LOVELY PROFESSIONAL UNIVERSITY

Transforming Education Transforming India

NAAC GRADE A++

MAM-2026

International Conference on Multi-Functional Advanced Materials

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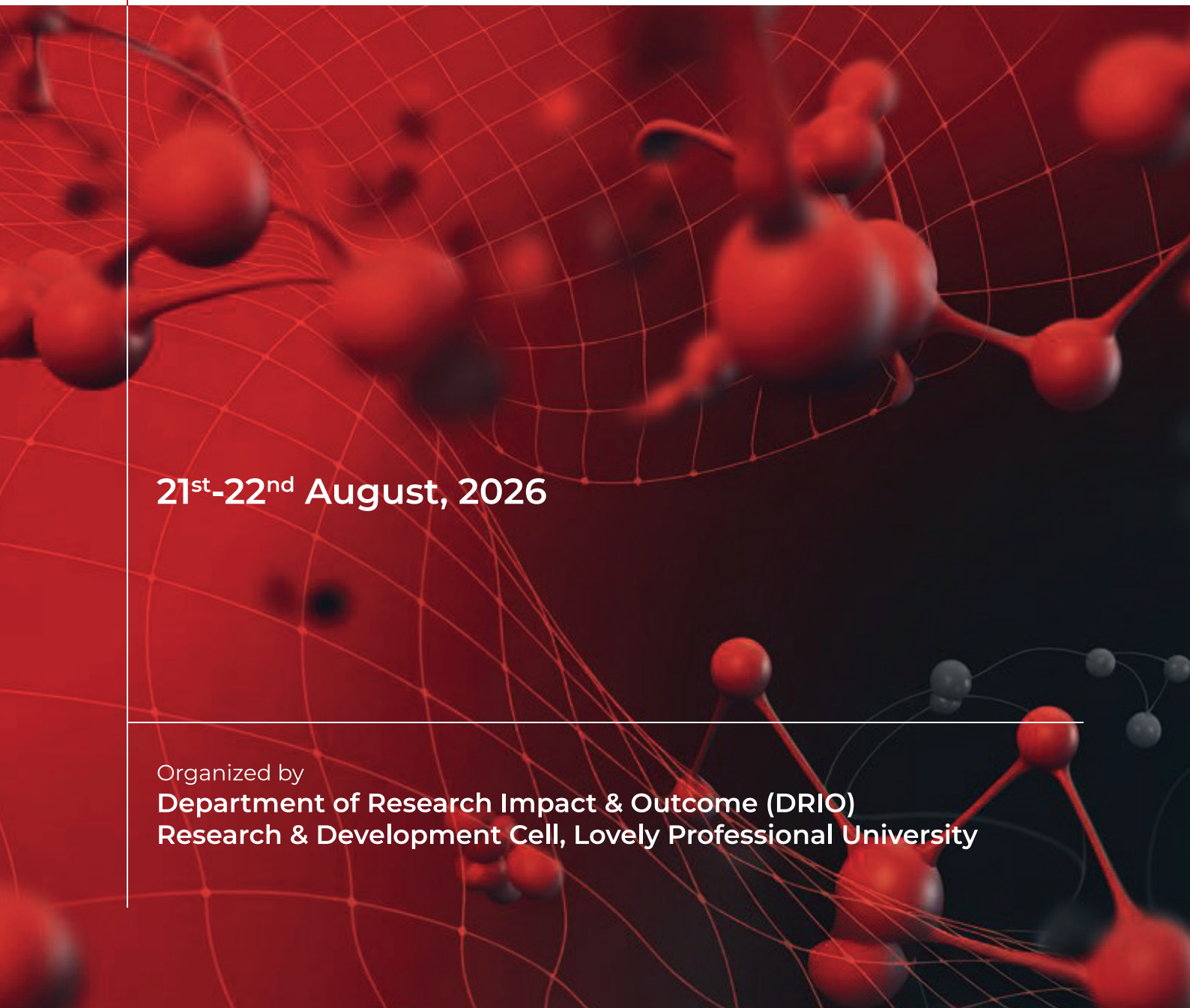

21st-22nd August, 2026

Organized by

Department of Research Impact & Outcome (DRIO)

Research & Development Cell, Lovely Professional University

LOVELY PROFESSIONAL UNIVERSITY

Lovely Professional University (LPU) is a multi-faculty research-oriented institution with hi-tech campus offering more than 200 professional programmes. LPU campus is a complete world in itself having students from all states of India and more than 40+ countries of the world. LPU is a world class institution with internationally benchmarked curricula, innovative pedagogy focused on experiential learning, cutting edge research, 450+ foreign tie-ups, well qualified faculty with industry exposure, outstanding sports & cultural facilities, excellent residential facilities, In-campus shopping mall, hospital, banks, postal services etc. The University is ranked high on various parameters by Government Bodies and other credible organisations. LPU receives Highest Grade A++ with 3.68 score on 4 Point Scale by NAAC (National Assessment & Accreditation Council), an Autonomous Institution of the University Grants Commission (UGC), Ministry of Education, Govt. of India. The Times Higher Education World University Rankings 2025 has ranked LPU amongst Top 10 Universities in India Including all Government (even IITs & NITs), & Private Institutions, and many more.

