

### Best paper presentation on each session

Session	Theme	Paper ID	Presenter and abstract title
1A	Fire	69	<b>Niranjana V S</b> Exploring the Triboelectric Potential of Electrospun PVDF/Si-HBP (GEN-2) Blends for Energy-Harvesting Applications
		118	<b>Ritisha Kale</b> A Comprehensive Approach to Bio-Sludge Pyrolysis: Kinetic Modeling, Thermodynamic Analysis, and Machine Learning Predictions
1B	Space	80	<b>Pragnya Pradhan</b> Impacts of Seasonal Climate Variability on Cyclone Activity over the Arabian Sea
2A	Air	06	<b>Smita Mondal</b> Performance Evaluation of Ferrofluids in Enhancing Post-Combustion CO2 Capture Efficiency
2B	Water	25	<b>Amrutha B</b> Performance of MoS2-doped PVDF-HFP Nanofiberbased Triboelectric Nanogenerator for Smart City Sensing
3A	Fire	82	<b>Parvathy Purushothaman</b> The suitability of Nickel foam as a current collector in supercapacitor applications
		95	<b>Dr. Rawal Diganjit</b> Design and development of solar air heater for drying clothes using analytical method
3B	Water	40	<b>Megha Mohan</b> Optimization of water flux of MWCNT incorporated desalination membrane using RSM
4A	AI	190	<b>Aprameya C R</b> AI-Driven Microcontroller-Based Smart Direction Valve for Sustainable Solar Water Management in Multi-Story Buildings
4B	Water	103	<b>AKHIL ARAVA</b> A Smart Water Distribution Framework: Cyber-Physical Testbed for Industry 4.0 Automation and Resilient Network Operations
5A	Fire	128	<b>Abhishek S</b> Machine learning modeling in nanocomposite synthesis using carbon nanotube embedded with polypyrrole for supercapacitor application.
5B	Earth	98	<b>ANAND PRABU</b> FTIR-GIRAS as an Effective Tool for Measuring Crystalline Phase Transitions in PVDF As-cast and Spincast Samples
6	Earth	140	<b>Bhargav V J K</b>

			Synthesis and characterization of Borosilicate nanoparticles using ES- $\mu$ -ECDM system
7	Earth	73	<b>V. Hema Malini</b> CoFe <sub>2</sub> O <sub>4</sub> /PVDF nanofiber mats as flexible triboelectric sensors for healthcare and polysomnographic monitoring
8	Miscellaneous	211	<b>Rubesh R</b> Development and optimization of fuel pellets from coal fines, Phosphate sludge, and ETP sludge.
9	AI	163	<b>Hemant Kumar Bajaj</b> Machine Learning-Based Optimization for Hydrogen Production from Pyrolysis of low-rank coal

### Best 3 UG, PG & PhD Presentations

	Paper ID	Presenter and abstract title
UG	27	<b>Piyush Kumar</b> Synthesis of Dust Suppressant using Lignin from Industrial Waste
	34	<b>Vishnu Iyer</b> Machine learning- and computational thermodynamics-based design of Deep Eutectic Solvents for extracting Lithium from low-concentration sources
	65	<b>Ishita Mandal</b> Design of Plate type heat exchangers for Absorption based carbon capture plants for Indian power plants
PG	82	<b>Parvathy Purushothaman</b> The suitability of Nickel foam as a current collector in supercapacitor applications
	119	<b>Malavika P V</b> Thermal Decomposition and Kinetic Modeling of Medical Plastic Waste Using TGA and Machine Learning
	197	<b>Vikas D Nayak</b> Advancing Renewables with Sustainable Phase Change Materials for Energy Storage Applications
PhD	103	<b>AKHIL ARAVA</b> A Smart Water Distribution Framework: Cyber-Physical Testbed for Industry 4.0 Automation and Resilient Network Operations
	35	<b>V. Prasanna</b> Machine Learning for Fungal Pectinase Classification: A Sustainable Approach to Enzyme Discovery
	40	<b>Megha Mohan</b> Optimization of water flux of MWCNT incorporated desalination membrane using RSM