



INTERNATIONAL CONFERENCE ON
CHEMICAL ENGINEERING SCIENCES:
ADVANCES IN ENERGY HARVESTING AND
STORAGE : CHEMSCAPE 2025



POSTER SESSION

Poster Code	Name	Affiliation	Title
OP1-A-1	Siddi Santhosh	Saintgits College of Engineering	Nanomaterials and functional materials for energy
OP1-A-2	Vishnuvardhan Reddy Guvvala	Rajiv Gandhi University of Knowledge Technologies, RK Valley, Andhra Pradesh	Photocatalytic degradation of tetracycline using BiOBr biopolymer-based hydrogels
OP1-A-3	Hritankhi Tripathy	NIT Rourkela	Engineered In ₂ S ₃ -Based Ternary Photocatalytic Hydrogels for Pollutant Degradation via Sunlight and Energy Production
OP-A-4	Saiswapna Rautaray	NIT Rourkela	Extraction of valeric acid from dilute aqueous solution using methanol based hydrophobic deep eutectic solvents.
OP-A-5	K.Bidhya Devi	NIT Rourkela	Preparation of carbon nitride homojunction/bi ₂ s ₃ nanocomposites for sustainable ammonia generation
OP-A-6	Beema Noushad, Aaron M Mathew	Saintgits College of Engineering	Sustainable Iron Modified Biochar from nutmeg shell
OP-A-7	Emmanuel Sebastian Kunnel	IIT Kharagpur	Sustainable Energy Conversion via Hybrid Type II/Z schemes/gC ₃ N ₄ /Bi ₂ WO ₆ Photocatalytic Hydrogels for Enhanced H ₂ O ₂ Generation
OP-A-8	Asha S, Gowthaman M, Monika D	Paavai Engineering College (Autonomous)	Herbal nanocarrier spray of achyranthes aspera for Enhanced cutaneous Wound Healing
OP-A-9	Kavish K., C Dhanush, Mohammad	Paavai Engineering College	Microbial nanocarrier-loaded lithium oxide; A novel therapeutic strategy for targeted skin wart removal



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	Halithu S, D. Santhosh	(Autonomous), Tamil Nadu	
OP-A-10	S.Saktheeshwa ran, K Sunil, RAJAMANIKAN DAN J	Paavai Engineering College (Autonomous), Tamil Nadu	EVALUATION AND CHARACTERIZATION OF A DRY POWDER INHALER FORMULATION FOR IMPROVED ASTHMA CONTROL
OP-A-11	Anara Bintu, Devi Nandana S, Devi Pavithra S, Yuvasri	Saintgits College of Engineering	Carbon dioxide Capture, Utilization ,and Storage Using Amine-Based Chemical Absorption
OP-A-12	Soundarya Santhosh, Jayshankar Menon, Hafiz Rahuman, Ithihas SG, Ajay	TKM College of Engineering, Kollam	Pyrolysis Reactor Design Of Biomass Reactor Us-ing TGA Derived Kinetics For Cashew Nut Shell
OP-A-13	Bhagyalakshmi R, Soundarya Santhosh, Gadha S, Shifa Rasheed	TKM College of Engineering, Kollam	Environmental Impact of Black Sand Mining in Alappad: Towards Sustainable Mineral Utilization in a Circular Economy Framework
OP-A-14	Renah Riyas, Sidharth NS, Ashway PK, AL Mubarak N	TKM College of Engineering, Kollam	Thermogravimetric Analysis of Pistachio Shell Bio-mass Pyrolysis for Biofuel Applications
OP-A-15	Abinand A	Paavai Engineering College	Evaluation And Characterization Of A Dry Powder Inhaler Formulation For Improved Asthma Control



