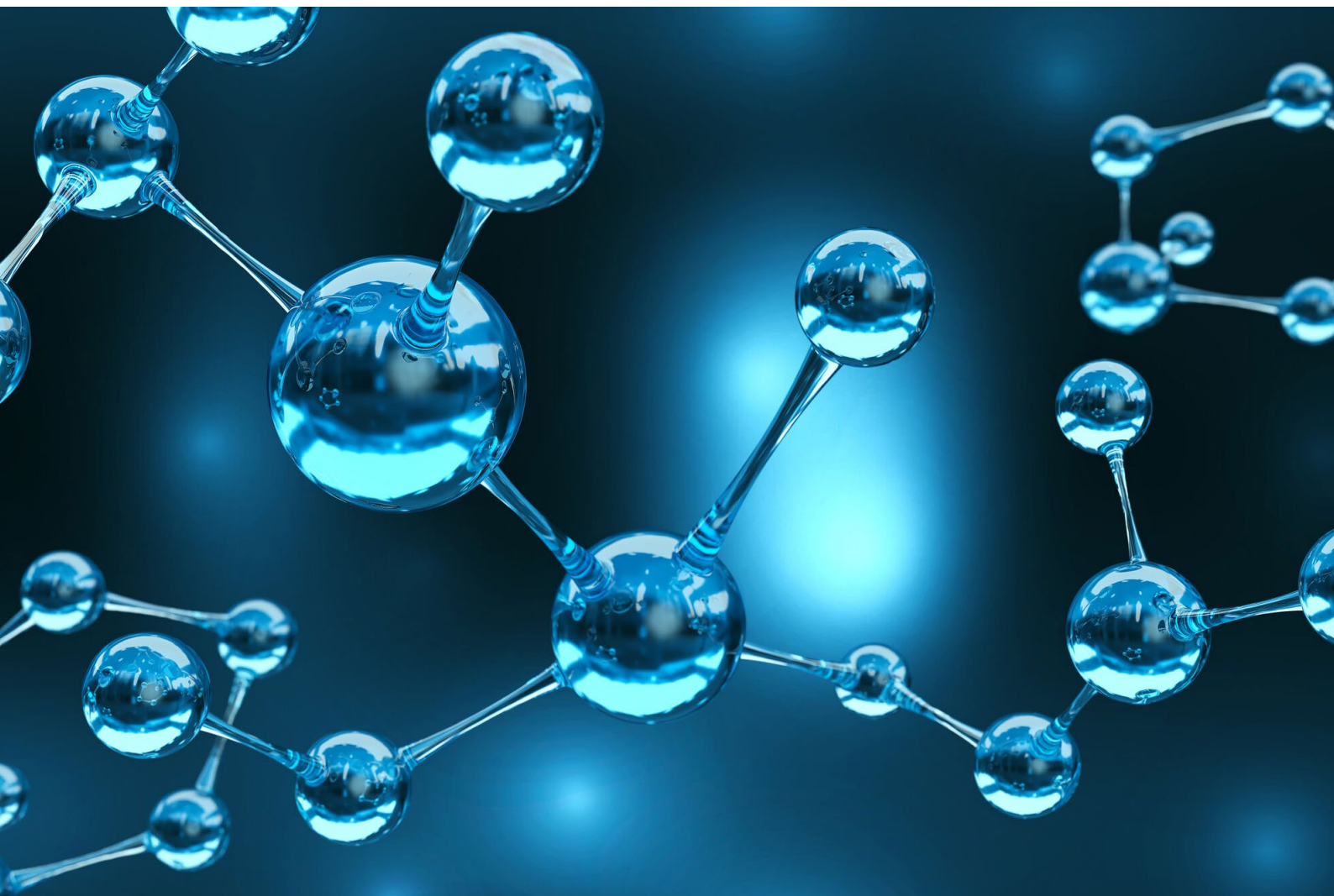


# TENTATIVE PROGRAM

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International Connect & Expo on  
**MATERIAL SCIENCE AND  
ENGINEERING**

April 28-30, 2025 | Rome, Italy



# Day 1 | Monday | April 28, 2025

REGISTRATIONS: 08:30-09:00

INTRODUCTION: 09:00-09:30

09:30-10:10	<p>Title: <b>Electrosynthesis of NH<sub>3</sub>: Challenges and Perspectives</b></p> <p><b>Jieshan Qiu</b>, Beijing University of Chemical Technology, China</p>	P
10:10-10:50	<p>Title: <b>New Technologies to Recover Strategic Metals from Waste Batteries</b></p> <p><b>Elza Bontempi</b>, University of Brescia, Italy</p>	P
10:50-11:05	COFFEE BREAK	
11:05-11:45	<p>Title: <b>Perovskite – a Wonder Material for Solar Cells</b></p> <p><b>Frank Shengzhong Liu</b>, Dalian Institute of Chemical Physics, China</p>	P
11:45-12:15	<p>Title: <b>Magnetic Characterization of Materials via AC Magnetic Susceptibility: Mathematical Modeling and Experimental Realization on High-TC Superconductors and Soft Ferromagnets</b></p> <p><b>Dimosthenis Stamopoulos</b>, National and Kapodistrian University of Athens, Greece</p>	K
12:05-12:30	<p>Title: <b>Hydrogen-Induced Material Degradation and Prevention Methods</b></p> <p><b>Alicja Krella</b>, Polish Academy of Sciences, Poland</p>	I
12:30-12:55	<p>Title: <b>On the Effect of the Synthesis and Processing Conditions on Sintering Behaviour of High-Entropy Fluorite Oxides (HEFOs)</b></p> <p><b>Luca Spiridigliozi</b>, University of Cassino and Southern Lazio, Italy</p>	I
12:55-13:00	PHOTO SESSION	

