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MATERIALS 2027

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HYBRID EVENT

18-20 MARCH 2027

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Theme:

Innovations in Materials Science and Engineering for Future Technologies

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Keynote Speakers



Harry Ruda

University of Toronto, Canada



Paulo Cesar De Morais

Catholic University of Brasilia, Brazil



Evgeny Grigoryev

A.G. Merzhanov Institute of Structural Macrokinetics and Problems of Materials Science, Russian Academy of Sciences, Russian Federation



Vasily Lutsyk

Institute of Physical Materials Science, Russian Federation



Mohd Ghulam Haider Zaidi

G.B. Pant University of Agriculture & Technology, India



Manjunatha Channegowda

RV College of Engineering, India



Kamalkishor G. Maniyar

Dr. D. Y. Patil Institute of Technology, India



Nasimuddin

Institute for Infocomm Research, A-STAR, Singapore



S V Ranganayakulu

Guru Nanak Institutions, India

TENTATIVE

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KEYNOTE PRESENTATIONS

Harry Ruda, University of Toronto, Canada

Title: Harnessing the properties of quantum structures for sensing

Paulo Cesar De Morais, Catholic University of Brasilia, Brazil

Title: A proposal of chemical sensor based on polycrystalline Cu2O nanofilm

Evgeny Grigoryev, A.G. Merzhanov Institute of Structural Macrokinetics and Problems of Materials Science, Russian Academy of Sciences, Russian Federation

Title: Features of material structure formation during high-voltage powder consolidation

Vasily Lutsyk, Institute of Physical Materials Science, Russian Federation

Title: Digital twins of Li,La(Pr),K||Cl & Ag-Cu-Ni(Pb) phase diagrams

Mohd Ghulam Haider Zaidi, G.B. Pant University of Agriculture & Technology, India

Title: Ferrofluid mediated synthesis of nanomagnetic polymer materials in supercritical fluids

Manjunatha Channegowda, RV College of Engineering, India

Title: Interpretable AI-enabled electrochemical biosensors: Dendritic Fe_2O_3/graphene nanocomposites for next-generation clinical diagnostics

Kamalkishor G. Maniyar, Dr. D. Y. Patil Institute of Technology, India

Title: Recent advances in metal matrix composites and their emerging industrial applications

ORAL PRESENTATIONS

Mary T. Ajide, University College Dublin, Ireland

Title: A validated machine-learning interatomic potential framework for understanding reactive hematite-water interfaces toward next-generation functional materials

Osman Adiguzel, Firat University, Turkey

Title: Shape memory phenomena and twinning-detwinning reactions and crystallographic transformations in shape memory alloys

Deniz Karzan, Hisar Okulları, Turkey

Title: Production of biodegradable polymeric films from corn

Bo Liu, Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, China

Title: Block copolymers of ethylene and styrene prepared via chain shuttling polymerization

Yong Fan, Wuhan University of Science and Technology, China

Title: Pioneering next-generation vanadium redox flow batteries

Ding Xiao, Zhejiang University, China

Title: Molecularly woven materials for water isotopologue separation

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Wei Wang, Chang'an University, China

Title: Preparation and catalytic performance of porous ceramic filter membranes by biomimetic structure design

Rakesh Manilal Harjivandas Patel, Department of Mathematics, Government Science College, India

Title: Non-Newtonian rheology on curved circular squeeze films using the Rabinowitsch fluid model

Rakesh Manilal Harjivandas Patel, Department of Mathematics, Government Science College, India

Title: Thermodynamic analysis of a combined modified Kalina–GT-MHR cycle with porous medium effects

Arun Kumar Singh, Guru Ghasidas Vishwavidyalaya, India

Title: Solution-processable hybrid materials for high-performance supercapacitor electrodes

Mukesh Chandra Dimri, Jaypee University of Engineering and Technology, India

Title: Influence of deposition conditions on the structural and magnetic properties of YIG thin films

Geetika Verma, K.K. Wagh Institute of Engineering, Education and Research, India

Title: Sustainable microwave absorption using banana leaf-derived activated carbon composites

Bijendra Singh, Central University of Gujarat, India

Title: Nature-inspired photonic transition metal energy systems for enhancing solar energy conversion and enduring sustainable energy storage efficiency

Sushanta Mandal, Thapar Institute of Engineering and Technology, India

Title: Long-range magnetic ordering and structural phase transition in disordered high entropy spinel chromites

Mohamed Hefayathullah, SRM Institute of Science and Technology, India

Title: Gold nanodendrites enriched with gold nanoclusters on carbon-fiber as flexible acetaminophen sensor for clinical diagnostics

Priya Mahato, IIT Gandhinagar, India

Title: Engineering resilient MOFs: Balancing stability, sustainability, and toxicity in doped HKUST-1

Sai Soumya Sri Mattupalli, Birla Institute of Technology and Science-Pilani, India

Title: Droplet evaporation and wetting regime transitions on nature-inspired superhydrophobic soft surfaces

Kanchan Rawat, National Institute of Technology Uttarakhand, India

Title: A DFT study of Mg-substituted A2BiSbO6 double perovskites for photocatalytic water splitting and high-temperature thermoelectric applications

Abdulazeez Basim, University Putra Malaysia, Malaysia

Title: Preparation, characterization, optimization, and application of dimethyl fumarate as solid lipid nanoparticles for treatment of multiple sclerosis

Maria Akram, Duy Tan University, Pakistan

Title: AI-driven multi-criteria decision-making for advanced materials selection using step fuzzy sets

TENTATIVE PROGRAM

Targol Tafakhori, Shiraz University, Iran

Title: Design and fabrication of an artificial vascular graft that mimics the anisotropic mechanical properties of native vessels

Kirubel Tefera Gesho, Dilla University, Ethiopia

Title: Component-level seismic fragility of a typical highway bridge in a moderate intensity zone

Oral presentation slots are available

POSTER PRESENTATIONS

Garva Anup Karmarkar, Vishwakarma Institute of Technology, India

Title: Plant-mediated synthesis of silver nanoparticles and zinc oxide nanoparticles and application of AgNPs for the development of antimicrobial biopolymer films in food packaging

Saicharen Lakshmanan, Sri Sathya Sai Institute of Higher Learning, India

Title: MgO-induced electromechanical hardening of lead-free BNT-BT-KNN piezoceramics for resonant and high-power applications

Anatoliy Trotsan, Institute for Problems of Material Sciences NAS of Ukraine (IPMS), Ukraine

Title: The effect of chemical composition of steels working under impact loads and high temperatures on their structural characteristics and mechanical properties

Wissam Mebarakou, Université Ferhat Abbas Sétif-1, Algeria

Title: Reverse engineering-based development of PP formulations for spunbond and meltblown nonwovens

Poster presentation slots are available