

**INTERNATIONAL CONFERENCE ON
ADVANCED MATERIALS FOR CLEAN ENERGY AND HEALTH APPLICATIONS (AMCEHA 2026)**

June 3-5, 2026

PROGRAMME SCHEDULE

DATE	TIME	PROGRAMME		
03.06.2026 Wednesday Day 1	04.20 to 05.00 pm	RAPID FIRE PRESENTATIONS		
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
		MS 102 -104, HL 131 - 134	HD 6 – 9, SLR 19 – 22	HL 135 - 144

Date	Time	PROGRAMME		
04.06.2026 Thursday Day 2		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
	11.00 to 12.00 pm	ORAL PRESENTATIONS		
		MS 93-101	HD 1 – 5, ES 23 – 25	HL 114 – 122
	12.00 to 12.30 pm	RAPID FIRE PRESENTATIONS		
		ES 37 - 45	ES 46 - 56	-
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
	02.10 to 03.20 pm	ORAL PRESENTATIONS		
		HL 105 -113	AFM 57 – 66	ES 26 – 36
	03.30 to 04.00 pm	RAPID FIRE PRESENTATIONS		
		AFM 85 – 92	AFM 77 - 84	EMT 150 – 162
04.00 to 05.00 pm	POSTER PRESENTATIONS			

Date	Time	PROGRAMME		
05.06.2026 Friday Day 3	11.30 am to 01.00 pm	ORAL PRESENTATIONS		
		<i>TLC Lecture Hall</i>	<i>TLC Training Room 3</i>	<i>TLC Training Room 4</i>
		SLR 10 – 18	AFM 67 – 76, EMT 145 – 149	HL 123 - 130

**INTERNATIONAL CONFERENCE ON ADVANCED MATERIALS
FOR CLEAN ENERGY AND HEALTH APPLICATIONS (AMCEHA 2026)**

03 - 05, June 2026

1. HYDROGEN ENERGY: GENERATION, STORAGE & APPLICATIONS IN TRANSPORT AND INDUSTRY

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
HD1	81	Tuneable NiFe ₂ O ₄ /Carbon Sphere Nanocomposites for Overall Water Splitting	ORAL	Deepika Chinniah
HD2	122	Metal-Driven Evolution of ZIF-8 to Functional ZIF-8/MOF Hybrids toward Efficient Photoelectrochemical Water Splitting and Photocatalytic Hydrogen Evolution	ORAL	Jaya Shree K S
HD3	142	Mesoporous SrTiO ₃ /rGO Nanohybrids via Pluronic P127 for Improved Bifunctional Electrocatalytic HER and OER Performance	ORAL	Savithri Mylsamy
HD4	198	Multi-Heteroatom Doped Graphene-Supported Ruthenium Catalysts for Efficient Water Splitting	ORAL	Sange Sherpa
HD5	215	Fabrication of metal carbide nano-catalytic surfaces for hydrogen evolution reaction by ion implantation	ORAL	John Kennedy
HD6	117	Fabrication of Pt-Fe ₃ O ₄ Nano particles on rGO for Direct Methanol Fuel Cell applications	POSTER	A V Durga Kishor Reddy
HD7	130	3D Hierarchical Organic Acid-Assisted Nickel-Based LDH Nanoarchitectures for High-Efficiency Hydrogen Evolution Reaction and Supercapacitor Applications	POSTER	Elamaran M
HD8	214	Development of CoTiO ₃ -based heterojunction for photocatalytic water splitting	POSTER	Kajani Mayaheswaran
HD9	271	Ethylene Glycol Modified MgCo ₂ O ₄ as a Cost-Effective and Stable Electrocatalyst for Alkaline Hydrogen Evolution Reaction Application	POSTER	Anne M

