

4<sup>TH</sup> EDITION OF INTERNATIONAL  
CONFERENCE ON

# GREEN CHEMISTRY AND RENEWABLE ENERGY

*Sustainable Chemistry: Green Approaches for a  
Greener Future*



## Our SCIENTIFIC COMMITTEE



**WEI ZHANG**  
University OF Massachusetts  
Boston, United States



**KEVIN KENDALL**  
Hydrogen United in  
Birmingham, United Kingdom



**HOSSAM A GABBAR**  
Ontario Tech University,  
Canada



**BING CHEN**  
Memorial University of  
Newfoundland,  
Canada



**PATRICK MARTIN**  
Unité Transformations &  
Agroressources, France



**HELENA BELCHIOR  
ROCHA**  
ISCTE-Instituto Universitário  
De Lisboa, Portugal



**CRISTIAN RAVARIU**  
Universitatea Politehnica  
Bucuresti, Romania

### Scientific TOPICS

- Green Nanotechnology
- Sources of Energy
- Environmental Chemistry and Pollution Control
- Waste reduction, waste capture and recycling
- Green and Eco Friendly Polymers and Material
- Material Science Engineering and Energy Efficient Materials
- Hybrid Renewable Energy Sources
- Green Sustainable Agriculture
- Impacts of Climate Change
- Sustainable Chemistry
- Photovoltaic Technology
- Chemical Batteries
- Biopolymer and Bioplastics
- Nuclear and Clean Energy Technologies
- Future Trends in Green Chemistry
- Green Synthesis
- Marine Energy

 **17-19**  
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# TENTATIVE PROGRAM

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## Keynote Presentations

**Wei Zhang**

University Of Massachusetts Boston,  
United States

Title : Recent developments in one-pot stepwise synthesis

**Kevin Kendall**

Hydrogen United In Birmingham,  
United Kingdom

Title: Green hydrogen by economic electrolysis

**Hossam A Gabbar**

Ontario Tech University, Canada

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

**Bing Chen**

Memorial University of Newfoundland,  
Canada

Title: Will be Updated Soon....

**Patrick Martin**

Unité Transformations & Agroressources,  
France

Title: Bioeconomics & Bioactive compounds from plants for material or biological applications

**Ichiro Imae**

Hiroshima University, Japan

Title: Green synthesis of graphene/silicon composite and its application to lithium-ion battery

**Helena Belchior Rocha**

ISCTE-Instituto Universitario De Lisboa,  
Portugal

Title: The link of green chemistry with community sustainable intervention

**Alexander A. Kamnev**

Institute of Biochemistry and Physiology  
of Plants and Microorganisms,  
Russian Federation

Title: Molecular spectroscopic in-situ monitoring of biotechnologically significant processes in agriculturally important bacteria

**Cristian Ravariu**

Universitatea Politehnica Bucuresti,  
Romania

Title: Biosensors for dopamine - receptors, transducers and nano-scale configurations

## Oral Presentations

**Zerong Wang**

University of Houston-Clear Lake,  
United States

Title: A Green desulfurization process

**Payam Shafie**

Laval University, Canada

Title: Theoretical investigation of ammonia decomposition to produce hydrogen-rich fuel