About The Conference

International Conference on Multi-Functional Advanced Materials (MAM-2026) aims to bring together researchers, academicians, industry experts, and policymakers to exchange knowledge and showcase innovations in next-generation materials and technologies. The conference will serve as a global platform to discuss recent advances, emerging trends, and real-world applications of multifunctional materials that address industrial, energy, environmental, and societal challenges.

The conference will cover a wide range of thematic areas, including advanced functional and smart materials, nanomaterials and nanocomposites, biomaterials and healthcare materials, sustainable and green materials, energy storage and conversion materials, additive manufacturing and advanced processing, surface engineering and coatings, computational materials science and AI-driven materials design, polymeric and hybrid materials, structural and high-performance materials, materials for environmental remediation and water purification, and characterization and testing techniques. In addition, special sessions will focus on industry-academia collaboration, technology transfer, and commercialization pathways.

ICMAM-2026 aims to foster interdisciplinary collaboration, encourage young researchers, and promote innovative solutions for sustainable technological development. The conference will include keynote lectures, invited talks, technical sessions, poster presentations, and panel discussions, creating opportunities for networking and partnerships that drive scientific progress and industrial impact.

Objectives

- To provide an international platform for researchers, academicians, industry professionals, and students to present advancements and challenges in multifunctional advanced materials.
- To review current research trends and technological developments in materials science, processing, and manufacturing for diverse industrial and societal applications.
- To promote interdisciplinary collaboration and exchange of innovative ideas in smart materials, nanotechnology, additive manufacturing, and sustainable material systems.
- To strengthen industry–academia interaction by enabling experts and leaders to share experiences, best practices, and emerging technological solutions.
- To encourage young researchers to participate, showcase research outcomes, and build global collaborations supporting innovation and sustainable development.

Local Organizing Committee

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Call For Papers

Track 1: Functional, Smart and Advanced Materials

- Ferrous and Non-ferrous Materials
- Composites and Hybrid Materials
- Nanomaterials and Nanostructured Materials
- Functional and Smart/Intelligent Materials
- Polymeric, Ceramic and Biomaterials
- Thin Films and Coatings
- Mechanical Behavior, Fracture and Reliability
- Materials Characterization and Properties
- Sensors, Actuators and Active Materials
- Energy Storage and Energy Harvesting Materials
- Quantum Materials and Metamaterials
- Electronic, Optical and Magnetic Materials

Track 2: Advanced Manufacturing and Processing Technologies

- Conventional and Non-Conventional Machining
- Hybrid and Advanced Finishing Processes
- Surface Engineering and Coatings
- Forming, Joining and Welding Technologies
- Additive Manufacturing and 3D Printing
- Laser and Micro-Machining
- Microwave and Advanced Materials Processing
- Bio-manufacturing and Sustainable Manufacturing

Track 3:
Modeling, Simulation and AI in Materials & Manufacturing

- Computational Materials Science
- Modeling and Simulation of Processes
- Finite Element and Numerical Techniques
- AI, Machine Learning and Optimization
- CAD/CAM/CAE and Digital Manufacturing
- Process Monitoring and Control
- Tribology and Multiphysics Modeling
- MEMS and Nanomechanics

Track 4:
Mechanical, Functional and Performance Properties

- Fracture, Fatigue and Damage Mechanics
- Tribology and Wear Behavior
- Corrosion and Environmental Degradation
- Creep and High-Temperature Behavior
- Interfaces and Interphases
- Structural Integrity and Reliability
- Functional, Electrical and Magnetic Properties

Track 5:
Sustainable Materials and Circular Manufacturing

- Sustainable and Green Materials
- Life Cycle Assessment and Lifecycle Engineering
- Circular Economy and 6R Strategies
- Recycling, Recovery and Remanufacturing
- Energy-Efficient Manufacturing Systems
- Low-Carbon Processing Technologies
- Resource Optimization and Waste Minimization
- Sustainable Design and Eco-friendly Processes

Track 6:
Fabrication and Synthesis of Functional Materials

- Advanced synthesis techniques for functional materials
- Thin film deposition and coating technologies
- Powder metallurgy and sintering
- Chemical, electrochemical and sol-gel methods
- Nanofabrication and microfabrication
- Scalable and industrial fabrication routes
- Process–structure–property relationships
- Fabrication of multifunctional and hybrid materials

Track 7:
Energy Storage and Conversion Devices

- Battery Materials and Technologies (Li-ion, Na-ion, Solid-state)
- Supercapacitors and Hybrid Storage Systems
- Hydrogen Storage Materials
- Fuel Cells and Electrochemical Systems
- Materials for Solar and Energy Harvesting Devices
- Thermal Energy Storage
- Performance, Safety and Degradation Studies
- Next-generation energy storage materials