2. SOLAR ENERGY MATERIAL & APPLICATIONS

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
SLR10	58	Comparative Study on Biomass-derived Activated Charcoals as Low-Cost Electrode Material for DSSC and Supercapacitor	ORAL	Rajaramanan Tharmakularasa
SLR11	71	Influence of doctor blade-controlled TiO ₂ photoanode thickness variation on the photovoltaic performance of Dye-sensitized solar cells	ORAL	Gamal Herath
SLR12	114	Overcoming the voltage deficit in FAPbBr ₃ solar cells through surface passivation	ORAL	Loheeswaran Selvadurai
SLR13	119	1,3-Diaminopropane dihydroiodide passivation for stabilized halide distribution in mixed-halide perovskite solar cells	ORAL	Saisankar Sunthareswaran
SLR14	163	Fe/N Co-doped TiO ₂ : A Promising Photoelectrode Material for Photovoltaic Application	ORAL	Piranave Sriharan
SLR15	177	Low-dimensional surface passivation for enhanced stability of FAPbBr ₃ perovskite thin films	ORAL	Harini Haritharan
SLR16	218	Correlating Sequentially Processed Sb ₂ (S,Se) ₃ Absorber Layer Properties using SCAPS-1D simulations	ORAL	Noodhana Jeevanantham

SLR17	234	Pyro-Phototronic Non-centrosymmetric Orthorhombic NaBiS ₂ : Broadband Self-Powered Photodetectors for Encrypted Optical Communication	ORAL	Edita Joseph
SLR18	235	Single-walled carbon nanotube intercalation in lead-free halide perovskite for ultrasensitive UV photodetection	ORAL	Darsana Sudarsan
SLR19	62	Combining non-selective and selective optical designs for scalable and high-efficiency transparent solar windows	POSTER	YeCharn Shin
SLR20	217	Low-Cost Synthesis of Sn-Doped TiO ₂ Photoanodes for Enhanced Charge Transport in DSSCs	POSTER	Vithurshini Paramalingam
SLR21	261	Plasmon-Enhanced CuO/rGO Counter Electrodes for Next-Generation DSSCs	POSTER	Allwin Rajesh Somu
SLR22	288	Performance Analysis And Optimization of A 5 Kw Rooftop Solar Pv System	POSTER	Maroof N E

3. ENERGY STORAGE: BATTERIES & SUPERCAPACITORS

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
ES23	78	Ferrous Ammonium Phosphate and Carbon Sphere with VOSO ₄ Redox Electrolyte for Supercapacitor	ORAL	Mohammed Eliyas
ES24	80	Synergistic Ba ₂ WO ₅ /NiO Heterostructured Nanocomposites for Supercapacitor	ORAL	Sharmila T
ES25	83	Rational Engineering of Co ₃ O ₄ -Nd ₂ O ₃ Nanocomposites Integrated with rGO and g-C ₃ N ₄ for High-Performance Supercapacitor Applications	ORAL	V Balaji
ES26	181	Synergistic Effect of Mn-MOF and Carbon Microspheres in a Hybrid Architecture for High-Performance Supercapacitors and Overall Water Splitting	ORAL	Sree Sivalika
ES27	196	Tailoring Calcination Conditions for Highly Efficient Bifunctional MOF-Derived Catalysts for Zinc-Air Batteries	ORAL	Samanyu Acharjya
ES28	211	Electrochemical investigation of structurally altered strontium cobalt oxide perovskite by substituting aliovalent dopant and its application in super capacitor.	ORAL	Rajesh P
ES29	239	Effect of functional groups on the surface of pristine and spent graphite-derived graphene oxide for aqueous Zn-ion battery applications	ORAL	Swapnika Suresh
ES30	243	Hydrothermal Synthesis of g-C ₃ N ₄ /Cu ₂ S Nanocomposites for High-Performance Solid-State Symmetric Supercapacitors with Real-Time LED Demonstration	ORAL	Sathesh S
ES31	249	Thermal Plasma Synthesized CoFe ₂ O ₄ and Vanadium-Doped CoFe ₂ O ₄ Nanoparticles for High-Performance Supercapacitor Applications	ORAL	Bharani N
ES32	276	Ti ₃ C ₂ T _x Mxene Nano Architecture for the Application of Hybrid Supercapacitor Device	ORAL	T Keerthana
ES33	277	Bioinspired Natural Fibre/NiCoO ₂ Nanocomposite Electrodes with Superior Mechanical Flexibility and Enhanced Charge Transport for High-Performance Energy Conversion Applications	ORAL	Arun M
ES34	289	Spinel-Type Ni(Sb)CoO ₄ as a High-Performance Electrode Material for Asymmetric Supercapacitors	ORAL	S. Charis Caroline
ES35	295	Synthesis of nitrogen-incorporated graphitic carbon powder from spent graphite crucibles by thermal plasma technique	ORAL	Vijay Dhanabal M H
ES36	170	Bifunctional MOF-Derived MnO ₂ /Carbon Composites as High-Performance Electrodes for Supercapacitors and Hydrogen Evolution Reaction	ORAL	Iniyaraja Devadass

