

ORGANIZED BY



SCIENTIFIC PROGRAM

GLOBAL SUMMIT ON  
RENEWABLE AND  
SUSTAINABLE ENERGY



28-29  
NOV 2024



HOTEL VILA GALÉ,  
PORTO

Av. de Fernão de Magalhães 7, 4300-190 Porto, Portugal



GLOBAL SUMMIT ON  
**RENEWABLE AND  
SUSTAINABLE ENERGY**

REGISTRATIONS (09:00-09:30)

OPENING REMARKS (09:30-10:00)

KEYNOTE FORUM (10:00-11:30)

**10:00-10:30** Green Hydrogen Transport Value Chain: Movable Sustainable Solution for Large Construction Sites, applicable for Taxi Ranks, Bus Terminals and Truck Depots, including Campuses and Airport Ground Transportation

Vladimir Linkov, University of the Western Cape, South Africa

**10:30-11:00** Estimation of ripening timing of red wine grape varieties based on phenomenological models

Ilie Bodale, Ion Ionescu de la Brad Iasi University of Life Science, Romania

**11:00-11:30** Renewable Materials Development

André Ferreira Costa Vieira, University of Beira Interior, Portugal

REFRESHMENT BREAK &amp; GROUP PHOTO (11:30-11:50)

TECHNICAL SESSION-I

**11:50-12:15** Assessing Stormwater Pond Resilience to Climate Change and Rising Groundwater Levels Using Integrated Modeling

Rahman Davtalab, Singhofen-Halff Inc., USA

**12:15-12:40** Use of Hydrogen in compression ignition engines: techniques for reducing NOx Emissions

Javier Serrano Reyes, University of Seville, Spain

**12:40-13:05** The expected environmental impact of the King Abdulaziz Public Transport Project in Riyadh on the level of air quality

Mohammed Saad Almogarry, King Saud University College of Humanities & Social Sciences, Saudi Arabia

LUNCH @ RESTAURANT (13:05 - 14:00)

**14:00-14:25** A Nature-Based Tool to design vegetation barriers along road infrastructure to contain anthropogenic atmospheric Particulate Matter: characterization of leaf functional traits

Alessia Postiglione, University of Naples Federico II, Italy

**14:25-14:50** Asymmetric Energy Harvesting Strategy for Asymmetric Impedance Devices: Triboelectric Nanogenerator

Jiwon Jeong, Gyeongsang National University, South Korea

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14:50-15:15 **Success and challenge for the use of renewable energy in Brazil**  
Reinaldo Silveira, National Meteorological Institute, Brazil

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15:15-15:40 **Circular economy - trends of evolution in a group of Eastern European countries**  
Carmen Stoenoiu, Technical University of Cluj-Napoca, Romania

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REFRESHMENT BREAK (15:40 - 16:00)

POSTER VIEWING (16:00 - 16:25)

Poster - 1 **Enhanced low-temperature CO<sub>2</sub> methanation over Ni-based catalyst: Effect of support and reaction mechanism**  
Cristina Italiano, CNR-ITAE, Italy

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Poster - 2 **Present and future of climate change in latin america (LATAM) and Colombia, analytical perspectives from developing countries**  
Diego Alejandro Garcia Rubio, Minuto de Dios Uniminuto University, Colombia

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Poster - 3 **Materials for Energy Storage Device - Na-based Batteries**  
Claudia d'urso, CNR-ITAE, Italy

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Poster - 4 **Automated Data Analysis for Lithium Ion Battery Aging Studies**  
Florian Stroebl, Munich University of Applied Sciences, Germany

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Poster - 5 **Analytical performance of TXRF and ICP-MS in the detection of arsenic and lead in mussels**  
Nina Nicoleta Lazar, Dunarea de Jos Univeristy of Galati, Romania

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Poster - 6 **Monitoring the presence of pesticides in various fish species from the Danube River**  
Stefania Adelina Milea, Dunarea de Jos Univeristy of Galati, Romania

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Poster - 7 **Analysis of pharmaceutical residues from the Danube river in the period 2021-2023**  
Calmuc Valentina Andreea, Dunarea de Jos Univeristy of Galati, Romania

