

8th Edition of International Conference on

Materials Science and Engineering

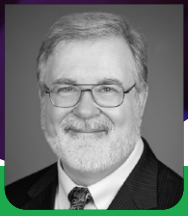
*Theme: Materials for Tomorrow:
Advancements in Materials
Science & Engineering*

10-12TH
MARCH
2025

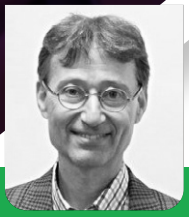
Our OCMs



EPHRAIM SUHIR
Portland State University
United states



RICHARD J SPONTAK
North Carolina State University,
United States



HARRY RUDA
University of Toronto, Canada



ALAIN PONTON
Université Paris Diderot, France



PAULO CESAR DE MORAIS
Catholic University of Brasilia, Brazil

Scientific TOPICS

- Ceramics, Engineering Materials and Composite Materials
- Mechanics, Characterization Techniques and Equipments
- Batteries and 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

Contact us: Email: materials@magnusconference.com
Web: <https://magnusconferences.com/materials-science/>
Phone: +1 (702) 988-2320 | **WhatsApp:** +1 (640) 666 9566



NH Villa Carpegna
Via Pio IV, 6, 00165 Roma RM, Italy

In-Person

Ephraim Suhir, Portland State University, United States

Title: Probabilistic design for reliability of electronic and photonic materials, devices, packages and systems, and the role of analytical ("mathematical") modelling

Virtual

Richard J. Spontak, North Carolina State University, United States

Title: On the versatility of charged thermoplastic elastomers in the environment, energy and healthcare sectors

Harry E. Ruda, University of Toronto, Canada

Title: Harnessing the unique transport properties of InAs nanowires for single molecule level sensing

Johannes Vrana, Vrana GmbH - NDE Consulting and Solutions, Germany

Title: Digital transformation and its impact on materials science

Alain Ponton, Universite Paris Diderot, France

Title: Smart graphene oxide-based composite materials for selective adsorption

Paulo Cesar De Moraes, Catholic University of Brasilia, Brazil

Title: Exploring graphene oxide nanocomposites in cancer therapy

In-Person

Pelin Berik Giwa, University of Central Florida, United States

Title: Mooney rivlin and ogden numerical material models of ultra soft tissue- Equivalent alginate hydrogels

Pedro Bamberg, RWTH Aachen University, Germany

Title: Enhancing resistance spot welding of AW-7075 alloys through gradual upslope welding current: Improving weld quality, mechanical properties, and micro structural characteristics

Ghiath Monnet, EDF R&D, France

Title: Strain localization in austenitic stainless steels studied by atom force microscope

David Chapelle, Université de Franche-Comté, France

Title: Investigating efficiency and environmental impact of type 4 hydrogen tank for heavy mobility

Juan José Parajó Vieito, University of Santiago de Compostela, Spain

Title: Exploring ionic liquids: A pathway to sustainable energy storage

Antonio Pantano, Università degli Studi di Palermo, Italy

Title: Impact of nanoparticles on the mechanical properties of natural fiber biocomposites

Bun Tsuchiya, Meijo University, Japan

Title: Dynamic analysis of lithium ion transfer at electrode/solid electrolyte interfaces in all solid state lithium ion batteries under charging condition using ERD technique

Yanfang Gao, Inner Mongolia University of Technology, China

Title: Melamine-derived high-graphite carbon hollow tubular Fe-N/C catalyzed alkaline oxygen reduction reaction

Xin Zhang, Inner Mongolia University of Technology, China

Title: Fe doped MoS₂ nanozymes for sensitive determination of H₂O₂ in milk

Sujit Kumar Bandyopadhyay, Variable Energy Cyclotron Centre, India

Title: Role of d electrons in multifunctional materials

Sonal Choudhary, Institute of Forensic Science & Criminology, Panjab University, India

Title: Sustainable anti-swelling hydrogel for rapid and effective oil spill cleanup in challenging environments: An experimental study of water repellency and oil absorption

Elmehdi Majdi, Hassan II University of Casablanca, Morocco

Title: Experimental and theoretical investigation of 2-Methyl-6-Nitroanilinium Hydrogen Sulfate: Synthesis, structural, spectroscopic, and quantum chemical properties

Benahmed Abdessamade, Mohammed First University, Morocco

Title: Cellulose acetate-g-polycaprolactone copolymerization using diisocyanate intermediates and the effect of polymer chain length on surface, thermal, and antibacterial properties

Marut Johnson Josiah, Plateau State University, Boko, Nigeria

Title: Framework towards utilisation of sustainable building materials in the Nigerian construction industry

Abubakar Umar Birnin-Yauri, Kebbi State University of Science and Technology, Aliero, Nigeria

Title: Material properties of paving blocks prepared from polyethylene based plastic waste and natural fibre

Sesugh Emmanuel Tile, Joseph Sarwuan Tarka University Makurdi, Nigeria

Title: Mechanical characterization of woven raffia palm fiber-groundnut shell epoxy hybrid composite for prosthetic socket applications

