APA 2025 Udaipur Poster Presentations (Session-22) | Day-2 | Time:15:40:30-17:20 | Poster Area: Green Lawn Area

Poster No.	ABS ID	ABS.Title	Author Full Name	Institution/Affiliation	City/Country
P-83	**243**	4D Bioprinted pH-responsive Hydrogel Scaffold with Tannic Acid and Sr– Se Co-doped Bioglass for Targeted Osteosarcoma Treatment	Sumit Suprabhat Behera	Indian Institute of Technology	Mandi
P-84	**246**	Cissus quadrangularis incorporated osteoinductive bioink for bone regeneration	Tapaswini Jena	Indian Institute of Technology	Mandi
P-85	**248**	Environmentally Friendly Waterborne Polyurethane-Urea Films with Improved Performance through 1,8-Diaminooctane-Induced Crosslinking	Vikash Ganvit	The Maharaja Sayajirao University of Baroda	Vadodara
P-86	**249**	Synthesis of titanium dioxide (TiO2) nanoparticles and its antimicrobial properties	Pankaj Naharwal	UCOS	Udaipur
P-87	**255**	Structural Modulation of Oxynitrides for Improved Photocatalytic Water Splitting: Recent Developments and Outlook	Hritika Dangwal	UPES	Dehradun
P-88	**258**	Impact of enzymatic extraction on biopolymer recovery from leguminous waste for packaging materials	Farjana Yeasmin	Indian Institute of Technology Delhi	New Delhi
P-89	**261**	Waste to wealth: Productive use of agricultural waste for microwave absorption and achieving circular economy	Vaibhav Sanjay Darekar	Malaviya National Institute of Technology Jaipur	Jaipur
P-90	**262**	Multifunctional waste resource-based superabsorbent polymers for biomedical applications	Nidhi Milind Sapre	Symbiosis Centre for Stem Cell Research, Symbiosis International (Deemed University)	Pune
P-91	**264**	Synthesis and Characterization of bioactive monoflavonoxy alkane derivative	Anita Lamba	University College of Science MLS University	Udaipur
P-92	**270**	From Weed to Wonder: Jungle Rice Mediated Gold Nanoparticles for Analyzing Antibacterial, Antioxidant and Antidiabetic Potential	Ayushi Malik	Mohanlal Sukhadiya University	Udaipur
P-93	**277**	Ultrasonic-Assisted Fabrication, Photocatalyst Performance and Biological Evaluation of Fe3O4-Supported SGO/PTh Nanocomposites	Prakash	Mohanlal Sukhadiya University	Udaipur
P-94	**289**	Synthesis and characterization of polymeric flocculants for protein flocculation	Amaya OK	CSIR-National Chemical Laboratory	Pune
P-95	**290**	Unravelling Pre-Gelation Dynamics in Biopolymer Derived Polyelectrolyte Complexes: A Rheo- DLS Study	Lekshmi Krishnan	CSIR-National Chemical Laboratory	Pune
P-96	**293**	Thermothickening Behavior of Chemically Modified Alginate: Insights from DLS and Rheological Studies	Ankitha K. A	CSIR National Chemical Laboratory	Pune
P-97	**294**	Resorcinol based moisture-activated oxygen scavenger for active packaging of fresh bread and their effect on shelf-life extension	Divyanshu Gupta	Indian Institute of Technology	Roorkee
P-98	**300**	Bio-based polyurethane composite foam reinforced with graphene oxide for enhanced antibacterial and dye removal applications	Mehul Patel	Gujarat Industrial Research and Development Agency GIRDA	Vadodara

P-99	**302**	Development of Crosslinked Anionic Polyelectrolytes for Metal Removal from Contaminated Water	Devika K . S	CSIR-National Chemical Laboratory,Pune	Trichur
P-100	**307**	Electrode-supported palladium electrocatalyst for Suzuki-Miyaura cross-coupling reaction.	Rashmi Verma	University college of science, MLSU, UDAIPUR	Udaipur
P-101	**316**	An eco-friendly nanocomposite of modified cellulose, TiO_2, and cinnamon bark for the spectrophotometric reduction of toxic organic pollutants	Yashpal	Mohanlal Sukhadiya University	Udaipur
