

DAY 1 : 20/12/2024 (FRIDAY)

16:10 - 18:00

POSTER PRESENTATION

MAIN VENUE CORRIDOR

S.No	Abstract ID	Author	Title
1	AB 117	Parul Sharma	Soil mimetic eco-friendly fertilizer gate: Nanoclay reinforced binary carbohydrate for crop efficiency
2	AB 123	Ritu Iadhi	Ultrathin MOF nanosheets and their mixed-matrix membranes for ammonia and aliphatic amine sensing in water
3	AB 124	Aashi	Laser-induced crafting of modulated structural defects in MOF-based supercapacitor for energy storage application
4	AB 127	Vinayak P	Machine Learning enabled Tribological Studies of Aerospace Materials
5	AB 128	Vikas Pundir	Synergistic modulation in a triphasic Ni ₅ P ₄ -Ni ₂ P@Ni ₃ S ₂ system manifests remarkable overall water-splitting
6	AB 130	J.Sharukesh	Gravitation energy storage
7	AB 133	Muhammed Nazim N	Machine Learning enabled exploration of tensile traits of aerospace materials fabricated by SLM Technology
8	AB 138	Aswathi Vinod	Evaluation of Chitosan Scaffolds for Bone Regeneration in Post-Extraction Sockets: A Clinical Study
9	AB 139	S. Hariprasad	Preparation of eco-friendly fireworks composition with corncob powder to reduce SO ₂ emission
10	AB 145	Jayash Sahu	Investigating Nanoparticle Dispersion and Stability in Ionic Fluid (C1C4ImOAc)
11	AB 148	Vanshika Sreekumar	Biowaste Derived Electrocatalysts for Enhanced Direct Methanol Fuel Cell Performance: A Step Towards Sustainable Energy
12	AB 154	Vyom Bhalala	Magnetically Actuated Micro-robots for Efficient Biofilm Eradication
13	AB 159	Ishan Zalpuri	Performance Analysis of a Novel Clamp-Based Fixed-Ended Flexible Beam for Energy Harvesting Under Sea Wave-Induced Stress
14	AB 160	Ameer Suhail	Scalable Optofluidic Microreactors for Visible-light-driven Photocatalytic Overall Water Splitting: A Novel Approach Towards Commercialization
15	AB 161	A.Dharshini Jenifer	Impact of Corn Waste-Derived Biochar on Soil Properties and Plant Growth Parameters
16	AB 169	Sakthivel V	Design and fabrication of low-impact resistant waterproof car cover in mitigating flood damage
17	AB 178	Feba Mohan M	Synthesis and Characterisation of bio-nanocomposite coated urea nanofertilizers
18	AB 179	Abey Joseph	Pressure Resistant Multifaceted 3D Bioprinted Biopolymer Scaffold for Lung Epithelial Cells: A Mechanotransduction Study
19	AB 180	Nigina Gopinath	Uptake and Accumulation of Micro/Nanoplastics in Terrestrial Plants: Insights from Carbon Dot-Embedded Polystyrene Interactions with Legumes
20	AB 185	Hafin Shan P K	Corrosion inhibition of EDTA for 304 L steel in 1M HCl.
21	AB 188	Nabeel N. Abu	Low-Temperature Solvothermal Growth of CoxSy Nanospheres on Conducting Substrates as Efficient Electrodes for Hydrogen Evolution Reaction
22	AB 190	Abhijith M	Injectable PEGDA/HA nanocomposite for bone regeneration with osteoconductive support