ES37	63	Development of transparent supercapacitors with copper oxide nanowires/MXene network for Electrode	POSTER	jungan Lim
ES38	88	Sustainable NiFe ₂ O ₄ /rGO Nanocomposites Derived from Spent Li-Ion Batteries for High-Performance Supercapacitor Applications	POSTER	Lakshmi chinnadurai
ES39	139	Upycled Polymer-Derived Carbon–Metal Oxide Composite for Sustainable Supercapacitor Applications	POSTER	Ramachandira V
ES40	160	Synergistic Hybridization of Mn/Ni ₃ V ₂ O ₈ doped AC Nanocomposite for Enhanced Pseudocapacitive Energy storage	POSTER	Yuvasri Kumararaja
ES41	162	New Class of Novel Nano-Dimensional Ternary Mixed Oxide Composite Electrode Materials for Energy Preservation	POSTER	Jeyarani Thangapandi
ES42	172	Synthesis and Characterization of Co-Doped MgO Nanomaterials for Enhanced Supercapacitor Applications	POSTER	Praveen Kumar D
ES43	186	Design and Electrochemical Evaluation of PPy/GO–Fe ₂ O ₃ Nanocomposite Electrode for Energy Storage Applications	POSTER	Bharathi
ES44	240	Green Synthesis of SnO ₂ Nanoparticles Using Clitoria ternatea: Influence of Annealing Temperature on Photocatalytic and Electrochemical Performance	POSTER	Indraja S
ES45	247	FPGA - Based Adaptive Energy Management of Hybrid Battery –Supercapacitor Systems Under Dynamic Processor Loads	POSTER	Vidhun Ram
ES46	250	Engineering Polypyrrole Integrated MXene and Reduced Graphene Oxide as Biocompatible Electrode Materials for Supercapacitors	POSTER	Jemini Jose
ES47	251	Effect of Synthesis Route and Surfactant Assistance on the Electrochemical Performance of Polyaniline for Supercapacitor Applications	POSTER	Shameela P
ES48	252	Engineering Tungsten Oxide/Hexagonal Boron Nitride/Multi-walled Carbon Nanotube Hybrid Architectures for Efficient Electrochemical Energy Storage	POSTER	Randheer Vannery
ES49	254	One-pot synthesis of WS ₂ /Cobalt Nickel Oxalate hybrid for pseudocapacitive energy storage applications	POSTER	Taniya Antony
ES50	256	From Natural Latex to Energy Storage: Bioactive Functionalization of Graphene Oxide for High-Performance Supercapacitors	POSTER	M Kalaiyarasi
ES51	262	Tuning the Electrochemical Performance of Hydrothermally Synthesized Nickel Manganite through Sulphur Doping for Supercapacitor Application	POSTER	Derin Paul R
ES52	280	Development of high-performed Bi ₂ WO ₆ and surfactant modified -Bi ₂ WO ₆ /C electrode materials for advanced energy storage system	POSTER	S. Sneka
ES53	281	Facile Sol-gel synthesis of NaFeO ₂ Nanostructures for enhanced Sodium-Ion Supercapacitor applications	POSTER	M. Dineshkumar
ES54	282	Heterostructured MoS ₂ /CuS composite as a High-efficiency electrode for Asymmetric Supercapacitors	POSTER	S. Subathra
ES55	283	Enhanced Electrochemical Properties of PVP-Assisted NiMn ₂ O ₄ /MWCNT Composites for Symmetric Supercapacitor Applications	POSTER	Ihsana Sherin P
ES56	285	Strain-Induced Enhancement of Ionic Conductivity in LiPON Thin Films	POSTER	Divya Bharathi

