



ROHINI
COLLEGE OF ENGINEERING & TECHNOLOGY
Approved by AICTE and Affiliated to Anna University (An ISO Certified Institution) Accredited with A+ Grade by NAAC
Recognized under Section 2(f) of University Grants Commission, UGC Act 1956
(AUTONOMOUS)



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7th International Conference on Trends in Material Science and Inventive Materials



IEEE



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IEEE Power and Energy Society (IEEE
PES)

ICTMIM 2027

18-20 March 2027

ABOUT THE CONFERENCE

The 6th edition of the International Conference on Trends in Material Science and Inventive Materials (ICTMIM 2027) will explore the synergy between materials science, and inventive materials with a focus on the evolution of renewable energy materials and their impact on various applications. This conference will focus on innovations in materials that enhance energy storage systems, explore the realm of smart materials and emphasize the role of sustainable materials in energy and environmental applications. ICTMIM 2027 will bring together leading experts to discuss the challenges and opportunities associated with these cutting-edge materials and their integration into real-world applications. Through a rich program of keynote speeches, plenary sessions, and technical presentations, ICTMIM 2027 will encourage the exchange of ideas and knowledge, inspiring state-of-the-art research and collaborations that drive the next generation of renewable energy technologies.

CALL FOR PAPERS

Advanced Energy Storage Materials

- Next-generation lithium-ion and solid-state batteries
- Advanced supercapacitor materials and design
- Novel cathode and anode materials for batteries
- Energy density and efficiency improvements in storage systems
- Thermal management solutions for battery systems
- Lifecycle assessment and recycling strategies for energy storage
- Hybrid energy storage systems (e.g., battery-supercapacitor combos)
- Emerging materials for flow batteries
- Impact of nanotechnology on battery performance
- Strategies for scaling energy storage technologies for grid applications

Smart and Functional Materials

- Development of adaptive materials for energy applications
- Innovations in piezoelectric materials and devices
- Shape memory alloys for energy efficiency improvements
- Self-healing materials in renewable energy systems
- Smart sensors for energy monitoring and management
- Thermoelectric materials for waste heat recovery
- Materials for energy-harvesting devices
- Impact of machine learning on smart materials design
- Multifunctional composites for energy applications
- Real-world applications of functional materials in power systems

Sustainable and Renewable Resource Materials

- Biodegradable materials for energy applications
- Innovations in organic photovoltaics
- Advances in wind turbine blade materials and design
- Sustainable materials for hydropower systems
- Life cycle analysis of renewable energy materials
- Use of recycled materials in energy technologies
- Green chemistry approaches to material synthesis
- Nanomaterials for enhancing solar cell efficiency
- Development of bio-based polymers for energy applications
- Environmental impact of materials used in renewable energy systems

MANUSCRIPT SUBMISSION

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ABOUT THE COLLEGE

Rohini College of Engineering and Technology (RCET) was established in the year 2012 by Shri.K.Neela Marthandan and now managing by his son Dr.N.Neela Vishnu. The institution is approved by AICTE and affiliated by Anna University, Chennai. The college became autonomous, UGC approved, in 2024 and has been effectively practising outcome based education. The college is accredited by National Assessment and Accreditation council [NAAC] with the grade of 'A+' and a CGPA of 3.46 on a scale of 4. B.E. Electronics & Communication Engineering, B.E. Electrical & Electronics Engineering and B.E. Mechanical Engineering have been accredited by NBA. The college currently offers 9 undergraduate and 8 post graduate programme.

CONFERENCE COMMITTEE

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PUBLICATION

All registered and presented papers will be submitted for inclusion into IEEE Xplore.

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Category	IEEE PES Member	IEEE Member	Non-IEEE Member
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Indian Listener	8,500 INR	9,000 INR	9,500 INR
Foreign Authors	130 USD	150 USD	170 USD



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