23	AB 191	Raji Kochandra	Optimizing CNT Synthesis: Gaseous and Liquid Chemical Vapor Deposition Methods
24	AB 199	Hibu Munku	Niobium MXene modified carbon felt electrode for capacitive deionization in the removal of Cr 6+ from metal bearing water
25	AB 201	Anson T Mathew	An Electrochemical Sensor for the Detection of Chloride Ions Using Disposable Screen Printed Silver Electrodes for Multitude Samples With Portable Potentiostat
26	AB 209	Dylan Daniel Muruppel	Synthesis of Tin Oxide and Copper Co-Sputtered Thin Films for Hydrogen gas sensing
27	AB 211	Ankur	Polymer nanocomposite for piezoelectric nanogenerators and pressure sensors: impact of morphology and surface charge of nanofiller on the polymer matrix
28	AB 214	Athul Krishna PB	Study of Microstructure and Mechanical Properties of Wire arc Additive Manufactured (WAAM) Inconel 625 Hollow cylinder Using Cold Metal Transfer (CMT)
29	AB 225	C. S. Suchand Sangeeth	Tuning the Photoresponse properties of Poly(3-hexylthiophene) by Doping with Organic Dyes
30	AB 251	Aparna I	A review on anti-bacterial studies & in silico investigation of lead compounds from selected plant extract
31	AB 253	Nithin S N	Electrospun PLA/Bioglass Nanofiber Coating on Mg-Ca Alloy for Tailored Biodegradation and Enhanced Bioactivity
32	AB 269	Lamiya Nasreena .P	Effect of Curcumin on Electrospinnability of different concentrations of Polyvinyl Alcohol nanofibrous scaffolds for wound healing applications
33	AB 275	Inchara R	Development of Disposable Electrochemical Sensor as a Point-of-Care Testing Platform for Deficiency of Vitamin D
34	AB 285	Sathish Kumar M	Transdermal Patch Using Biocompatible Carboxymethyl Hexanoyl Chitosan for Therapeutic delivery of Vitamin D
35	AB 291	Baby Sreeja S D	Effect of particle size of TiO ₂ in polymer composites used in triboelectric nano energy harvester
36	AB 293	Baby Sreeja S D	Impact of MnO ₂ -Doped BaTiO ₃ Compositional Variations in PDMS Polymer Composite Thin Films for Enhanced Triboelectric Energy Harvesting
37	AB 301	Ziba Rasheed	Affordable colorimetric paper sensor for the early detection of cancer biomarker.
38	AB 317	Shivalaya Ravi M P	Development of electrochemical sensor for dopamine detection
39	AB 319	Dr. Merin Joseph	Copper Nanocluster Mediated Bimodal Cancer Theranostics
40	AB 324	T. Suresh Kumar	Microstructural and failure investigations in thermally aged 316 LN stainless steel weld joint under creep-fatigue interaction loading
41	AB 325	Dr. Gokulnath Kadavath	Investigation of nanoscale precipitation in 17-4PH stainless steel using small-angle neutron scattering
42	AB 326	Simranjit Singh	Synergistic Effluent Treatment through Adsorption and Photocatalysis Using Banana Peel-Based ZnO Nanoparticle Composites
43	AB 328	Resmi V Prasad	Aerodynamic investigation of blended wing body