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		(Autonomous), Tamil Nadu	
OP-A-16	Shahana Hussain	TKM College of Engineering, Kollam	Integrating AI and IoT for Sustainable Production and Supply Chain Management
OP-A-17	Nilofar Sulthana Saidu, MM Mukthar, Fathima S H, Theertha M, Abdulla Razin C.E.V	TKM College of Engineering, Kollam	Demonstrating Sustainable Waste Management through Renewable Energy Generation via Pyrolysis of Loranthus Biomass Using TGA-Derived Kinetic and Thermodynamic Data
OP-A-18	Kanchana Shaji	TKM College of Engineering, Kollam	Construction Of Uv-C Chamber With A Non-Conventional Energy Source .
OP-A-19	Aswati B Prasad	TKM College of Engineering, Kollam	Eco-Friendly Insoles: Sustainable Solutions From Coconut Husk And Banana Fibre
OP-A-20	Ahmed Yaseen S, Shifa Rasheed, Navaneeth R, Muzammil Basheer	TKM College of Engineering, Kollam	Kinetic Analysis and Pyrolysis Reactor Design for Sugarcane Bagasse: A Thermo-Gravimetric Study
OP-A-21	Prarthana Pramod, Amrutha S, Anusreya Hari, Anamika US	Saintgits College Of Engineering	Energy Harvesting For Biomedical Implants And Sensors Using Glucose Based Biofuel cells
OP-A-22	Joshiya Mary Jacob, Sarangi	Saintgits College Of Engineering	Hybrid thermal battery using phase change material and thermo chemical storage



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	Subash, Adith A V		
OP-A-23	Dwija Nair, Aswin EJ, Naveen S Lal, Minnu Elizabeth Sajan	Saintgits College Of Engineering	Development of HEMA-encapsulated graphene quantum dot-paraffin hybrid nanofluids with enhanced properties for thermal management applications
OP-A-24	Roshan Rajesh	Saintgits College Of Engineering	Synthesis and Mechanical evaluation of Clerodendrum Infortunatum and Pineapple leaf fibre reinforced hybrid composites
OP-A-25	Derin Elsa Eby, Nivin George, Mohammed Shahzad TS	Saintgits College Of Engineering	Duck Feather Based Nano-Catalyst For Environmental Friendly Biodiesel Synthesis
OP-A-26	Johan Biju Thomas, Archana Madhave, Amal Mathew	Saintgits College Of Engineering	Vacant-Rich Carbon Nitride Homojunction Hydro-gels for Hybrid Photocatalytic-Self-Fenton-Persulfate Oxidation: Kinetics, Continuous-flow, Toxicity, and Mechanistic Studies
OP-A-27	Neha Nasrin P	Mahatma Gandhi University	Bridging Power and Energy: Magnetohydrodynamic Enhancement of NiS ₂ -Based Supercapacitors
OP-A-28	Arya Unnikrishnan	Mahatma Gandhi University	Upcycling LiCoO ₂ from Spent Lithium-Ion Batteries into Co ₃ O ₄ Nano catalysts for Sustainable Hydrogen Energy Production.
OP-A-29	Raees, Nevin Monsoon Mathew, Nikita Shammy	Saintgits College Of Engineering	Bioethanol production from coconut coir dust



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OP-A-30	Vinuthna Vezawada, Avinash yedelli	Osmania University, Andhra Pradesh	Integrating circular economy principles in waste to energy systems: challenges and opportunities for sustainable development
OP-A-31	Anagha Chandram, Alvin Tenny, Sara Shiby	Saintgits College Of Engineering	Defect rich carbon nitride based homojunction hy-drogel as effective photocatalysts for sustainable ammonia generation
OP-A-32	Nikita Zara Renji, Abhishek Chandran, Devasenapathi Girish	Saintgits College Of Engineering	Green energy harvesting using carrageenan based triboelectric nanogenerator with embedded ZnO nanoparticles
OP-A-33	Prarthana Pramod, Anusreya Hari, Amurtha S, Anamika U. S., Adithya Anil	Saintgits College Of Engineering	Energy harvesting for biomedical implants and sensors using glucose-based biofuel cells
OP-A-34	Milan Tom Joseph, Abdul Rauf K. S, Anjana Aji, Sneha Chandran M. L, Mohit Jacob	Saintgits College Of Engineering	