4. ADVANCED FUNCTIONAL MATERIALS & DEVICES

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
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AFM57	103	Hybrid AI, Blockchain, and Zero-Trust Framework for Secure Digital Wallets with Real-Time Fraud Detection and Privacy Preservation	ORAL	Shivam Kumar
AFM58	118	High-Entropy Fluorite Oxide Nanoparticles with Pr Doping: Modifier for Sensitive Hg(II) Detection	ORAL	Anandkumar Mariappan
AFM59	131	Membrane-Free Photocatalytic Fuel Cell Based on FeNi Bimetal-Mediated Z-Scheme WO ₃ -AgI/Cu ₂ O-AC: Experimental-Computational Elucidation of Charge Transport Mechanisms	ORAL	Saritha K
AFM60	133	Green Synthesis Of Bare Iron Nanoparticles And Surface Modified Iron Nanoparticles Using Gymnema Sylvestre Leaf Extract And Application On Methylene Blue Dye Removal	ORAL	Ushanthiny Uthayakumar
AFM61	140	Photocatalytic Biomass Sheets: A functional material framework for next-generation agricultural mulching	ORAL	R Janani
AFM62	146	Synthesis of Thermoresponsive pNIPAm-based Copolymer Hydrogel for Preconcentration of Copper (II) ions from Wastewater	ORAL	Narayanan B
AFM63	161	Efficient Diesel Exhaust Treatment Using Oxygen Vacancy-Enhanced CeO ₂ -MnO ₂ @Al ₂ O ₃ Nanocomposites	ORAL	Venkatesh Lingeswaran
AFM64	176	First-Principles Investigation of Electrocatalytic Nitrate Reduction to Ammonia on Chromium-Based MBenes (Cr ₂ B ₂ , Cr ₂ B ₃ , and CrMoB ₂ , CrMoB ₃): A DFT Study	ORAL	Meganath R
AFM65	183	Development of bimetallic Re-Fe/SBA-15 catalyst for methanation of carbon dioxide	ORAL	Purushothaman S P
AFM66	191	Selective Adsorption of Cr(III) ions from Wastewater Using Pyridyl Groups Functionalized SBA-15 Adsorbent	ORAL	Ashwini M
AFM67	207	Surface-charge engineered activated carbon-PVDF composite for hydrovoltaics integrated with energy storage applications.	ORAL	Athulya Ravindran
AFM68	212	Highly Sensitive o-Phenylenediamine-Based Sensors for Tetrachloroethylene (TCE) Detection	ORAL	SUGATHA P. S.
AFM69	219	First-Principles Study of Intrinsic Defects and Surface Interactions in ZnIn ₂ S ₄ for Photocatalytic Applications	ORAL	Thejus Vignesh
AFM70	237	Fluorine-Incorporated graphene oxide for hydrovoltaic power generation: Improving proton migration and storage capacity	ORAL	Neethu Manikandan
AFM71	79	Synergistic Adsorption-Photocatalytic Performance of Activated carbon/ZnO Composite for Efficient Dye Degradation in Wastewater.	ORAL	Anisha nallathambi
AFM72	259	Chemical Synthesis of MnFeCoNiCu High Entropy Alloy Nanoparticles for Environmental Remediation	ORAL	Selva Ganesh Velu Mariappan
AFM73	264	Highly Transparent and Conductive Indium-Doped ZnO Thin Films for Optoelectronic Device Applications	ORAL	Dinesh Arjunraj
AFM74	292	Green Synthesis of Zinc oxide Nanoparticles Utilizing Citrus Medica L. Peel Extract: Characterization of Photocataly	ORAL	Pushpalatha
AFM75	293	Cobalt Ferrite (CoFe ₂ O ₄) Nanospheres with Efficient Emission Characteristics for White LED Applications	ORAL	Antonette Divya Faustina
AFM76	294	Investigation of Structural and Optical Properties of Cobalt Zinc Ferrite-rGO Nanocomposites for White LED Applic	ORAL	T. Jose Antony
AFM77	87	Synthesis of Dice – Cube shaped 13X Zeolite and its Ion-Exchanged Forms: A Study on CO ₂ Adsorption Performance	POSTER	Glory Renita
AFM78	136	Development of Zinc Ferrite (ZnFe ₂ O ₄) Nanoparticles: Structural and Optical Properties	POSTER	Gayathri G
AFM79	149	Mesoporous Silica Adsorbent Incorporated with Amine Groups and its Selective Removal Efficiency of Cu(II) ions from Aqueous Effluent Solution	POSTER	Datchinamoorthy Thirupathi

