



Scientific Program

International Virtual Summit on Materials Science and Engineering July 01-02, 2024 | Online Conference

Materials Science Summit 2024

Virtual Meeting

Time Zone: GMT+1 (London, UK)

Opening Ceremony

Time: 09:00-09:05 AM

Keynote Session

09:05-09:30	Title: Research on the possibility of using nut biomass in metallurgical slag reduction processes
	Tomasz Matula, University of Technology, Poland
09:30-09:55	Title: Dynamic Power Reduction in TCAM Using Advanced Selective Pre-Charging of Match Lines
	Su-Yeon Doo, Sungkyunkwan University, Republic of Korea
09:55-10:20	Title: Coalescence of droplets in two-dimensional extensional flow
	Masahiro Muraoka, Tokyo University of Science, Japan
	Yuki Nakao, Tokyo University of Science, Japan
10:20-10:45	Title: Microstructure and Corrosion Property of Prepared CoCrW Coatings on the TC4 Surface by Laser Cladding
	Yubin Sun, Dalian Maritime University, China
10:45-11:10	Title: Application of the NSGA-II Algorithm and Kriging Model to Optimise the Process Parameters for the Improvement of the Quality of Fresnel Lenses
	Henry Chang, Shantou University, China

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	Tomasz Matula, University of Technology, Poland
	Henry Chang, Shantou University, China
11:10-11:35	Title: Generalizing Field Emission Theory for Surfaces with Strong Electron-Electron Interactions
	Naira Grigoryan, Institute of Fundamental Technological Research PAS, Poland

11:35-12:00	Title: Coplanar Waveguides based Ring Resonator for Quantum Computing Alfahad Alhakami, Jeddah University, Saudi Arabia
12:00-12:25	Title: Indole Derivative: A Green-Sustainable Corrosion Inhibitor for Carbon Steel in Aggressive Oil and Gas Well Treatment Fluids Wafa A. Alharthi, University of Jeddah, Saudi Arabia
12:25-12:50	Title: Assessment of Thermal Comfort in an Electric Bus Based on Machine Learning Classification Anuar Santoyo Alum, Technische Universität Berlin, Germany
12:50-13:15	Title: A Review of the Effect of Nano-Silica on the Mechanical and Durability Properties of Cementitious Composites Haneen AlTawaiha, Al-Balqa' Applied University, Jordan
13:15-13:40	Title: Preparing PVDF-HFP/PZT/GO composite films for energy harvesting technology Salesabil Labihi, Hasan II university, Morocco
13:40-14:05	Title: Eco-Friendly Natural Rubber– Composites for the Footwear Industry Giovanni Barrera Torres, Metropolitan Institute of Technology, Colombia
14:05-14:30	Title: Improved sensitivity in 1D-plasmonic photonic crystalbased sensor for biomolecules detection Ayoub Almughamisi, Jeddah University, Saudi Arabia
14:30-14:55	Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator Seongwoo Woo, Ethiopian Technical University, Ethiopia
14:55-15:20	Title: Electrode potential-dependent studies of protein adsorption on Ti6Al4V alloy Belma Duderija, Paderborn University, Germany
15:20-15:45	Title: Computer-Aided Drug Design of Novel Derivatives of 2-Amino-7,9-dihydro-8H purin-8-one as Potent Pan-Janus JAK3 Inhibitors Abdelmoujoud Faris, Mohamed Ben Abdellah University, Morocco
15:45-16:10	Title: Influence of Various Nanomaterials on the Rheology and Hydration Kinetics of Oil Well Cement Michael Boniface Baragwiha, China University of Petroleum, China
16:10-16:35	Title: Moisture Absorption Characteristics and Subsequent Mechanical Property Loss of Enset–PLA Composites Abebayehu Abdela, Mekelle University, Ethiopia
16:35-17:00	Title: Optimal Dosing and Patient Selection for Electrochemotherapy in Solid Abdominal Organ and Bone Tumors Cora Martin, University of Louisville, USA
17:00-17:25	Title: Composite material from waste poly (ethylene terephthalate) reinforced with glass fiber and waste window glass filler Biruk Gedif Worku, Bahir Dar University, Ethiopia
17:25-17:50	Title: Gallbladder Agenesis in a Crossbreed Dog Ignacio Vitullo, Anicura ARS Veterinary Hospital, Spain
17:50-18:15	Title: In Situ, Real-Time Temperature Mapping and Thermal FE Simulations of Large-Format 3D Printed PETG/CF Vertical Wall

	Felipe Robles Poblete, The University of Maine, USA
18:15-19:30	Poster Speaker Session
P001	Title: Development of “Cissus quadrangularis” Composite Material with Elevated Mechanical Properties and Thermal Stability
	Gopinath Gummada Valli, University of Applied Sciences Kaiserslautern, Germany
P002	Title: Role of Temporal Zn Fertilization along with Zn Solubilizing Bacteria in Enhancing Zinc Content, Uptake, and Zinc Use Efficiency in Wheat Genotypes and Its Implications for Agronomic Biofortification
	Azizullah Khalili, Sayed Jamaluddin Afghani University, Afghanistan
P003	Title: Development of Novel Electrospun Fibers Based on Cyclic Olefin Polymer
	Malihe Sabzekar, Ferdowsi University of Mashhad, Iran
P004	Title: Impact of Static-Oriented Electric Fields on the Kinetics of Some Representative Suzuki–Miyaura and Metal-Cluster Mediated Reactions
	Navya Arepalli, Birla Institute of Technology, India
P005	Title: Gas Leakage Identification and Prevention by Pressure Profiling for Sustainable Supply of Natural Gas
	Tahir J Butt. MSc Energy Engineering. UET Lahore, Pakistan
P006	Title: Synthesis of Zinc Oxide Nanorods from Zinc Borate Precursor and Characterization of Supercapacitor Properties
	Mohamed Lefdhil Chikh Sidi El Mokhtar, Karabuk University, Turkey
P007	Title: Fabrication, Characterization and Biomedical Evaluation of a Statistically Optimized Gelatin Scaffold Enriched with Co-Drugs Loaded into Controlled Release Silica Nanoparticles
	Hina Younis, University of Sargodha, Pakistan
P008	Title: Tailoring Epoxy Composites with Acacia Caesia Bark Fibers: Evaluating the Effects of Fiber Amount and Length on Material Characteristics
	Sivasubramanian Palanisamy, Department of Mechanical Engineering, India
End of the Session	
Closing Ceremony	
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