

# **SCIENTIFIC PROGRAM**

**Materials Science Virtual Meeting 2024**

**2nd International Virtual Conference on  
Materials Science & Engineering**

**April 29-30, 2024 (Virtual Conference)**

**Theme: Optimizing the Demand of Material Science with the Help of  
Recent Technologies & Engineering**

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# Scientific Program

## Materials Science Meeting 2024, April 29-30, 2024

**Time:** 10:00 AM

**Time Zone:** GMT+1, London, UK

### Opening Ceremony: 10:00-10:05 AM

**April 29, 2024**

#### Keynote Speaker Session

**10:05-10:30**

**Speaker:** Dr. Brian Cantor, University of Oxford, UK

**Presentation Title:** Multicomponent High-Entropy Cantor Alloys

**10:30-10:55**

**Speaker:** Dr. Suranjana V. Mayani, Marwadi University, India

**Presentation Title:** Development of Green novel Nano catalyst for Catalytic degradation of dye in Water

**10:55-11:20**

**Speaker:** Dr. David Alberto Morales-Ortega, University of Querétaro, Mexico

**Presentation Title:** Design of a Tension Infiltrometer with Automated Data Collection using a Supervisory Control and Data Acquisition System

#### Plenary Speaker Session

##### Session Chairperson Details

Dr. Brian Cantor, University of Oxford, UK

Dr. Suranjana V. Mayani, Marwadi University, India

##### Session Details

- \*Biomaterials and Tissue Engineering.
- \*Nanomaterials and Nanoengineering.
- \*Electrical, Optical, and Magnetic Materials
- \*Materials for Energy and Environmental Sustainability
- \*Physics and Chemistry of Materials
- \*Nanomaterials and Nanotechnology
- \*Mining, Metallurgy and Materials Science

**11:20-10:45**

**Speaker:** Dr. Seiko Jose, Mahatma Gandhi University, India

**Presentation Title:** Investigation of effect of nano kaolinite as a filler in the coarse wool - vinyl ester composite

**11:45-12:10**

**Speaker:** Dr. Evelina Domashevskaya, Voronezh State University, Russia

**Presentation Title:** Nonlinear Structure phase and Electromagnetic Properties of Thinfilm Nanocomposites (CoFeZr)<sub>x</sub>(MgF<sub>2</sub>)<sub>1-100</sub>

**12:10-12:35**

**Speaker:** Dr. Vera Frolova, Voronezh State University, Russia

**Presentation Title:** Microstructural and hydrophilic properties of polyethylene terephthalate glycol polymer samples with different 3D printing patterns

**12:35-13:00**

**Speaker:** Dr. Abdeen Mustafa Omer, Energy Research Institute (ERI), Nottingham, United Kingdom

**Presentation Title:** Design and operation of low energy consumption passive human comfort solutions

**13:00-13:25**

**Speaker:** Dr. Nusrat Nabila Chowdhury, Xavier University of Louisiana, United States of America

**Presentation Title:** Nanotechnology Platform for Advancing Vaccine Development against the COVID-19 Virus

### **Poster Presentation (13:25- 14:45)**

**RWI001**

**Speaker:** Dr. Zaid Derea Abdulameer, Central South University, Changsha, China

**Presentation Title:** Deep Learning Based CAPTCHA Recognition Network with Grouping Strategy

**RWI002**

**Speaker:** Dr. Prathviraj Sharma, University College of Engineering Tindivanam, India

**Presentation Title:** On a new subclasses of bi - univalent functions associated with bounded radius rotation and bounded boundary rotation

**RWI003**

**Speaker:** Dr. Najwa Al Bouzieh, United Arab Emirates University

**Presentation Title:** first\_pagesettingsOrder Article Reprints Open AccessArticle A Comparative Study of Electronic, Optical, and Thermoelectric Properties of Zn-Doped Bulk and Monolayer SnSe Using Ab Initio Calculations”

**RWI004**

**Speaker:** Dr. Reda Abdel-Hameed, Al-Azhar University, Egypt

**Presentation Title:** Green Synthesis of Heterocyclic Compounds for anticorrosion inhibition and Biomedical Applications

**AWI005**

**Speaker:** Dr. Suranjana V. Mayani, Marwadi University, Gujarat, India

**Presentation Title:** Synthesis of Sustainable Strontium Ferrite Graphene Nano Composite for Fluoride removal in water

**RWI006**

**Speaker:** Dr. Ekta Yadav, Indian Institute of Technology (IIT) Indaur India

**Presentation Title:** Process gas influenced anti-site disorder and its effects on magnetic and electronic properties of half-metallic Sr<sub>2</sub>FeMoO<sub>6</sub> thin films

**RWI007**

**Speaker:** Dr. Samiullah Khan , Comsat University Islamabad , Pakistan

**Presentation Title:** Composite Fibers in Concrete: Properties, Challenges, and Future Directions.

**Plenary Speaker Session 02**

**14:45-15:10**

**Speaker:** Dr. Manuel Hidalgo, University, Av. América , Peru

**Presentation Title:** Analysis of lncRNAs in Lupinus mutabilis (Tarwi) and Their Potential Role in Drought Response

**15:10-15:35**

**Speaker:** Dr. Suhas Vyas, Bhakta Kavi Narsinh Mehta University, India

**Presentation Title:** Unraveling the Protective Power of Mangrove in Mitigating Copper Corrosion Insights from Langmuir Adsorption and Thermodynamic Analysis

**15:35-16:00**

**Speaker:** Dr. Suranjana V. Mayani, Marwadi University, India

**Presentation Title:** Synthesis of Sustainable Strontium Ferrite Graphene Nano Composite for Fluoride removal in water

**16:00-16:25**

**Speaker:** Dr. Ekta Yadav, Indian Institute of Technology (IIT) Indaur India

**Presentation Title:** Process gas influenced anti-site disorder and its effects on magnetic and electronic properties of half-metallic Sr<sub>2</sub>FeMoO<sub>6</sub> thin films

**16:25-16:50**

**Speaker:** Dr. Samiullah Khan , Comsat University Islamabad, Pakistan

**Presentation Title:** Composite Fibers in Concrete: Properties, Challenges, and Future Directions

**End of Session with Closing & Award Ceremony**