9th International Virtual Conference on Materials Science and Engineering
November 07-08, 2026 | Online Conference

Scientific Program

Materials Science Meeting 2026

Virtual Meeting | Time Zone: GMT+0 (London, UK)

November 07, 2026

Opening ceremony	**Time: 10:00- 10:05 AM**
Keynote Session	
10:05-10:30	**Title: Materials Integration Strategy for a 10 kW PEM Water Electrolysis–Metal Hydride Hydrogen Storage Demonstration System**
	Dr. Heena Yang, Water Energy Research Institute, Korea Water Resources Corporation (K-water), Korea
10:30-10:55	**Title: Zinc Oxide Nanoparticles for Skin Burn Wound Healing: A Comprehensive Review of Multifunctional Nanotherapeutic and Sensor-Integrated Platforms**
	Jharana Bajracharya, Birmingham City University, UK
10:55-11:20	**Title: Title: Defect can adjust the band gap of solar cell semiconductor CuInS2**
	Angyang-Yu, Harbin Institute of Petroleum, China
11:20-11:45	**Title:Designing and Managing Intelligent and Ethical Ecosystems Demonstrated for the Transformed Health and Social Care Domain**
	Bernd Blobel, University of Regensburg, Germany
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: Improving the Fatigue Design of Mechanical Systems such as Refrigerator**
	Seongwoo Woo, Ethiopian Technical University, Ethiopia

12:10-12:35	Title: First-principles study of the electronic and optical properties of wurtzite ZnO using the VDW-DF3-OPT1 exchange-correlation functionals
	Lahcen Ait Lamine, Ibnou Zohr University, Morocco
12:35-:13:00	Title: Modeling of hydrogen diffusion kinetics and trapping processes in complex alloyed oxide dispersion strengthened (ODS) steels
	Zhanna Ospanova, The National Nuclear Center of the Republic of Kazakhstan, Kazakhstan
13:00-:13:25	Title: A Label-Free Platform for the Detection of SARS-CoV-2 RdRp-Helicase Sequences: a Multimodal Approach Implementing TIRE for Enhanced Sensitivity
	Paolo Canepa, University of Genova, Italy
13:25-:13:50	Title: Integrating AlphaFold 3 and Molecular Dynamics to Elucidate the Aggregation Kinetics of the Arctic AmyloidMutant: A Comparative Study of GROMACS and AMBER Frameworks
	Kuo-Yuan Hwa, National Taipei University of Technology, Taiwan
13:50-:14:15	Title: Design Challenges of Acid-Stable Transition Metal Oxide Electrocatalysts for PEM Water Electrolysis
	Yasmine MOUHDA, University of Hassan II Casablanca, Morocco
14:15-:14:40	Title: Safety of Traditional Herbal Medicines
	Mohammad Kamil, Lotus Holistic Institute, Abu Dhabi UAE
14:40-:15:05	Title: Trigonal Distortion Driven Ground States in Vanadium Trihalides VX3 (X = Br and I)
	Chamini Pathiraja, University of Houston, USA
15:05-:15:30	Title: Sustainable and Eco-Friendly Material Development for Functional Food Packaging: A Case study of PBS/PBAT Nanocomposites
	Adeebpasha A, JSS Science and Technology University, INDIA
15:30-16:10	Poster Speaker Session (15:30-16:10)
P001	Title: Flame-Spray-Engineered ZrO_2/ZrO_{2-x} Quantum Dots with Interfacial Quantum States for High-Efficiency H_2 Evolution
	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
End of the Session	
Closing Ceremony	

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