

Materials Science Conference 2024



SCIENTIFIC PROGRAM

5th International Virtual Conference on Materials
Science & Engineering

January 20-21, 2024

Virtual Conference (Online Meeting)

Delight Scientific Conferences

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Material Science Conference 2024, January 20-21, 2024

Time: 10:30 AM

Time Zone: GMT+0, London, UK

January 20, 2024

Opening Ceremony:

10:30-10:35

Keynote Speaker Session

Presentation Time

10:35-11:00

Dr. Italo Almirante, University of Modena and Reggio Emilia, Italy

Presentation Title: Simple Strategy for Torque Ripple Minimization in Switched Reluctance Motor Drives

11:00-11:25

Dr. Jiayong Lu, Zhengzhou University, China

Presentation Title: Crystallization and morphology of polylactic stereocomposite crystals in films

11:25-11:50

Dr. Seth Patrick Shuster, University of Connecticut, United State

Presentation Title: Synthesis and Characterization of Vanadium Carbide/Carbon Fiber Composites Reinforced with Nickel-Catalyzed Carbon Nanomaterials

11:50-12:15

Dr. Nithyadevi Duraisamy, Long Island University, USA

Presentation Title: Nanomaterials and its Application in Healthcare Industry

Plenary Speaker Session

Scientific Sessions

Session 01: Materials Science and Engineering

Session 02: Nanomaterials and Nanotechnology

Session 03: Materials for Energy and Environmental Sustainability

Session 04: Electrical, Optical, and Magnetic Materials

Session 05: Ceramics and Magnetic Materials

Session 06: Metallurgy, Corrosion and Mining

Session 07: Emerging Smart Materials

Session 08: Advances in Instrumentation Technology

Sessions Chairperson

Dr. Italo Almirante, University of Modena and Reggio Emilia, Italy

Dr. Nithyadevi Duraisamy, Long Island University, USA

12:15-12:40

Mr. Ibrahim Fathahillah Hizbul Islam, Sepuluh Nopember Institute of Technology, Indonesia

Presentation Title: Investigating the Synergistic Performance of Thermal Barrier Coating 30% Al₂O₃ and 70% YSZ on Hastelloy C276 for Tip Nosecone under Extreme Temperatures - An Experimental and Numerical Analysis

12:40-13:05

Dr. Ching-Lung Fan, Republic of China Military Academy, Taiwan
Presentation Title: DeepLabv3-Based Deep Neural Network Architecture for Accurate Spalling Segmentation on Concrete Surfaces

13:05-13:30

Dr. Semih Dönmezer, Technical University of Vienna, Austria
Presentation Title: Digital Body Size Library and Fields of Applications

13:30-13:55

Dr. Mahmoud I. Abo-Youssef, Field Crops Research Institute, Agricultural Research Center, Egypt
Presentation Title: Biochemical, Anatomical, Genetic, and Yield Assessment of Seven Rice Genotypes (*Oryza sativa* L.) Subjected to Drought Stress

13:55-14:20

Dr. Gopinath Gummadavalli, Hochschule Kaiserslautern University of Applied Sciences, Germany
Presentation Title: Development of "Cissus quadrangularis" Composite Material with Elevated Mechanical Properties and Thermal Stability

14:20-14:45

Dr. David Alberto Morales-Ortega, Autonomous University of Querétaro, Mexico
Presentation Title: Design of a Tension Infiltrometer with Automated Data Collection using a Supervisory Control and Data Acquisition System

14:45-15:10

Dr. Madiha Khan, University of Messina Department of Engineering, Italy
Presentation Title: Effects of Fe₂O₃ on the magnetic and gas sensing properties of Co₃O₄ nanoparticles

15:10-15:35

Dr. Mohamad Abbas Kaddaha, Lebanese University, Lebanon
Presentation Title: New Geometrical Modelling for 2D Fabric and 2.5D Interlock Composites

15:35-16:00

Dr. Asadullah Dawood, National Excellence Institute (University), Pakistan
Presentation Title: Influence of magnetic field on plasma parameters & surface modification of Cu-alloy after fs laser irradiation

16:00-16:25

Dr. Seongwoo Woo, Ethiopian Technical University, Ethiopia
Presentation Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator

16:25-16:50

Dr. Edris Pordel, University of Medical Sciences, Iran
Presentation Title: The Effect of Different Output Powers of Blue Diode Laser along with Curcumin and Riboflavin against *Streptococcus mutans* around Orthodontic Brackets: An In Vitro Study

16:50-17:15

Dr. Fahad Ali, Balochistan University of Information Technology, Pakistan
Presentation Title: Evaluation of Seismic Response of 3D Building Frame with and without Base Isolation Using Finite Element Analysis

17:15-17:40

Dr. Vladimir G. Chigrinov, Hong Kong University of Science and Technology, Hong Kong
Presentation Title: Azodye Nanolayers Photoalignment for New Liquid Crystal Devices

17:40-18:05

Dr. Shahid Ahmad Wani, Islamic University of Science and Technology, India
Presentation Title: Unveiling the Potential of Sheffer Polynomials: Exploring Approximation Features with Jakimovski Leviatan Operators

18:05-18:30

Dr. Abebayehu Abdela, Kmekelle University, Ethiopia
Presentation Title: Single Natural fiber Tensile Properties Estimation Using Digital Image Correlation Technique

Poster Presentation Session (18:30-19:00)

5IVCME-01

Dr. Haneen Mahmoud Salem AlTawaiha, Al-Balqa' Applied University, Jordan
Presentation Title: The Effect of Nano-Silica on the Mechanical and Durability Properties of Cementitious Composites

5IVCME-02

Dr. Mesfin Abeje, Wuhan University of Technology, China
Presentation Title: The Influence of Safety Culture and Climate on Safety Performance: Mediating Role of Employee Engagement in Manufacturing Enterprises, Ethiopia's

End of Session

Awards & Closing Ceremony

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