**Yitong Duan**

King's College London, United Kingdom

Title: Biosynthesis of Quantum Dots (QDs) in *Euglena gracilis*

**AnneMarie Clements**

Anne Clements & Associates Pty Limited,  
Australia

Title: Green chemistry to overcome Green Roof reluctance in urban Sydney

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<b>Naghmeh Nasiri</b> Monash University, Australia	Title: Transparent high barrier maltitol-cellulose nanocrystal bioplastics for packaging applications
<b>Vanessa Wegat</b> Fraunhofer IGB, TU Munich, Germany	Title: Robot-aided high-throughput engineering of FLS enzyme to establish in vivo synthetic C1 metabolism
<b>Maria Zakharova</b> Kemitek, Thetford Mines, Canada	Title: Synthesis of new forest biomass-based epoxy materials
<b>Clement Chastrette</b> Centre d'Application et de Traitement des Agroressources (CATAR), France	Title: The Atlantic case in SEA2Land project: Optimization of the fractionation by twin-screw extrusion of fish by-products for the production of biobased fertilisers and fish oil
<b>Alexis Spalletta</b> Unite Transformations & Agro-ressources, France	Title: Toward biocatalyzed carbohydrate-based surfactants synthetic strategy: Optimization of biocatalyzed multi-step onepot synthesis of a biosourced lipophilic moiety
<b>Luis Eduardo Ramírez Cardenas</b> Toulouse INP-ENSIACET, France	Title: Screening of solvents for perovskite solar cells using reverse engineering approach
<b>Oscar Martinez Rico</b> University of Vigo, Spain	Title: Circular solutions for textile sustainability: Water and resource conservation
<b>Elsa Justino</b> ISCTE-Instituto Universitario De Lisboa, Portugal	Title: Converging paths: Green Chemistry and Human Rights Advocacy
<b>Arena Maria Cristina</b> Università di Pavia (IT) , Switzerland	Title: Recuperation systems for fluorinated gas at the CERN LHC experiments
<b>Alexander A. Kamnev</b> Institute of Biochemistry and Physiology of Plants and Microorganisms, Russian Federation	Title: Vibrational spectroscopy techniques in analysing biogenic selenium nanostructures
<b>Yoshinori Mishina</b> Individual Researcher, Japan	Title: Are potential reductions in CO2 emissions via hybrid electric vehicles actualized in real traffic? The case of Japan
<b>Ofir Degani</b> Migal - Galilee Research Institute, Israel	Title: 6-Pentyl- $\alpha$ -Pyrone, a strong antifungal compound, against the maize late wilt pathogen, magnaporthiopsis maydis
<b>Osman Adiguzel</b> Firat University, Turkey	Title: Thermomechanical processes and lattice reactions in shape memory alloys
<b>Jiajian Gao</b> Institute of Sustainability for Chemicals, Energy and Environment , Singapore	Title: Sustainable heterogeneous (electro)catalysis: Understanding for designing
<b>Yarub Al Douri</b> University Of Sharjah, United Arab Emirates	Title: Structural investigation of quaternary alloys
<b>Chung Yu Guan</b> National Ilan University, Taiwan	Title: Plant microbial fuel cells and biorefinery technology for climate change, global warming, energy shortages, and environmental problems

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<b>Alena Kharissova</b> Universidad Autonoma De Nuevo Leon, Mexico	Title: Nature's solutions, engineered: Biomimetic design of antifouling materials for artificial reefs using green chemistry approaches
<b>Sara Saldarriaga Hernandez</b> Tecnologico De Monterrey, Mexico	Title: From waste to wealth: A circular bioeconomy approach for the brewing industry through brewery spent grains valorization
<b>Danay Carrillo Nieves</b> Tecnologico De Monterrey, Mexico	Title: Sustainable biodiesel production and high-value alginate extraction from invasive sargassum seaweeds: Unlocking economic opportunities from waste
<b>Suresh C Ameta</b> PAHER University, India	Title: Photocatalysis: A Green chemical route for wastewater treatment
<b>Ashanendu Mandal</b> University of Calcutta, India	Title: Adsorptive removal of toxic phenol from wastewater using biological and industrial solid wastes
<b>Pushkar Shejwalkar</b> ZDHC Foundation, India	Title: Input management for sustainable chemistry
<b>Chandra Mohan</b> K R Mangalam University, India	Title: Function of heterocyclic complexes as green material in promoting sustainable chemistry
<b>Rajesh Kumar</b> Babasaheb Bhimrao Ambedkar Bihar University, India	Title: Biocatalyst novozyme-435 catalysed synthesis of modified nucleosides
<b>Sunita Varma</b> Banaras Hindu University, India	Title: Land use land cover change for Dehradun District of Uttarakhand from 2000-2020
<b>Rahul Hajare</b> Sandip University, India	Title: Molar characterization and analytical UPLC method development of matrix impurity, disregards impurity, specified impurity associated undetectable impurity of laboratory drug isatin
<b>Amarta Kumar Pal</b> North-Eastern Hill University, India	Title: Graphite oxide is an efficient green catalyst and support material In organic synthesis
<b>Aswathy R</b> TKMIT, KOLLAM, India	Title: Synthesis, spectral characterization and biological studies of some transition metal complexes of an azo dye derived from phthalylhydrazide
<b>Kashyap L Mokariya</b> Government Engineering College Valsad, India	Title: Selection, sizing, establishing solar PV plant for domestic, commercial use, EV charging
<b>Sasmita Chand</b> Manipal Academy of Higher Education, India	Title: Effective strategies for sustainable waste handling in the textile and apparel sector: A comprehensive review
<b>Bhawna Rawat</b> Institute of Nano Science and Technology, India	Title: Utilizing the undesirable oxidation of lead-free perovskite for photocatalytic C(sp <sup>3</sup> )nH activation: Unraveling the serendipity