P-102	**317**	Preliminary phytochemical screening and antioxidant activity of Cucumis maderaspatanus	Reena Salodiya	S.M.M. Govt. Girls College	Bhilwara
P-103	**318**	Sustainable Knitted Aerogel Liners for High-Performance Insulation in Cold Weather Clothing	Sudipto Behera	Indian Institute of Technology Delhi	New Delhi
P-104	**320**	Plant-extract Mediated Biogenic TiO2 Nanoparticles for Photocatalytic Degradation of Dye Pollutants	Vikash Kumar Surela	Mohanlal Sukhadiya University	Udaipur
P-105	**321**	Cracking the Resistance Code: Evaluating Cephalosporin Effectiveness in UTI Isolates	Henaben Bharatbhai Sojitra	DRs. Kiran and Pallavi Patel University	Vadodara
P-106	**324**	Ultra-Low Particulate Air Filters from Porous PLA and Porous TiO2-PLA Nanofibres with Excellent Antibacterial Properties	Tulip Biswas	Indian Institute of Technology Delhi	New Delhi
P-107	**327**	Comparative Impact of NiO Nanowires and Nanoparticles on Electrospun PAN-Based TENGs for Innovative Applications	Tarun Pratap Singh	Indian Institute of Technology Delhi	New Delhi
P-108	**332**	Dose-Dependent Effects of Zinc Oxide Nanoparticles on Growth and Antioxidant Response in Ashwagandha (Withania somnifera)	Versha	Mohanlal Sukhadia University	Udaipur
P-109	**336**	Band Gap Engineering and Structural Tuning of Ferrite-ZnO@Polymer Nanocomposites for Photocatalytic Applications	Mamata	Mohanlal Sukhadia University	Udaipur
P-110	**338**	Biogenic Construction of Nickel nanoparticle and their use in thin film Formation	Anshul Tamboli	M.L.V Govt. College	Bhilwara
P-111	**339**	Eco-Friendly Synthesis and Bioactivity Evaluation of 2-Amino-3-cyano-4H-chromene Derivatives Using Feâ‚ƒOâ‚„@SGO Nanocatalyst	Shaily Sharma	Mohanlal Sukhadia University	Udaipur
P-112	**342**	Conputational Screening of microalgae metabolites for NADPH Oxidase inhibition	Krishnaveer Singh Jhala	UCOS, MLSU	Udaipur
P-113	**346**	Biodegradable chitosan films incorporated with taro peel carbon dots for active food packaging	Deepika Gupta	Indian Institute of Technology	Mandi
P-114	**350**	Investigation of Flow Dynamics and Mixing Efficiency in Multi-Cell Micro Tesla Valves	Deepak Singh D	Central Manufacturing Technology Institute	Banagalore
P-115	**355**	Neural Network Based Generative Method for Potential Polymer Lead Generation Targeting Oligonucleotide Polymer Conjugates	Debasish Mohanty	CIPET-SARP: LARPM	Bhubaneswar

P-116	**361**	Soy protein supported PPO/PEO nanocomposite hydrogels as a vehicle for safe release of ciprofloxacin	Kalyani Prusty	Gandhi institute of Technology and Management, Bhubaneswar	Odisha
P-117	**362**	Developing an inter-relationship between surgical suture size (USP/EP) and textile numbering system (tex)	Rudra Narayan Saha	Dr B R Ambedkar National Institute of Technology, Jalandhar	Jalandhar
P-118	**367**	Bio-Inspired NiO Nanoparticles: Structural Analysis and Dual Application in Antibacterial and Photocatalytic Performance	Chetna	Mohanlal Sukhadiya University	Udaipur
P-119	**370**	Recycling reinvented: Converting PET bottle waste into 3D printable PCR polypropylene vitrimers for a sustainable future	Indranil Dey	Indian Institute of Science (IISc) Bangalore	Bangalore
P-120	**372**	Green Synthesis, Characterization and Antimicrobial Activity of Silver Nanoparticles Using Leafless Milk Hedge Extract	Mayank Suthar	Mohanlal Sukhadia University	Udaipur
P-121	**377**	Tribology of Additive Manufactured High Performance Polymer Composites	Sushant Sale	MNIT	Jaipur
P-122	**379**	Upcycling acrylonitrile-butadiene-styrene into vitrimers by reactive extrusion with a commercial polyepoxide crosslinker	Siddhesh Rege	Indian Institute of Science, Bangalore	Bangalore