13:00-14:00	LUNCH BREAK	
14:00-14:25	Title: <b>Disruption of Cellulose Nanocrystals Self-Assembly in Chiral Environment</b>	
	<b>Rachel Yerushalmi-Rozen</b> , Ben-Gurion University of the Negev, Israel	
14:25-14:50	Title: <b>Pillared-Layer Metal-Organic Frameworks (MOFs) for Photodegradation of Methyl Orange in Wastewater</b>	
	<b>Tesfaye Haile Habtemariam</b> , Wolaita Sodo University, Ethiopia	
14:50-15:15	Title: <b>MOF-Derived Nanocarbons: Synthesis, Properties, and Applications</b>	
	<b>Boris Ildusovich Kharissov</b> , Autonomous University of Nuevo León, Mexico	
15:15-15:40	Title: <b>Modelling of Selective Catalytic Hydrogenation of Vegetable Oil by Deterministic Kinetics and Stochastic Simulations</b>	
	<b>Vignesh D</b> , Birla Institute of Technology, India	
15:40-16:05	Title: <b>Fabrication and Characterization of Sustainable Nonwovens and Composites from Cellulosic Biowastes</b>	
	<b>K.Z.M. Abdul Motaleb</b> , Klaipeda University, Lithuania	
16:05-16:20	COFFEE BREAK	
16:20-16:45	Title: <b>Development of Electromagnetic Wave Absorbers for Mobile Communication with Printed Meta-Surfaces</b>	
	<b>Jinbong Kim</b> , Korea Institute of Materials Science, South Korea	
16:45-17:10	Title: <b>Exploring Laser Impact Welding for Joining Magnesium and Titanium in Advanced Lightweight Applications</b>	
	<b>Jessica Rawles</b> , North Carolina A&T State University, USA	

17:10-17:35	Title: <b>Understanding Corrosion Resistance in Magnesium Alloys: Insights from Scanning Kelvin Probe Force Microscopy</b> Svitlana Fialkova, North Carolina A&T State University, USA	
17:35-18:00	PANEL DISCUSSION & GROUP PHOTO	
END FOR DAY 1		

## Day 2 | Tuesday | April 29, 2025

09:30-09:55	Title: <b>Halide Perovskite Thin Films for Neutron Detection</b> Leunam Fernandez-Izquierdo, University of Texas at Dallas, USA	
09:55-10:20	Title: <b>Brackish Water Treatment with Solar Water Evaporator Using an Organic Framework Material for Tropical Regions</b> Vikash Kumar Chauhan, Institute of Technology Bombay, India	
10:20-10:45	Title: <b>Photocatalytic Water Splitting Towards Hydrogen Production</b> Rahel Abera, University of Adama Science And Technology, Ethiopia	
10:45-11:00	COFFEE BREAK	
11:00-11:25	Title: <b>Development and Analysis of SBA-15 Supported Catalysts for Aviation Fuel Synthesis</b> Thaieny Zucolotto, University of São Paulo, Brazil	
11:25-11:45	Title: <b>The Influence of Slurry Erosion on the Changes in Surface Hardness and Roughness of Various Steels</b> Marta Buszko, Polish Academy of Sciences, Poland	PP
11:45-12:00	Title: <b>Enhancing the Heat Transfer Efficiency of a Solar Still Desalination Unit by the Utilization of Cobalt Ferrite Coating for Sustainable Wastewater Treatment</b> Kousik Pradhan, Institute of Technology Bombay, India	PP

12:00-12:25	Title: <b>Design and Preparation of Mechanism-based Catalysts for Oxygen Evolution Reaction</b> Na Yao, Wuhan Textile University, China	
12:25-12:50	Title: <b>Exploring the Site Dependent Luminescence Mechanism in Dy Doped <math>Sr_3(PO_4)_2</math> Using DFT+U Calculations</b> Parvathy Mallika, Cochin University of Science and Technology (CUSAT,) India	
12:55-14:00	LUNCH BREAK	
14:00-14:25	Title: <b>Liquidlike Low-Friction Polymer Brush Finishes for Textile Microfibre Shedding Reduction</b> Sudip Kumar Lahiri, University of Toronto, Canada	
14:25-14:50	Title: <b>Will Update Soon</b> Rafael Macedo, University of Sao Paulo, Brazil	
END FOR DAY 2		

- Few slots are available for speakers and poster presentations.
- Note: This is a tentative program, it is subjected to slight changes till final program.

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