Track 8:
Fabrication and Synthesis of Functional Materials

- Nanomaterials for biosensing (CNTs, graphene, MXenes)
- Electrochemical, optical, and piezoelectric biosensors
- Wearable and implantable biosensors
- Lab-on-chip and microfluidic sensing platforms
- AI-assisted biosensing and signal processing
- Point-of-care diagnostics and healthcare monitoring
- Flexible and printable biosensor materials
- Bio-interface engineering and surface functionalization
- Environmental and food safety biosensors
- Smart biosensing systems for IoT applications

Track 9:
Ferrites, Magnetic Nanomaterials and Spintronic Applications

- Spinel ferrites and hexaferrites
- Magnetic nanoparticles and nanocomposites
- Ferrites for EMI shielding and microwave absorption
- Soft ferrites for power electronics and transformers
- Magnetic materials for sensors and actuators
- Multiferroic and magnetoelectric materials
- Ferrites in biomedical applications (hyperthermia, drug delivery)
- Thin films and ferrite coatings
- Ferrites for energy harvesting and storage
- Computational modeling and magnetic characterization

Keynotes Speakers

Prof. Jen-Hwa Hsu
National Taiwan University (NTU),
Taiwan

Prof. H.M. David Wang
National Chung Hsing University
Taiwan

Prof. A. C. Sun
Yuan Ze University, Taiwan

Prof. Yassine Slimani
Imam Abdulrahman Bin Faisal University
(IABFU), Saudi Arabia

Dr. Nikhil Bhalla
Ulster University, United Kingdom

Dr. Satish Kumar
Professor & Dean Research & Consultancy,
Nodal officer Research Innovation Park,
National Institute of Technology,
Jamshedpur, India

Prof. R. P. Tandon
Professor, University of Delhi
India

Prof. Kaushik Pal
Professor and Head,
Advanced Composites Lab Indian
Institute of Technology, Roorkee, India

Prof. Ramamoorthy Ramesh
Professor and Vice President of Research
Rice University, USA

Dr. Satish Tailor
GM-R&D & Chief Scientist &
Thermal Spray Technocrat Metallizing
Equipment Co. Pvt. Ltd., Jodhpur-India

Prof. Niraj Bala
Professor and Head,
National Institute of Technical
Teachers Training & Research Chandigarh,
India

Dr. Preeti Thakur
Professor & Head,
Amity Institute of Nanotechnology

Dr. Ganga Ram Chaudhary
Professor, Punjab University,
Chandigarh, India

Dr. Monika Sharma
Associate Professor,
Dr YS Parmar University
of Horticulture & Forestry,
Himachal Pradesh, India

Dr. Arijit Chowdhuri
Professor,
University of Delhi, India

Prof. Anup Thakur
Professor,
Punjabi University, Patiala,
India

Dr. Pravendra Kumar
Ex-Director, DRDO, India

Dr. Anupama Thakur
Professor, Dr. S. S. Bhatnagar
University Institute of Chemical
Engineering & Technology,
Panjab University, Chandigarh,
India

Prof. Christ P. Paul
Raja Ramanna Centre for
Advanced Technology, Indore
Department of Atomic Energy,
India

Dr. Varun Sharma
Indian Institute of Technology,
Roorkee, India

Dr. Varun Dutta
Shri Mata Vaishno
Devi University (SMVDU)
J&K, India

Dr. Sunny Zafar
Indian Institute of Technology
Mandi, India

Registration Fees

Conference Proceedings	Registration and Conference Fee [INR] Early Bird On/Before 20th June, 2026	Registration and Conference Fee [INR]	Early Bird International [USD] On/Before 20th June, 2026	International [USD]
Participation/ Presentation Registration Fee	1500	2500	100	200
Research Scholars Registration and Publication Fee	10500	12500	300	400
Faculty/Post-Docs/ Research Centre's Registration and Publication Fee	12000	14000	500	600
Industry	15000	17000	700	800

Important Dates

Paper Submission Starts	April 10, 2026
Paper Submission Closes	Aug 20, 2026
Registration Open	April 1, 2026
Registration Closes	Aug 22, 2026
Conference Dates	August 21-22, 2026

Paper Submission

Participants are invited to submit full-length papers through the following **Google Form: https://forms.gle/xmTBnjhXxw3Mqbv16** .

Submitted manuscripts will undergo peer review, and only those with a plagiarism level of up to 10% and free from AI-generated content will be considered for potential publication in Scopus/WoS-indexed proceedings, journals, special issues, or books.

Instructions for Authors for preparing manuscript

- Authors are required to prepare the manuscript in English using Times New Roman font (size 12), typed in single spacing on standard A4-sized paper. The manuscript should include the following major components: Title, names of all authors, identification of the corresponding author, email address, affiliations of all authors, abstract, keywords, introduction, methodology, and results and discussion. Figures and tables should be appropriately placed within the text.Abstract should be written within 150-200 words.

- The title should be precise, short and informative. Title should be followed by author's names and their affiliation.

- Paper presenter's name must be highlighted in the manuscript.

- References must be provided in one style throughout the manuscript.

- The list of Scopus/WoS indexed Proceedings/Journal/Special issues/Book will be provided soon on conference website https://www.lpu.in/conferences/mam/.

- Visit the conference website for registration and other details.

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