic

**Theodosios Geo Douvropoulos, Hellenic Naval Academy, Greece**

Title: An AlGaAs/GaAs quantum resonant-tunneling based model thermometer

**Pradip Kumar Das, Institute of Sustainability for Chemicals, Energy and Environment (ISCE2), Singapore**

Title: Aromaticity-driven electrocatalytic water splitting by pincer-type cobalt-based complex

**Silvia Elizabeth Asis, Universidad de Buenos Aires, Argentina**

Title: Design and synthesis of nitrogen heterocycles with antileishmanial activity: From natural products inspiration to 2D/3D QSAR models

**Gilberto Lucio Benedito de Aquino Aquino, UEG, Brazil**

Title: Quantification of alkaloids in ayahuasca similar seized material using qNMR

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**Mohamed Mahmoud, Saudi Aramco, Saudi Arabia**

Title: Formation of pseudo-scale due to incompatible field chemical at oil and gas field water pipelines

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**Stanislav Alexandra Alina, County Emergency Hospital Giurgiu, Romania**

Title: Testing the association between the UCP2 gene RS659366 with metabolic syndrome in patients with obesity from county emergency hospital Giurgiu Romania

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**Sergey Suchkov, Centro de Estudios de la Fotosynthesis Humana, Mexico**

Title: Antibody-proteases as a generation of unique biomarkers, biocatalysts, potential targets and translational tools towards nanodesign-driven biochemical engineering and precision medical practice

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**Xun Yuan, Qingdao University of Science & Technology, China**

Title: Surface engineering of ultrasmall metal nanoclusters for biomedical applications

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**Xiang Chaoyu, Ningbo Institute of Materials Technology and Engineering (NIMTE) of the Chinese Academy of Sciences (CAS), China**

Title: Homogeneous nucleation and growth for synthesizing highly efficient and stable perovskite quantum dots and their light-emitting diodes

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**Zhongsheng Guo, Northwestern A & F University, China**

Title: Chemistry and agriculture high quality development-case study

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**Angyang Yu, Zhejiang Sci-Tech University, China**

Title: A unified explanation for the mechanism of room-temperature superconductivity

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**Yao Lu, Southern University of Science and Technology, China**

Title: High-performance chalcogenide-based thermoelectric films and devices for self-powered flexible electronics

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**Pengju Wu, School of Energy and Power Engineering Jiangsu University, China**

Title: Current research progress in heavy metals poisoning of Selective Catalytic Reduction (SCR) denitration catalysts

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**Sujit Kumar Bandyopadhyay, Variable Energy Cyclotron Centre, India**

Title: Role of d electrons in multifunctional materials

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**S Nawazish Mehdi, Osmania University, India**

Title: Reduction in engine emissions by the use of chemical mixture of turmeric leaf oil and diesel blends

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**K Pandiarajan, Annamalai University, India**

Title: Use of <sup>1</sup>H NMR spectroscopy in finding unusual conformations of saturated six-membered heterocyclic compounds

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**Shree Niwas Chaturvedi, Centre for Aptitude Analysis and Talent Search, India**

Title: Hot atom chemistry - past, present and future

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**Indresh Singh, Vellore Institute of Technology, India**

Title: Development of new biocompatible and functionalized polyurethane sponges for efficient separation of oil from water emulsions

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## Tentative Program

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**Priyanka Singh, Vellore Institute of Technology, India**

Title: Impact of plastic pollution on agricultural soil: Analysing extracellular polymeric substances and morphological changes in microplastics with sludge amendments

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**Sarama Saha, AIIMS, India**

Title: Impact of SOST (Sclerostin) and LRP5 (low-density lipoprotein receptor-related protein- 5) genotype variant in early onset type 2 diabetes mellitus among young Indians

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**Komala Pandurangan, REVA University, India**

Title: Effects of ligands and counterions on Mn(III) spin crossover phenomenon

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**Ayushi Rana, Galgotias University, India**

Title: Toxicological trend in Prayagraj, Uttar Pradesh, India

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**Garnik Sargsyan, Institute of Chemical Physics NAS of Armenia, Armenia**

Title: Investigation of weak shock waves in reactors under oxidation of propane and experimental evidence for the presence of a saddle-type singular point in the reactor center

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**Fayez M Eissa, Aswan University, Egypt**

Title: Traditional chemistry makeup through green and sustainable methodologies

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**Ahmed Mourtada Elseman, CMRDI, Egypt**

Title: AgSCN as a new hole transporting material for inverted perovskite solar cells

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**Makarov Vladimir, Institute of Permafrost Science, Russian Federation**

Title: Migration of organic carbonic acids in the snow cover of permafrost landscapes of Eastern Siberia

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**Sarra Kitanou, ITU, Morocco**

Title: Application of response surface methodology to analyze the impact of operational parameters in membrane bioreactor