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<b>Raina Sharma</b> Institute of Nano Science and Technology, India	Title: An investigation of the phosphate functionalization, kinetics, and echanistic aspects of phosphorylated sporopollenin as sustainable catalyst for selective 5- hydroxymethylfurfural formation in water
<b>Khushal Matai</b> School of Planning and Architecture, India	Title: Future of hydrogen hybrid renewable systems in Indian cities
<b>Akansha Chaturvedi</b> Indian Institute of Technology Ropar, India	Title: Glucose oxidation assisted ammonia production via electrochemical dinitrogen reduction over CoWO <sub>4</sub>
<b>Shivendra Singh</b> Indian Institute of Technology, India	Title: Metal-free photocatalysis at charged aqueous interfaces: Boosting the photocatalytic oxidative coupling of arylamines to azoaromatics under ambient conditions
<b>Pankaj Dubey</b> Footwear Design and Development Institute, India	Title: Performance & emission assessment of optimized injection pressure and compression ratio on vcrc using dual biofuel
<b>Jinsong Wu</b> Guilin University Of Electronic Technology, China	Title: Environmental sustainability and intelligence as well as general green technologies
<b>Zhongsheng Guo</b> Northwest A&F University, China	Title: Photovoltaic power generation and sandstore control
<b>Kashan Bashir</b> Tsinghua University, China	Title: Chemocatalytic conversion of biomass-derived glucose and cellobiose to glucaric acid without carbon-carbon bond cleavage
<b>Jie Yang</b> Minjiang University, China	Title: The effect of additives (sea salt & Na <sub>2</sub> CO <sub>3</sub> ) on hydrothermal liquefaction of biomass for biocrude production and intelligent prediction
<b>Wei Zhou</b> Qilu University of Technology, China	Title: The synthesis and modification of g-C <sub>3</sub> N <sub>4</sub> -based materials for photocatalytic applications
<b>Liu Zhile</b> Tianjin University of	Title: Carbon industry transformation of light industry enterprises
<b>Temoor Ahmed</b> Xianghu Laboratory, China	Title: Silicon nano-biostimulants alleviate cadmium toxicity in bayberry ( <i>Myrica rubra</i> ) by modulating rhizosphere soil metabolites and microbial community
<b>Ji Min Lv</b> Xianghu Laboratory, China	Title: Ultrasonic-assisted nanoencapsulation of proanthocyanidins in liposome delivery system to improve the biostability and bioavailability of proanthocyanidins
<b>Muhammad Noman</b> Zhejiang Academy of Agricultural Sciences, China	Title: Bio-engineered silica nanoparticles potentiate transcriptional reprogramming to suppress fusarium wilt and bacterial fruit blotch in watermelon ( <i>Citrullus lanatus</i> L.
<b>Yasir Hamid</b> Zhejiang University, China	Title: Novel thiol-grafted composite of chitosan and rice straw biochar (TH@CT-BC): A two-step fabrication for highly selective adsorption of cadmium from contaminated water

