



# 8th International Virtual Conference on Materials Science and Engineering

May 30-31, 2026 | Online Conference

## Scientific Program

### Materials Science Meeting 2026

Virtual Meeting | Time Zone: GMT+1 (London, UK)

May 30, 2026

Opening Ceremony

Time: 10:00- 10:05 AM

#### Keynote Session

10:05-10:30	Title: Factors Affecting the Growth Behavior of PEO Lamellae in Ultrathin Films
	Yuanyuan Zhang, Zhengzhou University, China
10:30-10:55	Title: Human Data for Fighting Infection, Virous, Cancer and Other Disease
	Prof. Tom Webster, Northeastern University, Boston, United States
10:55-11:20	Title: Development of statistical computational methods for the hydrogen parameters in high entropy alloys
	S.V. Bobyr, Iron & Steel Institute of the National Academy of Science of Ukraine, Ukraine
11:20-11:45	Title: Transition from MOS to Ideal Capacitor Triggered by Tunneling in the Inversion Population Regime
	Pedro Pereyra, UAM-Azcapotzalco, México

#### Plenary Speaker Session

Session Details	Materials Science and Engineering *** Nanomaterials and Nanotechnology *** Electrical, Optical, and Magnetic Materials *** Mining, Metallurgy and Materials Science *** Electrochemistry and X-ray Diffraction
Session Chairperson	Prof. Tom Webster, Northeastern University, Boston, United States
	Dr. S.V. Bobyr, ISI NASU, Ukraine
11:45-12:10	Title: Molecular Dynamics Insights into Interfacial Adsorption of Trifluorinated Drugs on Electrochemically Exfoliated TMD Heterostructures
	I. Agnes Felicia Roy, National Taipei University of Technology, Taiwan (ROC)

12:10-12:35	<p><b>Title: The reactive extrusion cationization of starches as a novel physicochemical surface modification method</b></p> <p>Beatriz Marcela Millán Malo, Universidad Nacional Autónoma de México, Mexico</p>
12:35-13:00	<p><b>Title: Harnessing Olivine for CO<sub>2</sub> Capture and Storage: A Sustainable Approach to Carbon Sequestration</b></p> <p>Emirhan Özan, Yıldız Technical University, Türkiye</p>
13:00-13:25	<p><b>Title: A Label-Free Platform for the Detection of SARS-CoV-2 RdRp-Helicase Sequences: a Multimodal Approach Implementing TIRE for Enhanced Sensitivity</b></p> <p>Paolo Canepa, University of Genova, Italy</p>
13:25-13:50	<p><b>Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator</b></p> <p>Seongwoo Woo, Ethiopian Technical University, Ethiopia</p>
13:50-14:15	<p><b>Title: Supply chain complexity and resilience management strategies in megaprojects</b></p> <p>Chet Narayan Gurung, Western Sydney University, Australia</p>
14:15-14:40	<p><b>Title: Integrating AlphaFold 3 and Molecular Dynamics to Elucidate the Aggregation Kinetics of the Arctic AmyloidMutant: A Comparative Study of GROMACS and AMBER Frameworks</b></p> <p>Kuo-Yuan Hwa, National Taipei University of Technology, Taiwan</p>
14:40-15:05	<p><b>Title: Design Challenges of Acid-Stable Transition Metal Oxide Electrocatalysts for PEM Water Electrolysis</b></p> <p>Yasmine MOUHDA, University of Hassan II Casablanca, Morocco</p>
15:05-15:30	<p><b>Title: Safety of Traditional Herbal Medicines</b></p> <p>Mohammad Kamil, Lotus Holistic Institute, Abu Dhabi UAE</p>
15:30-15:55	<p><b>Title: Trigonal Distortion Driven Ground States in Vanadium Trihalides VX<sub>3</sub> (X = Br and I)</b></p> <p>Chamini Pathiraja, University of Houston, USA</p>
15:55-16:20	<p><b>Title: Synergizing Pacer Heavy Minerals Up Gradation With Physical And Textural Charcters Of Minerals From Lean Grade Mineral Sand Deposits Using Different Model Gravity Concentrators</b></p> <p>Mintesenot Admasu Eshetu, Inorganic chemistry ITMO University, Russia</p>
16:20-16:45	<p><b>Title: Sustainable and Eco-Friendly Material Development for Functional Food Packaging: A Case study of PBS/PBAT Nanocomposites</b></p> <p>Adeebpasha A, JSS Science and Technology University, India</p>
16:45-17:05	<p><b>Poster Speaker Session</b></p>
P001	<p><b>Title: Flame-Spray-Engineered ZrO<sub>2</sub>/ZrO<sub>2-x</sub> Quantum Dots with Interfacial Quantum States for High-Efficiency H<sub>2</sub> Evolution</b></p>

Loukas Belles, University of Ioannina, Greece

P002

Title: Designing Impact-Tolerant Hybrid Polymeric Woven Composites: Architecture-Hybridisation-Damage Interplay

Chala Amsalu Tefera, Silesian University of Technology, Poland

P003

Title: Bio-based Materials for Moisture-Resistant Refugee Housing: A Comparative Study of Cork, Timber, and Bamboo

Varsha Ayalasomayajula, Student, The Madeira School, USA

P004

Title: Synergistic Ferroptosis-immunotherapy Nanoplatfoms: Multidimensional Engineering for Tumor Microenvironment Remodeling and Therapeutic Optimization

Xiao Wei, Chengdu University, China

**End of the Session**

**Closing Ceremony**

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