AFM80	154	L-lysine-Modified Thermoresponsive Copolymer Hydrogel for Efficient Removal of Methylene Blue and Cu(II) ions in Wastewater Treatment	POSTER	Mohanraj Maruthachalam
AFM81	175	Effect of Titania addition on the ageing behaviour of 3 mol% yttria stabilized tetragonal zirconia ceramics	POSTER	Sutharsini Ubenthiran
AFM82	182	Photocatalytic Performance of DC Glow Discharge Plasma-Treated CaO–MgO–SiO ₂ Glass Ceramics	POSTER	Mykelraj P
AFM83	184	Evaluation of Biosafety and Physiological Impact of As-Prepared and Plasma-Treated Fe ₂ O ₃ –CaO–SiO ₂ Glass Ceramics	POSTER	Mykelraj P
AFM84	190	Influence of Palladium Doping on the Crystal Structure of Hydroxyapatite for Adsorptive and Reductive Removal of Uranium(VI) from Aqueous Solutions	POSTER	Ashwini M
AFM85	203	ZnCl ₂ -Activated Carbon Derived from Cockle shell: Adsorption Behaviour of Methylene Blue	POSTER	K Maniammal
AFM86	204	Raman Spectral Analysis of PLA- and ABS-Based Functional Composite Filaments for FDM 3D Printing	POSTER	Senthil Murugan S
AFM87	236	Polymerized Photosensitive EDOT-Coated Cotton Fabric as Efficient Solar Thermal Interfacial Evaporation and Hydro-Voltaic Power Generation	POSTER	Krishna.P
AFM88	245	Compositionally Driven Phase Engineering and Dielectric Tunability in Bi ³⁺ /Nb ⁵⁺ Co-Substituted ZnO based Micro-Composites	POSTER	Sreedevi s
AFM89	246	Scalable Plasma-Sprayed Fe-Cu Electrodes for Efficient Electrooxidative Degradation of Organic Dyes	POSTER	Vijay Lakshmanan
AFM90	253	Renewable energy from indigenous microalgae PVM1: enhancement of lipid accumulation and rubber char-mediated transesterification	POSTER	Meena Kalimuthu
AFM91	290	Hydrothermal Synthesis and Characterization of Lanthanum Cobalate (LaCoO ₃) for Photodegradation of Organic Dye	POSTER	P. Sivakumar
AFM92	70	Development of Medicinal Plant-Derived AgNPs Thin Films for Enhanced Ammonia Gas Sensing Applications	POSTER	Jeyakannan

5. MODELING, SIMULATION & ARTIFICIAL INTELLIGENCE IN MATERIALS RESEARCH

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
MS93	92	Defect diffusion and dopant properties of lithium-based NASICON-type electrolyte material LiZr ₂ (PO ₄) ₃	ORAL	Birunthayini Sivasithamparapillai
MS94	93	Defect formation, dopant incorporation, and lithium diffusion in Li ₈ SiO ₆ : an atomistic simulation study	ORAL	N.M. Vitharana,
MS95	128	First-principles study of Mo-chalcogen co-doped TiO ₂	ORAL	Chapa Wanniarachchi
MS96	138	Integrated Aerodynamic and Jensen Wake Modeling for Wind Turbine and Wind Farm Performance Analysis	ORAL	R.Thanushan
MS97	220	Computational Investigation of Intrinsic Defects in the Surface of Lithium Cobalt Oxide (LiCoO ₂) Cathode Material	ORAL	Srilakshmi S
MS98	221	Investigation on the Electronic and Charge-Carrier Transport Properties of A ₂ BIO ₆ Double Perovskites for Radiation Detection	ORAL	Alloffy Mary A
MS99	224	Comparative Analysis of the Interaction of Chlorambucil with Graphene and Boron Nitride Nanosheets: A Density Functional Theory Study	ORAL	Gayathri K
MS100	173	Defect Engineering in Na ₂ ZnSiO ₄	ORAL	Seshan Vijayabaskar