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<b>Yangyang Guo</b> Institute of Process Engineering Chinese Academy of Sciences, China	Title: Interactive adsorption mechanism and product distribution of impurity gases on CO <sub>2</sub> adsorption over amine-grafted ZSM-5/SBA-16 adsorbent
<b>Asiful Hossain Seikh</b> King Saud University, Saudi Arabia	Title: Effect of micaceous iron oxide (MIO) and nano crystalline Al on the electrochemical behavior of aliphatic amine cured epoxy coating
<b>Hisham</b> King Abdulaziz University, Saudi Arabia	Title: Investigation of physical properties and carbon dioxide solubility in tetramethylammonium bromide and tetraethylammonium bromide ionic liquids solutions using multi-non-linear regression analysis
<b>Jenifer Robinson</b> Indian School Alwadi AL Kabir, Oman	Title: Sustainable chemistry in education
<b>Mohamed Bouzelmad</b> Ibn Zohr University, Morocco	Title: Experimental study of the improvement of the electrical efficiency of a photovoltaic panel using a phase change material
<b>Intissar Loughlaimi</b> University Hassan First, Morocco	Title: Exploring the effectiveness and variables of innovative physicochemical methods for wastewater treatment: Focus on coagulation/flocculation
<b>Alami Soufiane</b> University V Mohammed, Morocco	Title: The inoculation with ensifer meliloti sv. rigiduloides improves the growth of robinia pseudoacacia under lead-stress
<b>Adou Kouakou Eric</b> Université Nangui Abrogoua, Cote d'Ivoire	Title: Anaerobic mono-digestion of wastewater from the main slaughterhouse in Yamoussoukro (Côte d'Ivoire): Evaluation of biogas potential and removal of organic pollution
<b>Kaoutar kaddouri</b> Mohammed V University of Rabat, Morocco	Title: Different solubilizing phosphate bradyrhizobium spp. from symbiovar genistearum nodulate the endemic retama dasycarpa in the Maamora Forest, Morocco
<b>Zoubida Belmahi</b> Institute agronomic & veterinary IAV HASSAN II/MAROC, Morocco	Title: Study of genetic diversity of thymus satureioides in based on morphological traits and molecular markers ISSR
<b>Benjeddi Abir</b> Mohammed V university, Morocco	Title: Chemical diversity of the genus mentha : Promoting green chemistry with nature's diversity
<b>Victor Idankpo Ameh</b> University of Johannesburg, South Africa	Title: Bioenergy potential of cyperus esculentus (Tigernut) residual as a second-generation feedstock
<b>Ernestine Atangana</b> University of the Free State, South Africa	Title: Effectiveness of biopolymer adsorbent treatment method for small medium winery industry in South Africa
<b>Mpho Qhubu</b> University of Pretoria, South Africa	Title: Aquatic toxicity of heavy metals from pretoria manholes and apies river and their impact on human health
<b>Bashayer</b> Ministry of Health, Kuwait	Title: Green chemistry in pharmacy: Benefits, methods, and tools of assessment Green chemistry and its implementation in pharmacy
<b>Ahmad Omar Hasan</b> Alhusseinbintalal University, Jordan	Title: Extracted handal seed oil ( Citrullus Seeds) used as biodiesel fuel in internal combustion engines



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<b>Jana Pisk</b> University of Zagreb, Croatia (Hrvatska)	Title: Mo complexes derived from simple acyl-hydrazones as green catalysts in oxidation reactions
<b>Lorena Salazar Gamez</b> Universidad Mariana, Colombia	Title: Natural Organic Matter (NOM), turbidity removal and biodegradability behavior by coagulant solution based on M.Oleifera in water treatment
<b>Julius Kewir</b> University of Dschang, Cameroon	Title: Biodiesel feed stock potential and biochemical properties of defatted seeds of some tropical wild oleaginous plants.
<b>Naomi Gaila</b> Adamawa State College of Education, Nigeria	Title: Bioavailability and bioaccessibility of soil, spinach and onion leaves in some selected areas of Mubi North Local Government Adamawa State, Nigeria
<b>Shumaila Kiran</b> Government College University, Pakistan	Title: Green synthesis and characterization of ZnO/NiO nanohybrid for mitigation of basic brilliant flavine Y-40 dye: An environmental clean strategy

***Oral Presentation slots are available***

## Poster Presentations

<b>Fabre Jean Francois</b> LCA-ENSIACET/INPT-INRAE, France	Title: SLCA methodology applied to bio-based fertilizers from fisheries/aquaculture waste in the scope of the Sea2Land Project
<b>Dinesh Chandra Joshi</b> Central Arid Zone Research Institute, India	Title: Sustainable management of sodic water irrigated arid soils: Issues and strategies
<b>Abid Ullah</b> University of Science and Technology, Korea, South Korea	Title: MnO <sub>2</sub> nanotubes as efficient catalysts for metal-air battery advancements: Synthesis, applications, and performance
<b>Yasser Alassmy</b> King Abdulaziz City for Science and Technology (KACST), Saudi Arabia	Title: A green/sustainable organocatalytic pathway for the preparation of esterified supercritical CO <sub>2</sub> -dried potato starch products
<b>Agnes Pholosi</b> Vaal University of Technology, South Africa	Title: Applications of core shell magnetic nanoparticles for the removal of emerging contaminants from water
<b>Amel Asselah</b> University of M'Hamed BougaraBoumerdes, Algeria	Title: Sustainable biodiesel production via transesterification of waste frying oil

***Poster Presentation slots are available***