DAY 2 : 21/12/2024 (SATURDAY)

14:00 - 15:00

POSTER PRESENTATION

MAIN VENUE CORRIDOR

S.No	Abstract ID	Author	Title
1	AB 112	C Ganesh	Investigation of ternary blends with nanomaterial on CI engine for environmental protection
2	AB 132	Divya D	Adsorption study of activated biochar derived from the Ficus auriculata tree leaves on anionic and cationic dyes
3	AB 151	Ridhin Raj V R	Machine learning guided high entropy alloy discovery: Accelerating materials innovation
4	AB 166	Biswajith S	Wet chemical synthesis and characterization of Ethylene glycol encapsulated Manganese oxide nanorods
5	AB 197	Dr. Jeethu Raveendran	Multiwall carbon nanotube/Fe ₂ O ₃ modified screen printed electrode for electrochemical detection of creatinine
6	AB 216	Arunya Raj R	WS ₂ /NIS ₂ Based Heterostructures Grown on Nickel Foam as an Electrocatalyst for Efficient Hydrogen Evolution
7	AB 222	Arya A	Biodegradable food packaging
8	AB 226	Shasiya P S	High-Performance Polyvinyl Alcohol-Based Ternary Nanocomposites with Enhanced Thermal and Mechanical Properties for Flexible Device Applications
9	AB 234	Athira M	Polyvinylidene Fluoride-Ti ₃ C ₂ MXene Film-Based Flexible Piezoelectric Nanogenerator for Superior Underwater Energy Harvesting
10	AB 236	Athira S Vijayan	Synergistic Integration of MoS ₂ -Ag-TiO ₂ in Polyurethane: A Non-Toxic Coating with Enhanced Photocatalytic potential for Anti-biofouling applications
11	AB 237	Akshara A	Enhancing Thermal Comfort and Energy Efficiency: Shape-Stabilized PCM Integration for Passive Cooling in RCC Roofs
12	AB 239	Arushi Arora	Unearthing low overpotential of Platinum electro-grafted Ni-Co-S as efficient Hydrogen evolution electrocatalyst
13	AB 241	Akbar S	Development of a Flexible Silicone Rubber-Silicon Carbide Heat Spreader for Low-Power Electronics
14	AB 242	Sunil Kumar Hemanth M	Comparative analysis of oil residues: Material characterization and biodegradation testing for environmental remediation
15	AB 244	Bushair Ali K	Piezoresistive sensors from pyrolyzed coconut fiber
16	AB 245	Aryan Soniya Duge	Effect of Stacking Faults on Mechanical Behaviour of Copper - A Molecular Dynamics Study
17	AB 246	Sudhanshu Nartam	Tunable Dielectric Properties and EMI Shielding of MoS ₂ -Reinforced PVA/PEG Nanocomposites for Electric Vehicle Electronics Casings
18	AB 252	Krishnapriya U K	Piezoresistive Properties of Laser-Graphitized Polyimide Film for Low-Cost Flexible Sensor Applications
19	AB 254	Gaurav Sancheti	Feasibility of using natural fibers for enhancing the flexural strength of concrete
20	AB 255	Neethu M	Streaming induced hydrovoltaic power generation by functionalized graphene derivatives
21	AB 259	Vidya T P	Investigating the Feasibility of Green Nanoparticle Synthesis for Detecting Adulteration in Honey
22	AB 260	Kritika Sood	Eco-Friendly Synthesis of NiO Nanoparticles Using Waste Tea Extract and Their Potential as Electro-Anodes for Ethanol Oxidation
23	AB 264	Haleema Safa	Coconut shell derived pyrolyzed carbon for electromagnetic interference shielding
24	AB 268	Liza James	A portable handheld multimodal spectroscopic probe system for monitoring the quality of coconut oil
25	AB 273	Dr. Shijina S S	Fabrication of a Composite Heat Spreader with Enhanced Thermal Properties
26	AB 274	Abdul Junaid P	Highly Active Nickel and Nitrogen-doped Carbon for Enhanced water-splitting reactions
27	AB 276	Navin V Varughese	Enhancing Sustainable Recycling of Aluminum Scrap through Advanced Alloy Development
28	AB 278	Anu Joy	Chemical Kinetic and Thermodynamic Effects of Activating Flux Powders on TIG Weld Penetration in 304 L Stainless Steel
29	AB 282	Dheeraj Dev V D	Comparative study on hydroxyapatite-coated titanium substrates.
30	AB 284	Swinkle Rose	Phase change material based cooling for thermal management of drum brakes
31	AB 286	Hridya C Prakash	photo-assisted capacitive performance of vanadium based supercapacitor
32	AB 287	Nice Menachery	Microstructural characteristics, mechanical and wear behaviour of nano hexagonal boron nitride reinforcement in Aluminium metal matrix composites.
33	AB 295	Parvathy S Pillai	Design and analysis of a rigid flange coupling for the propulsion of houseboat
34	AB 296	Mubaris N K	Phase Transition Study of Sn Doped GeTe for Phase Change Memory Applications
35	AB 303	Sanjeev Sajan	Understanding the Phase Stability of FAPbI ₃ Thin Films for Enhanced Solar Cell Performance
36	AB 307	Joel Antonie Harock	Coconut Shell biocomposite for cutlery application
37	AB 315	Adarsh V J	Fabrication of all carbon microheaters by laser graphitization of photoresists
38	AB 316	Adwaidu Viswanathan	Metal oxide-based thin film transistor for hydrogen gas sensing
39	AB 320	Abhishek bhaisare	Structural and morphological investigation of hydrothermally synthesized high entropy spinel oxides
40	AB 321	Arun Raphel	Phase evolution and Characteristics of mechanically alloyed and spark plasma sintered high entropy AlCoCrFeTi alloy
41	AB 322	Arun Raphel	Material and design optimization of nature-inspired cellular structures for bioimplants
42	AB 323	Abhijith P U	Development of Shape Stabilised Paraffin Wax - Graphite Composite as Thermal Energy Storage Layer in Multifunctional Floating Absorber Solar Still
43	AB 327	P Surya Samyog	DFT-driven Generation of ANN Potentials for 316LN Stainless Steel