MS101	231	Data Driven Modelling of Chromium Speciation, Colour Variability, and Nonlinear Optical Behaviour in LAsparagine Monohydrate Potassium Dichromate (LAMPDC) Crystals	ORAL	Natarajan R
MS102	272	AI-Assisted Learning and Student Engagement: A Study among Engineering Students	POSTER	Vijay. M
MS103	274	Electronic Structure Elucidation (DFT) of Cu- Stacked Crown Ether complex: analyze for CO ₂ adsorption on Open Metal Site Affinity	POSTER	Devi Saraswathi Ravichandran
MS104	287	Modelling And Simulation Of A Dual Axis Sun Tracking Pv System Using Matlab/Simulink	POSTER	Premdas T P

6. MATERIALS FOR HEALTH APPLICATIONS

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
HL105	24	Development of Electrochemical sensors for detection of AFP in blood	ORAL	Harini Loganathan
HL106	90	GeneoX: An AI-Based Personalized Drug Recommendation System for Hematological Disorder	ORAL	Om Prasath
HL107	112	Electronic detection of E-Coli bacteria: A Proof-of-concept Study	ORAL	P. Kirushnavathany
HL108	126	Evaluation of photon relative attenuation ratio by immobilization and support devices in external beam radiotherapy	ORAL	J. Mathura
HL109	244	PhytoSyn: A Machine Learning Framework for Synergistic Phytochemical Combinations Prediction	ORAL	Madhesh Palanisamy
HL110	23	Hierarchical Ni-Doped V2O5 Nanoarchitectures for Continuous Glucose Monitoring from Sweat	ORAL	Vigneswar Perumal
HL111	55	A Unified Multiphysics Model for Degradation of Bone Tissue Engineering Scaffolds	ORAL	Aeneas Jerron Velu
HL112	164	AN ELECTROCHEMICAL BIOSENSOR BASED ON GREEN SYNTHESIZED REDUCED GRAPHENE OXIDE NANOPARTICLES FOR AFLATOXIN B1 DETECTION	ORAL	Loyce Namanya
HL113	179	ADP-Loaded Freeze-Dried Chitosan-Based Scaffold for Enhanced Hemostatic Applications	ORAL	Sharmila Srinivasan
HL114	82	Influence of Synthesis Routes on the Physicochemical Properties and Cytotoxic Activity of NiFe ₂ O ₄ Nanoparticles Against MDA-MB-231 Cells	ORAL	Muhil Eswari K
HL115	35	Flexible Organohydrogel Derived from the Traditional Medicine Jashad Bhasma with Rubia cordifolia complex has Antibacterial Properties used for the Treatment of Acne	ORAL	Dharsini Narayana Moorthy
HL116	84	Development and Application of Biopolymer Hydrogel Adsorbents for Cationic Dye Removal from Aqueous Solution	ORAL	John Praveen Kumar John Kennedy
HL117	104	Mo3C2Tx-integrated sodium alginate-chitosan-hydroxyapatite based 3D- printed scaffold for bone implants with synergistic anti-microbial and anti-osteosarcoma activity	ORAL	Mowsam Saikia
HL118	111	Synergistic Effects of Thermal Treatment and Ammonium Carbonate on Calcium Ion Removal for Water Softening	ORAL	Sivanayani Selvakumar
HL119	132	Eco-friendly Herbal Mosquito Repellent Formulations Using Ocimum Americanum, Acorus Calamus, and Azadirachta Indica- Seeds.	ORAL	Sutharsika Sivalingam
HL120	147	A unique amalgamation of polysaccharide polymer and an isostructural HAP-a hydrogel for bone repair and regeneration	ORAL	sanjana C