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**Poster - 8**  
**Evaluation of the microplastics occurrence in the predeltaic and deltaic sector of the Danube River**  
Calmuc Madalina, Dunarea de Jos Univeristy of Galati, Romania

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**Poster - 9**  
**Bioaccumulation Capacity of Heavy Metals in Water, Sediment and Ichthyofauna from the Predeltaic area of the Lower Danube, Romania**  
Topa Maria Catalina, Dunarea de Jos Univeristy of Galati, Romania

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**Poster - 10**  
**The influence of climate changes on the quality of water and sediments in the Sulina branch of the Danube River**  
Catalina Iticescu, Dunarea de Jos Univeristy of Galati, Romania

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## TECHNICAL SESSION-II

**16:25-16:50**  
**Biological responses from environmental pollution by heavy metals in the "land of fires" (Italy) assessed using the biomonitor liverwort species Lunularia cruciata L. (Dum)**  
Viviana Maresca, University of Rome "Link Campus", Italy

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**16:50-17:15**  
**Sustainable Recycling of Bio-Based Composite Polyurethane Foams Using Green Chemicals**  
Federica Recupido, National Research Council of Italy, Italy

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**17:15-17:40**  
**Encyclopedia of Bioanalytical Methods for Bioavailability and Bioequivalence Studies of Pharmaceuticals**  
Wojciech Paprocki, SGH Warsaw School of Economics, Poland

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**17:40-18:05**  
**Respirometric Evaluation of Biodegradability of PLA/Micronized Cellulose Composite Pellets**  
Joana Curto, University of Beira Interior, Portugal

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**18:05-18:25**  
**Screening of heavy metal responsive biomarkers for the creation of biosensors for environmental pollution**  
Adriana Basile, University of Naples Federico II, Italy

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## PANEL DISCUSSIONS

## END OF DAY - 1

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**VIRTUAL PRESENTATIONS**

DAY-2 (NOVEMBER 29)

CENTRAL EUROPEAN TIME (10:00 - 16:00)

- 09:00-09:25** **ESG and project management**  
Ibrahim Abdallah, Torrens University, Australia
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- 09:25-09:50** **Theoretical energy conversion efficiency which has light absorption layer of nm-scale dopant rich region located in depletion layer**  
Isamu Jonoshita, Japan
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- 09:50-10:15** **Advancement of Environmentally Friendly Nano Catalysts for Efficient Dye Degradation in Water**  
Suranjana V. Mayani, Marwadi University, India
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- 10:15-10:45** **Keynote: The Role of Cooperative Approach in Enhancing Energy Efficiency of Urban Traffic Systems**  
Miroslav Vujić, University of Zagreb, Croatia
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- 10:45-11:15** **Keynote: IoT Platform for Sustainable Monitoring**  
Martin Zagar, RIT, Croatia
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- 11:15-11:40** **Global Population: from Super-Malthus behavior to Doomsday Criticality**  
Aleksandra Drozd-Rzoska, Polish High Pressure Institute, Poland
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- 11:40-12:05** **Cybersecurity Strategies for Hydrogen-Based Smart Grids**  
Ayat Allah Bouramdane, International University of Rabat (IUR), Morocco
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- 12:05-12:30** **Comprehensive investigation of material properties and operational parameters for enhancing performance and stability of FASnI<sub>3</sub> based perovskite solar cells**  
Rania Saleh Alqurashi, Al Baha University, Saudi Arabia

GLOBAL SUMMIT ON  
**RENEWABLE AND  
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EUROPEAN  
TIME

## DAY-2 (NOVEMBER 29)

**Trends in Digital Twin Framework Architectures for Smart Cities: a case study in Smart Mobility**

12:30-12:55

Christos Antonopoulos, University of Peloponnese, Greece

**Wind energy and the Built Environment**

12:55-13:20

Abdel Rahman Elbakheit, King Saud University, Saudi-Arabia

**Pesticides pollution: Ecotoxicological Studies and Environmental Risk Assessment**

13:20-13:45

Davide Di Paola, University of Messina, Italy

**Climate change reporting - the new frontier**

13:45-14:10

Petra Dilling, SUNY Empire State University, USA

**Monitoring threats to wildlife using predictive analyses and visualizations from remote sensing data**

14:10-14:35

Kristen Bellisario, Purdue University, USA

**Rapid Evaluation of the Effects of Policies Corresponding to Air Quality, Carbon Emissions and Energy Consumption: An Example from Shenzhen, China**

