



3rd International Virtual Conference on Materials Science and Engineering April 27-28, 2024 | Online Conference

Scientific Program

Materials Science Meeting 2024

Virtual (Teams Meeting)

Time Zone: GMT+1 (London, UK)

April 27, 2024

Opening Ceremony

Time: 08:00-08:05

Keynote Session

08:05-08:30	Title: Taxonomic Exploration of Healthcare IoT: Challenges, Solutions, and Future Frontiers
	Lutifa Alashlam, Institute of Graduate Research and Studies, Libya
08:30-08:55	Title: The Building Process for rapid-construction houses in Fibre Reinforced Plastic Polymer (FRP)
	Maria Cairoli, Politecnico di Milano Energy Department, Italy
08:55-09:20	Title: Multicomponent High-Entropy Cantor Alloys
	Brian Cantor, Brunel University, UK
09:20-09:45	Title: Carbon-based Hydrogen Storage Materials
	Heena YANG, Water Energy Research Institute, Korea
09:45-10:10	Title: Theoretical Study of, Electronic, and Optical Properties of Barium Stannate using DFT-LDA Approach
	Brahim Ouazik, Ibn Tofail University, Morocco

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	Lutifa Alashlam, Institute of Graduate Research and Studies, Libya
	Brahim Ouazik, Ibn Tofail University, Morocco
10:10-10:35	Title: DFT and DFT+U study of structural, electronic and optical properties of tin dioxide
	Abderrahim Ait Lhaj, Ibn Tofail university, Morocco
10:35-11:00	Title: Characterization of Plasma-deposited a-C:H:F Films on Aluminum Substrates
	José Luciano C. Cesar, São Paulo State University (UNESP), Brazil
11:00-11:25	Title: Characterization of Plasma-deposited a-C:H:F Films on Porous Bronze Substrates

	José Luciano C. Cesar, São Paulo State University (UNESP), Brazil
11:25-11:50	Title: Theoretical study of electronic and anisotropy optical properties of wurtzite zinc oxide by DFT
	Lahcen Ait Lamine, Ibnou Zohr University, Morocco
11:50-12:15	Title: Evaluation of saline solutions and organic compounds as displacement fluids of bentonite pellets for application on abandonment of offshore wells
	Waleska R P Costa, Universidade Federal de Campina Grande (UFCG), Brazil
12:15-12:40	Title: Influence of Process Variables on the Rheological Parameters of Inverse Olefin Emulsions: Use of Machine Learning Models and Response Surface Methodology
	Waleska R P Costa, Universidade Federal de Campina Grande (UFCG), Brazil
12:40-13:05	Title: Proposal of a New Atapulgitite-Based Fluid for Temporary Abandonment of Wells
	Ruth L N Gonçalves, Universidade Federal de Campina Grande (UFCG), Brazil
13:05-13:30	Title: Study of the Contact of Formation Waters with Different Chemical Compositions on Compacted Bentonite Used as Safety Barriers on Well Abandonment Operations
	Ruth L N Gonçalves, Universidade Federal de Campina Grande (UFCG), Brazil
13:30-13:55	Title: Change of Coarse Aggregate Type's Impact on the Performance of Moderate and High Strength Concretes
	Salas Montoya Andres, National University of Colombia, Colombia
	Colmenero Fonseca Fabiola, University Institute of Materials Technology, Spain
	Rodríguez Pérez Ramiro, Technological Institute of Ciudad Guzmán/Department of Earth Sciences,México
	Palomino Bernal Juan Francisco,Technological Institute of Ciudad Guzmán/Department of Earth Sciences, México
13:55-14:20	Title: Enhanced Volts-per-Hertz Sensorless Starting of Permanent Magnet Motor with Heavy Loads in Long-Cable Subsea Applications
	Virendra Singh, University of Houston, USA
14:20-14:45	Title: Defect And Microstructure Control Of Materials Using The Electron Wind Force
	Md Hafijur Rahman, Pennsylvania State University, USA
14:45-15:10	Title: Tackling Challenges: Exploring the Use of Natural Polymers in the Development of Anticorrosive Coatings
	Ana Alejandra Aguilar Ruiz, Instituto Tecnológico de Sonora, México
15:10-15:35	Title: A Comparative Analysis of Multi-Scale and Rayleigh Approaches in Capturing Eigenfrequencies and Mode Shape Evaluation in Planetary Gear Transmission Systems of Medium and Heavy Trucks
	Mahmoud Mabrouk , Hubei University of Automotive Technology China
15:35-16:00	Title: Pre-Trained Transformer-Based Models for Text Classification Using Low-Resourced Ewe Language
	Victor Kwaku Agbesi, University of Electronic Science and Technology of China, China

16:00-16:25	Title: IoT Based Drug Infusion Device Using Load Monitoring Technique for Detection of Volume and Flow Rate
	Chiang Liang Kok, Associate Professor, University of Newcastle, Australia
16:25-16:50	Title: Improvement of PbSn Solder Reliability with Ge Microalloying-Induced Optimization of Intermetallic Compounds Growth
	Zhibo Qu, Beijing Microelectronics Technology Institute, China
16:50-17:15	Title: Structural, Thermal, Rheological, and Morphological Characterization of the Starches of Sweet and Bitter Native Potatoes Grown in the Andean Region
	Olivia Magaly Luque Vilca, Universidad Nacional De Juliaca, Peru
17:15-17:40	Title: Better Detection of Peripheral Arterial Disease with Toe-Brachial Index Compared to Ankle-Brachial Index among Taiwanese Patients with Diabetic Kidney Disease
	Chia-Wei Chang, Kaohsiung Medical University, Taiwan
17:40-18:05	Title: The Generalized Iterated Function System and Common Attractors of Generalized Hutchinson Operators in Dislocated Metric Spaces
	Talat Nazir, University of South Africa, South Africa
18:05-18:30	Title: The Effect Of Replacing Boron Atoms With Nitrogen Atoms On The Electrical And Magnetic Properties Of Single-Layer Hexagonal Boron Nitride (H-Bn) Using The DFT Method
	Tabitha Pamela Chrisolite, Institut Teknologi Sepuluh November, Indonesia
18:30-19:45	Poster Speaker Session
P001	Title: Sensor Array based on Organic Conducting Polymers and Porphyrins functionalized SWNTs
	Mahendra D Shirsat, Dr. Babasaheb Ambedkar Marathwada University, India
P002	Title: Performance Analysis of Conventional IPMSM and NCPM Based IPMSM
	J. Vijaya Kumar, Department of Electrical and Electronics Engineering, Anil Neerukonda Institute of Technology & Sciences (ANITS), India
P003	Title: Design and Implementation of Hardware-Implemented Dual-Axis Solar Tracking System for Enhanced Energy Efficiency
	Udit Mamodiya, Associate Dean Poornima University, India
P004	Title: Influence of the Arrangement of the Cells/Modules of a Traction Battery on the Spread of Fire in Case of Thermal Runaway
	Ana Olona, University of Zaragoza, Spain
P005	Title: Membrane For Oil-Water Separation Fabricated Using Plasma Technology
	Bornali Sarma, University of Delhi, India
End of the Session	
Closing Ceremony	
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