

TENTATIVE PROGRAM

3RD EDITION OF INTERNATIONAL CONFERENCE ON
**MATERIALS SCIENCE
AND ENGINEERING**

SEPTEMBER 21-22, 2022
PARIS, FRANCE
HYBRID EVENT

Contact us:

Ph: 1 (702) 988-2320

Email: materialsscience@magnusconference.com

Website: <https://materials.magnusconferences.com/>

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MAT 2022

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SCIENTIFIC TOPICS

- Ceramics, Engineering Materials and Composite Materials
- Mechanics, Characterization Techniques and Equipments
- Batteries & Solid Electrolyte Materials
- Environmental and Green Materials
- Computational Materials Science
- Materials Science and Engineering
- Nanomaterials and Nanotechnology
- Failure Analysis and Prevention Techniques
- Plastics and Elastomers
- Coating and Surface Engineering
- Magnetism and Multiferroism
- Structural Materials and Metallurgy
- Biosensors and Bio Electronic Materials
- Optical, Electronic, Magnetic Materials and Plasmonics
- Emerging Smart Materials
- Biomaterials and Medical Devices
- Applications of Metallurgy, Minerals and Materials Science in other fields

For more Topics:
<https://materials.magnusconferences.com/program/scientific-sessions>

Speaker	Presentation Title
Keynote Presentations	
Bala Vaidhyanathan Loughborough University, United Kingdom	Title: 2D/3D Manufacture of Advanced Ceramics for Demanding Applications
Yarub Al Douri American University of Iraq, Iraq	Title: A correlation between nanotechnology and renewable energy
Kamran Nikbin Imperial College, United Kingdom	Title: Will be updated soon...
Oral Presentation	
Atefeh Golbang Ulster University, UK	Title: Improving interlayer bonding and strength in 3D-printed thermoplastics
Talero Raefel Santa Susana, Spain	Title: Thermally activated clays and their potential for cement factories to stop contributing powerfully to global warming
Olayinka Ahmed Ibitowa Carl von Ossietzky Universität Oldenburg, Germany	Title: Highly porous carbon-based electrodes with enhanced properties for application in sodium-ion batteries
Agnieszka Żmijewska-Rocha PIEP - Centre for Innovation in Polymer Engineering, Portugal	Title: Influence of laser transmission welding parameters and dimensions of welding rib on joint force in thermoplastic
Ekaterina Politova Moscow State University, Russia	Title: New lead-free perovskite materials on the base of sodium-potassium niobate and sodium-bismuth titanate oxides
Bianca R. N. Pereira Federal University of Technology, Brazil	Title: Effect of quenching on the structural, morphological, and magnetic properties at Cobalt and Nickel ferrites.
Tetiana Prikhna National Academy of Sciences, Ukraine	Title: ZrB ₂ -SiC, ZrB ₂ -SiC-ZrC and TaB ₂ -SiC Composites Manufactured Under High 4 GPa and 30 MPa Pressures
Osman Adiguzel Firat University, Turkey	Title: Crystallographic Basis of Thermal and Mechanical Reversibility in Shape Memory Alloys
Archana Sharma Bhabha Atomic Research Centre, India	Title: Joining of high strength alloys and dissimilar materials using Magnetic Pulse Welding Technique
Prasanta Chowdhury CSIR - National Aerospace Laboratories, India	Title: Development of current sensors using giant magnetoresistance effect in magnetic multilayers
Sivasubramanian Palanisamy Dilkap Research Institute of Engineering and Management Studies, India	Title 1: Utilization of untreated Acacia Caesia fiber particle as novel filler in natural rubber Title 2: Physical, chemical and mechanical characterization of Natural Bark Fibres (NBFs) reinforced polymer composites

Dr. Payal Bhardwaj University of Mysuru, India	Title: Electrical Impedance Analyzer: Recent technique for biomaterial characterization
M L Aparna Indian Institute of Technology, India	Title: Bitter Gourd pericarp derived porous activated carbon for high energy density supercapacitor devices
Debashis Mahato Indian Institute of Technology, India	Title 1: CuO-ZnO based hybrid system: a durable and efficient electrocatalyst for oxygen reduction reaction Title 2: S, N co-doped graphene quantum dots modified TiO ₂ : an excellent electrocatalyst for oxygen reduction reaction
Dr. Najam UI Hassan University of education, Pakistan	Title: Effect of Ni/Mn ratio on magnetostructural coupling and magnetocaloric effect in MnCoGe alloys
Steadyman Chikumba University of South Africa, South Africa	Title: Fabrication and investigation of the impact of sintering temperature on microhardness of Fe ₂₀ Cr ₂₀ Mn ₂₀ Ni ₂₀ Ti ₁₀ Co ₅ V ₅

Poster Presentation

Ainhoa Riquelme Aguado King Juan Carlos University, Spain	Title: Hardening of light aluminum-silicon alloys by additive manufacturing
Pilar Rodrigo Herrero King Juan Carlos University, Spain	Title: Characterization of TiAl alloys manufactured by powder metallurgy technique
Parth Mehta Indian Institute of Technology, India	Title: Stability optimization of NaBH ₄ via pH and H ₂ O:NaBH ₄ ratios for large scale hydrogen production