14:35-15:00

Li Fen, China Shenzhen Institute of Building Research, China

**Linking timescale-dependent Antarctic sea ice kinematic observations to ice thickness**

15:00-15:25

Tian R. Tian, University of Wisconsin-Madison, USA

CONFERENCE CONCLUDES

## UPCOMING CONFERENCES - APRIL, 2025 VIENNA, AUSTRIA

Name of the conference	Contact Details
Ophthalmology & Vision Research	Dr. Vanga director@unitedforum.uk +44 7404141173
Otorhinolaryngology and Head & Neck Care	Arha Tamyra otolaryngology@urforum.org +44 7404141173
Dentistry and Oral Health	Mary Jane maryjane@urforum.org +447958436762
Breast and Cervical Cancer	James Mathew Jamesmathew@unitedforum.uk +44 7867919466
Reproduction, Fertility and Gynecology	Zara Helene zara@unitedforum.uk +44 7867919466

## UPCOMING CONFERENCES - JULY, 2025 ROME, ITALY

Name of the conference	Contact Details
Dermatology, Cosmetology and Aesthetic Surgery	Dr. Aadri Livia rajitha@urforum.org 44 7404141173
Ageing and Gerontology	Ryan Joseph ryanjoseph@urforum.org +44-7867919466
Cardiology and Cardiovascular Medicine	James Anderson jamesanderson@urforum.org +44 7404141173
Endocrinology, Metabolism, and Molecular Medicine	Sarah Jones sarahjones.urf@gmail.com +44 7867 919466

# UPCOMING CONFERENCES - JULY, 2025 PARIS, FRANCE

Name of the conference	Contact Details
<b>2D Materials and Applications</b>	<b>Dr. Vanga</b> <b>director@unitedforum.uk</b> <b>+44 7404141173</b>
<b>Chemistry and Chemical Engineering</b>	<b>Joseph Harris</b> <b>josephharris@urforum.org</b> <b>+44 7867 919466</b>
<b>Earth and Geological Sciences</b>	<b>Jack Harrison</b> <b>jackharrison@unitedforum.uk</b> <b>+44 7867 919466</b>
<b>Pediatrics and Neonatal Care</b>	<b>Ryan Cooper</b> <b>pediatriccongress@urforum.org</b> <b>+44 7404141173</b>
<b>Nursing &amp; Patient Care</b>	<b>Amelia</b> <b>ameliajones@unitedforum.uk</b> <b>+447867919466</b>