Osarumwense Peter Osarodion, Chemical Sciences, Nigeria

Title: Synthesis, analgesic activity of 3-amino 4,5-dimethoxyl-2-methyl quinazolin-4(3H)-one and 6-methoxyl-2-methyl of 4H-benzo[d][1,3]-oxazine-4-one

Ouedraogo Tongonmanegde Leonard, University Joseph KI-ZERBO, Burkina Faso

Title: Green synthesis and application of silver nanoparticles using Combretum Micranthum leaves extract

Jamal Davoodi, University of Zanjan, Iran (Islamic Republic of)

Title: The investigation of mechanical properties of titanium carbide MXene/Graphene heterostructure

Mohammad Ali Foyouzat, Sharif University of Technology, Iran (Islamic Republic of)

Title: A semi-analytical solution for the dynamic analysis of a rectangular viscoelastic plate subjected to a moving inertial load

Mohammad Ranjbar, Mineral Industries Research Centre, Iran (Islamic Republic Of)

Title: Removal of oily pollutants from water using ZIF-8/carbon fiber nanostructure: Experimental Investigation and artificial intelligence modeling

Leonard Mwaikambo, University of Dar es Salaam, Tanzania, United Republic of

Title: Plant fibre reinforced CNSL composites

Virtual

Kyu Shik Mun, Cedars-Sinai Medical Center, United States

Title: Development of 3D bioprinted lung airway model to study mucociliary clearance

Behzad Sadeghi, The Erich Schmid Institute of Materials Science (ESI) of the Austrian Academy of Sciences, Austria

Title: How hybrid reinforcing of nanocarbons strongly affects the balance between strength and ductility in aluminum matrix composites

Andrey Shobukhov, Shenzhen MSU-BIT University, Russian Federation

Title: Modelling of the multi-component concentration-dependent diffusion

Evgeny Grigoryev, Merzhanov Institute of Structural Macrokinetics and Materials Science Russian Academy of Sciences (ISMAN), Russian Federation

Title: Features of high-voltage consolidation of powder materials

Ang-Yang Yu, Southwest Jiaotong University, China

Title: A unified explanation for the mechanism of room-temperature superconductivity

Siddharth S, Vikram Engineering Industry, India

Title: Exploring dissimilar materials joining: Friction stir spot welding of aluminum and copper

Rajkumar Singh, Kalyani Centre for Technology and Innovation, Bharat Forge Limited, India

Title: Influence of FSP and SiC/TiB₂ reinforcement on microstructure and mechanical behavior of AA7039 aluminum alloy

Vanya Goel, KIET Group of Institutions, India

Title: Study and investigation on high voltage insulator materials

Venkatesh .R.Koujalgi, Retired, India

Title: Failure analysis of press tools. Distortion Quenching. Quenchant and Chemicals

Tanmoy Das, The University of Burdwan, India

Title: Oxynitride glasses from an engineering and technological viewpoint

Walaa Ahmad alhussein, Damascus University, Syrian Arab Republic

Title: Study of the effect of the percentage of nano aluminum oxide and titanium oxide on welding joints using the ATIG method

Adelaide L. OUEDRAOGO, Joseph KI-ZERBO University, Burkina Faso

Title: Local materials and bioclimatic construction: A pathway for climate adaptation in Burkina Faso

Noutegomo Boris , University of Bamenda, Cameroon

Title: Influence of moisture on the mechanical properties of Rhecktophyllum Camerunense vegetable fiber

Oral presentation slots are available

In-Person

Bun Tsuchiya, Meijo University, Japan

Title: Charging/discharging rates dependences of Li⁺ Ion migration in all solid state Li⁺ Ion batteries

Sergei M. Zuev, MIREA - Russian Technological University (RTU MIREA), Russian Federation

Title: Modeling defect formation processes in metal-semiconductor structures considering heat transfer with the environment

Vikash Kumar Chauhan, Indian Institute of Technology Bombay, India

Title: Brackish water treatment by interfacial thermal desalination using a novel sustainable organic material for tropical regions

Kousik Pradhan, Indian Institute of Technology Bombay, India

Title: Enhancing the Heat Transfer Efficiency of a Solar Still Desalination Unit by the Utilization of Cobalt Ferrite Coating for Sustainable Wastewater Treatmentn

Jamal Zimou, Ibn Tofail University, Morocco

Title: Experimental and numerical study of Ce_{1-x}Fe_xO₂ thin films for photovoltaic applications

Rawia, University of Tunis Elmanar, Tunisia

Title: Physical properties and photocatalytic activities under solar light of NaLi_{1.07}Co_{2.94}(MoO₄)₅ nanoparticles

Virtual

Roman Bogdanov, Independent Researcher, Germany

Title: Prediction of corrosion weight loss in CoCrFeNiMo high-entropy alloys using multiple machine learning models

Olga Soloveva, St. Petersburg State University of Telecommunications named after Prof. M.A.Bonch-Bruevich, Russian Federation

Title: Artificial intelligence systems, public administration and medical supplies

Faisal Bin Salem, King Saud University, Saudi Arabia

Title: Degradation of environmentally-friendly stabilized HDPE under accelerated weathering conditions

Poster presentation slots are available