HL121	148	Phenyl-Diurea-Bridged and Amine Functionalized Fluorescent Mesoporous Silica Hybrid for Drug Delivery and Imaging	ORAL	Narayanan B
HL122	150	Nanoscale Bioactive Glass & Hydroxyapatite based Scaffolds: From Concept to Prototype	ORAL	Elakkiya K
HL123	151	Synthesis and Characterization of Zinc Ions Cross-Linked pNIPAm-Based Copolymer Hydrogel for pH-Sensitive Efficient Delivery of Antibacterial Drugs	ORAL	Datchinamoorthy Thirupathi
HL124	156	Butanediol Diglycidyl Ether Crosslinked Thermoresponsive Copolymer Hydrogel Stimuli-Responsive Drug Delivery for Antibacterial Application	ORAL	Mohanraj Maruthachalam
HL125	157	Synthesis And Preliminary Larvicidal Effect Of Silver-Titanium dioxide Nanoparticles On Aedes aegypti larvae	ORAL	Sharanki Paheerathan
HL126	159	Producing an eco-friendly alkali agent for batik dyeing using banana pseudo stem	ORAL	Abinaya Sivalingam
HL127	26	Biosensing of NADH Fluorophores by Lanthanum doped Carbon Quantum dots through Fluorescence Energy Transfer	ORAL	Athulya Aravind
HL128	208	Hierarchical Sponge-Like Nanofibrous Biogenic Hydroxyapatite/ZnO Scaffolds for Rapid Blood Clotting and Antibacterial Activity in Complex Wounds	ORAL	Shalini Thomas
HL129	241	Synergistic Electrocatalytic Behaviour of Co-precipitated NiWO ₄ /BN Hybrid toward the Enhanced Electrochemical Detection of Chloramphenicol in Pharmaceutical Residues and Foods	ORAL	Yadhukrishnan K V
HL130	195	Comprehensive Analysis and Evaluation of Anticancer Activity of Microplasma Activated Phosphate Buffered Saline	ORAL	Varshaa S R
HL131	68	A Study on CNTFET Array Biosensors Compared with Traditional Techniques for Detecting Human Papillomavirus	POSTER	Gopinath P G
HL132	85	Advanced Methods & Systems Long Horizon Type2 Diabetes Prevention	POSTER	Sathyamoorthy Ramachandran
HL133	158	Nanoarchitectonics of Annona squamosa Seeds to Carbon Dots: Photophysical Properties and Multimodal Imaging Applications in Biological Systems	POSTER	Sanjay T
HL134	210	Comparative DFT and Molecular Docking Studies of Aspidosperma Alkaloids Interacting with Tubulin	POSTER	Sameena M
HL135	6	In-vitro and In-vivo Investigation of Plant Extracts Loaded Carboxymethylcellulose Film for Wound Healing	POSTER	Balaji Ayyanar Chinnappan
HL136	13	Bio-functionalized redox active Sm ₂ O ₃ nanoparticles for ROS-orchestrated antibacterial activity and photothermal tumor cell eradication in osteosarcoma models	POSTER	Dr. A. Jegatha Christy
HL137	14	Dual-Functional Environmental Sensing and Biological Application Mediated by Trigonella foenum-graecum Derived Ag ₂ MoO ₄ Nanostructures	POSTER	D. Arockia jency
HL138	169	Identification and establishment of novel shielding polymer nanocomposite materials - A special reference to PVC and Gd: BiVO ₄ systems	POSTER	Vikram Thennarasu
HL139	185	Enhancing the Antibacterial Efficiency of Silver Nanoparticle Using Graphitic Carbon Nitride Template	POSTER	Deepak Raju
HL140	188	Facile Synthesis and Optical Tuning of Carbon Quantum Dots via Cold Plasma Technology	POSTER	Muthuselvan M
HL141	194	Mesoporous Silica@Copolymer for pH and Temperature- Responsive Drug Delivery	POSTER	Priya Rajamoni
HL142	197	Comparative Assessment of Ozonation and Chlorination for Microbial Inactivation to Mitigate Waterborne Health Risks in Critical Water Sources of Northern Sri Lanka.	POSTER	Sajimeera Rajagopal
HL143	229	Bioactive Compound Profiling and Glucose-Lowering activity of Trigonella foenum-graecum and Coriandrum Sativum Linn seed extracts	POSTER	Sugapriya S