JULY 2024

**21-22**

PARIS, FRANCE

Chemistry &  
Chemical  
Engineering

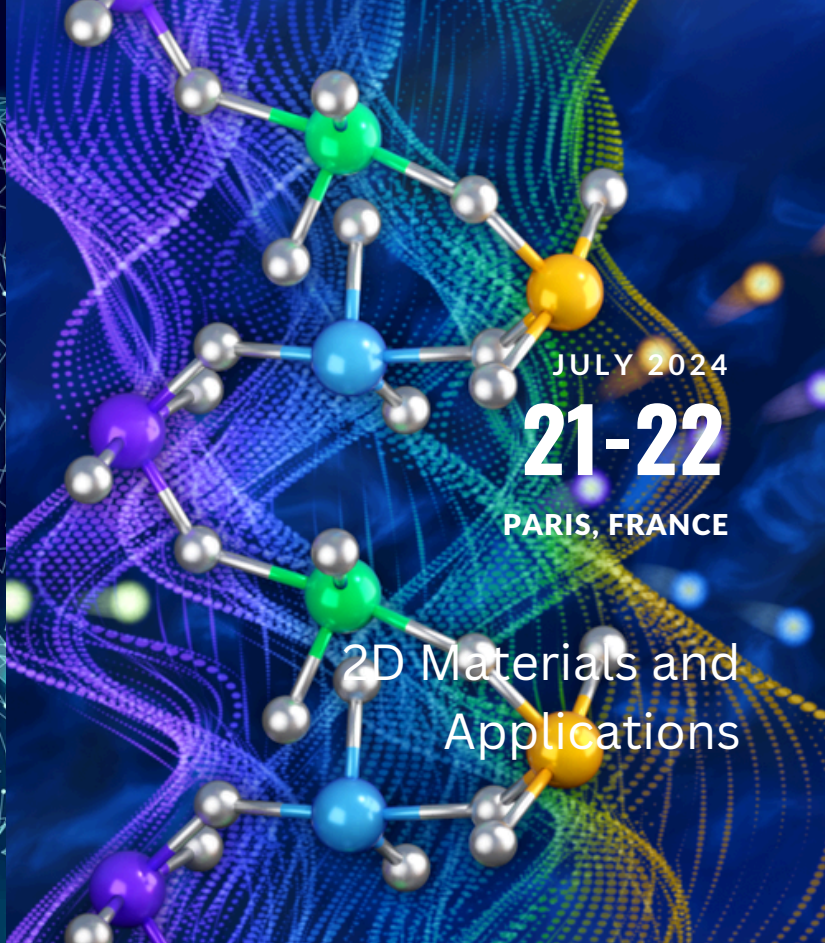


JULY 2024

**21-22**

PARIS, FRANCE

2D Materials and  
Applications



SEP 2024

**18-19**

BARCELONA,  
SPAIN

Climate Changes and  
Sustainability

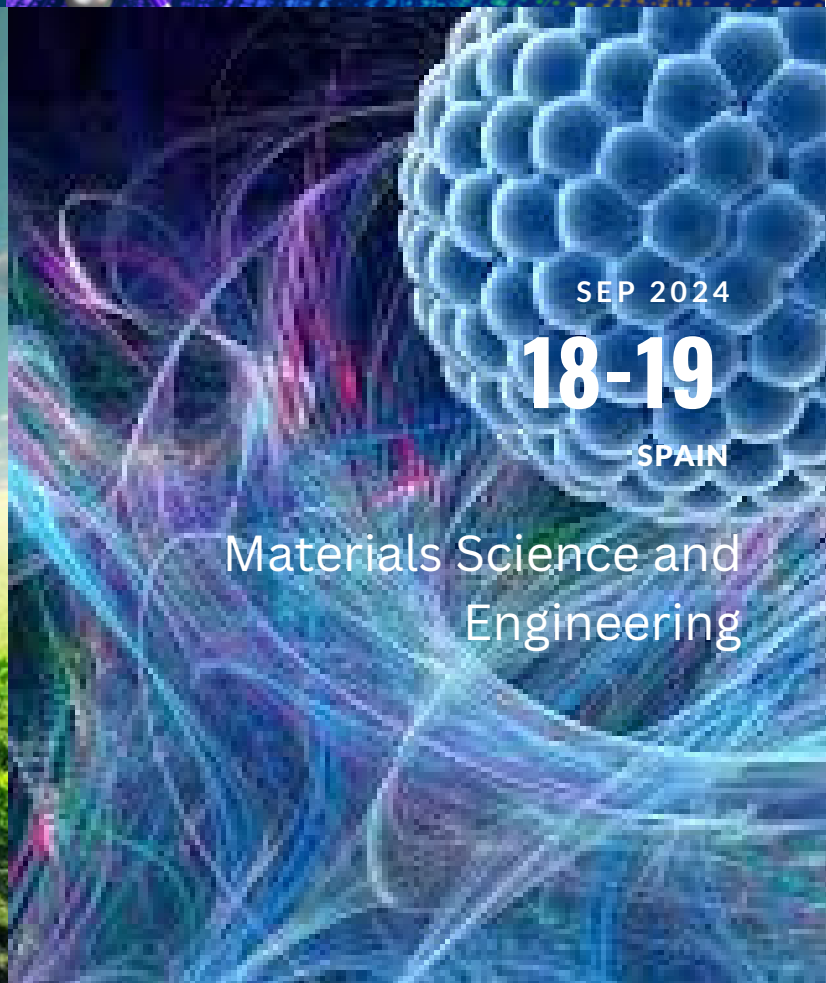


SEP 2024

**18-19**

SPAIN

Materials Science and  
Engineering



For all Conference Enquires regarding Abstract Submission, Registration :

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