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**El Mokhtar El Hafidi, Chouaib Doukkali University, Morocco**

Title: Integrating conventional filtration and impedance spectroscopy for wastewater treatment

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**Othmane Essahili, Mohamed 6 Polytechnic University UM6P, Morocco**

Title: Photoluminescence lifetime stability studies of  $\beta$ -diketonate europium complexes based phenanthroline derivatives in Luminescence Solar Concentrators LSCs films

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**Nadia Anter, University of Sultan Moulay Slimane (USMS), Morocco**

Title: Allylation of cellulose microfibers for hydrosilylation with various hydrosilanes and hydrosiloxanes, and their application in Corn-Starch-Mimosa Tannin (CSMT) adhesive to improve particleboard properties

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**Hafida Zerigui, University of Oran1, Algeria**

Title: Synthesis of an oligomer derived from biobased composite and valorization of its antibacterial activities

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**Shawn Gouws, Nelson Mandela University, South Africa**

Title: Characterization of OER catalysts for green hydrogen production via PEM water electrolysis

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**Brij Bushan Tewari, University of Guyana, Guyana**

Title: Metal complexes in biology and medicine: The system aluminum (III)/chromium (III)/iron (III) – norvaline

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**John Godwin, Kogi State College Of Education, Nigeria**

Title: Nanochemistry: Current perspective and further prospects with Artificial Intelligence (AI)

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**Oral presentation slots are available**

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**Poster Presentation**

**Andria Slaughter, Oregon State University, NASA Oregon Space Grant Consortium, United States**

Title: Protein turnover in space by: Andria slaughter

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**Oneeba Tahir, Lahore University of Management Sciences, United States**

Title: Facile synthesis and application of Fe(NO<sub>3</sub>)<sub>3</sub>·9H<sub>2</sub>O modified walnut biochar for antimony removal from groundwater

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**Jekaterina Ivanova, Latvian Institute of Organic Synthesis, Latvia**

Title: Synthesis and biological evaluation of novel TrxR inhibitors as anti-cancer agents

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**Noga Bregman, Tel Aviv University, Israel**

Title: Chemistry Aware Lifting of Molecular Substructures using TNN

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**Gabriel Nicolai, University of Campinas - UNICAMP, Brazil**

Title: Comparative simulation of isopropyl palmitate synthesis in a microreactor with static elements and a batch reactor

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**Cristian Catalin Gavut, University of Medicine and Pharmacy Grigore T. Popa, Romania**

Title: Fundamental role and essential biomedical applications of chelated metal complex combinations in cancer therapy

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**Anamika Brahma, University of Delhi, India**

Title: CuFe<sub>2</sub>O<sub>4</sub>@Agar@Cu<sub>2</sub>O nanocatalyst: A sustainable approach for synthesizing 1,4-benzodiazepines and 5-aryl tetrazoles

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**Anshu Tyagi, Thapar Institute of Engineering and Technology, India**

Title: Moisture resistant K-loaded ZIF-8 catalyst for glycerol carbonate production

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**Mahmoud Mohmed Abd Rabuo Abd Elaziz, Zagazig University, Egypt**

Title: Unlocking the potential of starch: Trends and transformations in the derivatives market

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**Tarek Kamal Motawi, Cairo University, Egypt**

Title: Potential serum biomarkers for early detection of diabetic nephropathy

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**Doaa Ahmed Mohamed Ali Kospa, Mansoura University, Egypt**

Title: Yolk-shell structure of encapsulated iron oxide in PANI for highly efficient solar steam and electricity cogeneration

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**Amr Awad Ibrahim, Mansoura University, Egypt**

Title: Developed halophytes encapsulated PANI for highly efficient solar steam generation

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**Yahya Fahim Al Khafaji, University of Babylon, Iraq**

Title: Ring opening polymerization of new schiff base complexes derived from [Bis-(2,6 diisopropylaniline) furfural and 2,2/-oxydianiline

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**Sepehr Barzegar, Urmia University, Iran (Islamic Republic of)**

Title: Feasibility study of nicotine identification and adsorption by B12N12 nanostructure using computational methods

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**Aygun Aliyeva, Institute of Petrochemical Processes, Azerbaijan**

Title: Use of ultrasonic pretreatment in the reaction of liquid-phase aerobic oxidation of C10-C20 paraffin hydrocarbons in the presence of nickel salt of natural petroleum acids

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**Odwa Mapazi, Mintek, South Africa**

Title: Chemical profiling of metallurgical-grade silicon by ICP-OES after fabrication by aluminothermic reduction

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**Sama Ila Abubakar, Gombe State University, Nigeria**

Title: Mechanistic understanding of the transfer hydrogenation of ketones catalysed by imino-NHC Co(III) complexes by spectroscopic and analytical methods

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***Poster presentation slots are available***

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