



7th International Virtual Conference on Materials Science and Engineering

January 10-11, 2026 | Online Conference

Scientific Program

Materials Science Meeting 2026

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

January 10, 2026

Opening ceremony

Time: 10:00- 10:05 AM

Keynote Session

10:05-10:30	Title: Wear Mechanism and Chips Formation in Machining Hardened AISI 4303 at High Cutting Speed
	Jaharah A.Ghani, Universiti Kebangsaan Malaysia, Malaysia
10:30-10:55	Title: Upcycling Denim Waste: Development of Hydrophobic and Self-Sensing Bio-Based Materials
	Arantxa Ferrer Carrasco, Polytechnic University of Madrid (UPM), Spain
10:55-11:20	Title: AI-Enhanced Hydrogen Sensing in Aerobic and Anaerobic Conditions: Progress and Performance Evaluation
	Herbeck-Tazibt Jordan, Aix-Marseille University, France
11:20-11:45	Title: Evaluation of Shielding Effectiveness of Coated Alloy 709 for Nuclear Spent Fuel Dry Cask Canisters
	Zeinab Alsmadi, North Carolina State University, USA

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	Sylvere Ndikumana, Hassan II University of Casablanca, Morocco
	Lorenzo Pedrolli, University of Deusto, Bilbao, Spain
11:45-12:10	Title: Turning Waste into Strength: Sustainable Roof Tiles Reinforced with Recycled Cellulose Paper
	Yesmin Panecatl-Bernal, Universidad Nacional Autónoma de México, Mexico
12:10-12:35	Title: Green synthesis of silver nanoparticles using Syzygium cumini leaf extract coated with the amino acid histidine
	Mici Devi Yanti, Universitas Syiah Kuala, Indonesia

12:35-:13:00	Title: Accurate Clinical Entity Recognition and Code Mapping of Anatomopathological Reports Using BioClinicalBERT Enhanced by Retrieval-Augmented Generation: A Hybrid Deep Learning Approach
	Hamida Abdaoui, Higher Institute of Medical Technologies of Tunis, Tunisia
13:00-:13:20	Title: Biocatalytic Analogues of Classic Organic Reactions: Enzyme-Engineered Control of Selectivity in Modern Organic Synthesis
	Prashant Pandey, Department of Chemistry NIT Calicut, India
13:25-:13:50	Title: Innovative Applications of Sugarcane Bagasse in the Global Sugarcane Industry
	Sylvere Ndikumana, Hassan II University of Casablanca, Morocco
13:50-:14:15	Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator
	Seongwoo Woo, Ethiopian Technical University, Ethiopia
14:15-:14:40	Title: Thermal Transport and Flow Characteristics of Metal Powder Beds under Different Gas Environments
	Ummay Habiba, Ball State University Muncie, USA
14:40-:15:05	Title: Synthesis and Sintering of Nonstoichiometric (Mo _{0.2} Nb _{0.2} Ta _{0.2} Ti _{0.2} W _{0.2})C _x Nanoscale Powders for Highly-Dense Ceramics
	Wanxiu Hai, North Minzu University, China
15:05-:15:30	Title: A Deviation Correction Technique Based on Particle Filtering Combined with a Dung Beetle Optimizer with the Improved Model Predictive Control for Vertical Drilling
	Abobaker M Albabo, Zhongtian Technology submarine cable co , China
15:30-:15:55	Title: Experimental Assessment of Multi-Level Modulation Schemes for High-Speed LiFi System Under Indoor Channel Conditions
	Al Amin, International Islamic University Malaysia, Malaysia
15:55-:16:20	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
	Deependra Singh, Former Chairman and Managing Director of IREL (India) Limited, India
16:20-:16:45	Title: Impact of Rare Earth Metal Doping on the Structural Properties combined with DFT Study of ZnS Films
	Fatma Sarf, Çanakkale Onsekiz Mart University, Çanakkale, Turkey
16:45-17:05	Poster Speaker Session (16:10-16:30)
P001	Title: Structure–performance relationship in nickel microporous catalysts for methanation
	Chiara Nunnari, University Mediterranean of Reggio Calabria, Italy
P002	Title: Mohammed Salama, Laboratory LPMC, Theoretical Physics Group, Faculty of Sciences, Chouaïb Doukkali University, El Jadida, Morocco
	Mohammed Salama, Chouaïb Doukkali University, Morocco

End of the Session

Closing Ceremony

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