HL144	230	Green Synthesis, Characterization of Zinc Oxide Nanoparticles (ZnO NPs) from Pachygone ovata leaves and biomedical applications	POSTER	Dinesh Kumar Matheshwaran
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7. EMERGING MATERIALS & TECHNOLOGY

Paper Code	Paper ID	Paper Title	ORAL / POSTER	Primary Author Name
EMT145	187	Biological Potential of 4-Aminopyridinium-5-Sulfosalicylate Sesquihydrate: Experimental and Computational Insights	ORAL	Ananthi R
EMT146	209	small Wind Energy Systems for Coastal India: Resource Assessment and Deployment Opportunities	ORAL	Karthikeyan N
EMT147	265	Valorization of Tamarindus indica Waste into Functionalized Biomass activated Carbon for congo red Dye Remediation	ORAL	Balasubramanian Arumugam
EMT148	268	Temperature-Controlled Biochar Materials: Paving the path to future Green Energy	ORAL	Anamika Chatterjee
EMT149	273	Enhanced Germination of Tomato seeds by plasma treatment	ORAL	M. Vijay
EMT150	115	SmartTask: A Data-Driven Task Management and Productivity Analytics Framework with Intelligent Planning	POSTER	Yuvraj Tripathi
EMT151	266	A Lightweight ResNet-GRU Based Dual-Stream Deep Learning Framework for Multimodal Fault Detection in Solar PV Arrays	POSTER	Priyadarshni R
EMT152	267	IoT Integrated Automated Cleaning System for Performance Enhancement of Solar Photovoltaic Panels	POSTER	Senthilkumar R
EMT153	291	IoT-Based Real-Time Energy Auditing Framework for Smart Buildings	POSTER	Hashim A. S.
EMT154	297	Photocatalytic Performance of 0.2 g Graphite-Doped Hexagonal YMnO ₃ Nanomaterials under Visible Light	POSTER	Sawyasasin D
EMT155	298	Nd-Doped SmNiO ₃ Perovskite Nanoparticles for Enhanced Visible-Light Photocatalytic Degradation of Methylene Blue	POSTER	Anitha
EMT156	299	Defect-Mediated Charge Dynamics in Pr ³⁺ -Doped SrFeO ₃ Perovskites for Efficient Visible-Light Photocatalytic Environmental Remediation	POSTER	G. Gopinath
EMT157	300	Synthesis, characterization and photocatalytic evaluation of Y and Ag-doped and Co-doped multiferroic BiFeO ₃ nanoparticles	POSTER	P.Niranjana
EMT158	301	Design, Synthesis and Characterization of BaFeO ₃ /ZnO Heterostructured Nanocomposites for Efficient Visible-Light Photocatalytic Degradation of Organic Pollutants	POSTER	Vijayalakshmi
EMT159	302	Structural, Optical, and Photocatalytic Investigation of SrTiO ₃ /ZnO Heterostructures for Rhodamine B Degradation	POSTER	G. Myvizhi
EMT160	303	Synthesis, Structural Characteristics, and Catalytic Performance of Ce and Sm Doped MnFe ₂ O ₄ Nanoparticles for Biodiesel Applications	POSTER	N. S. Mohan
EMT161	304	Facile Fabrication of MgFeO ₃ /ZnO Nanocomposites with Improved Catalytic Activity toward Biodiesel Production	POSTER	C. Chelladurai
EMT162	305	Comparative Study of Multifunctional Tripartite Bioactive Glass/Alginate/Gelatin Hydrogel Scaffolds for Bone Tissue Regeneration Applications	POSTER	Geetha S