P-123	**382**	Tuning of electromagnetic interference shielding properties by oxidant variation in polyaniline	Ruchika Sharma	Thapar Institute of Engineering and Technology	Patiala
P-124	**383**	Tailoring of PVDF based CoFe2O4 incorporated thick films for superior dielectric and magnetic performance	Lovepreet Kaur Dhugga	Thapar institute of Engineering and Technology	Patiala
P-125	**384**	Green Nanocomposites for Multi-Metal Removal and Recovery	Akanksha Singh	Indian Institute of Technology (BHU)	Varanasi
P-126	**389**	Development of temperature-responsive biodegradable materials for transdermal drug delivery	Sahana Devadiga	St Aloysius (Deemed to be University)	Mangaluru
P-127	**390**	Phytochemical-Assisted Synthesis of Nanoparticles from Pongamia pinnata Pods and Their Role in Polymer Composites	Praveen Meena	Shri Govind Guru Govt College Banswara	Banswara
P-128	**392**	Characterization of crack porpogation in combat fabrics under dynamic loading	Kammeta Meghana	Dr B R Ambedkar National Institute of Technology Jalandhar	hyderabad
P-129	**393**	Industrial Waste-Based Epoxy Composites: A Lightweight Microwave Absorbing Material	Lekhraj Verma	Malaviya National Institute of Technology Jaipur	Jaipur
P-130	**395**	Utilization of Corn Protein Meal for Sustainable Plant Based Protein Source	Tania Raheja	BRIC-NABI	Mohali
P-131	**400**	Lanthanide-mediated Synthesis of Functionalized Difluoroalkenes and Mechanistic Insights	Tarun Kumar	Mohanlal Sukhadia University	Udaipur
P-132	**402**	Advancing Polyurethane Acrylate Coatings with Silane Termination: Influence on Structural and Functional Performance	Namita Karna	Institute of Chemical Technology	Jalna

P-133	**405**	Synthesis and Evaluation of Hypoxia-targeted Metal-Organic Frameworks (MOFs) for Oral Tumour Therapy	KAHKASHA .	Indian Institute of Technology Delhi	New Delhi
P-134	**406**	Design and development of ex-vivo vascular bioreactor for cardiovascular tissue engineering	Ashish Arora	CBME, IIT Delhi	New Delhi
P-135	**410**	Scalable Roll-to-Roll manufacturing of Proton Exchange Membrane for High-temperature Proton Exchange Membrane Fuel Cell (HT-PEM) with high Power Density	Sameer Vinay	CSIR - National Chemical Laboratory	Pune
P-136	**411**	Direct Upcycling of Waste Polycarbonates into High-Value Polysulfones for Water Treatment Membrane Applications	Diksha Saluja	CSIR-NCL	Pune
P-137	**412**	Large-area Freestanding Membranes for Forward Osmosis with No Internal Concentration Polarization	Vinay Kumar Jaiprakash Barai	CSIR-National Chemical Laboratory (NCL)	Pune
P-138	**417**	Development of Chitosan-azo-vanillin Schiff bases for photochromic and antimicrobial applications	Akash Siotey	Netaji Subhash University of Technology	New Delhi
P-139	**418**	Valorization of Expanded Polystyrene Waste via Sulfonation for Thermally Stable Composite Fabrication	Diwakar Chauhan	Netaji Subhas University of Technology, Dwarka	New Delhi
P-140	**419**	pH-Sensitive Electrospun Fibrous Films for Food Spoilage Monitoring	KM Mansi Aditya	Indian Institute of Technology	Jammu
P-141	**420**	Enzymatic surface functionalization of lignocellulosic fibers for the preparation of biocomposites	Susheel Kalia	Indian Military Academy	Delhradun
P-142	**421**	Fabrication of Polymeric Thin Film-Leaflets for Transcatheter Aortic Valve	Garima Gulati	CBME, IIT Delhi	New Delhi
P-143	**423**	Synthesis and Characterization of a promising Metal free Polymer Carbon Dot for Dissolved Oxygen Sensing	Rutuja Kundalik Kadam	CSIR-National Chemical Laboratory, Pune	Pune
P-144	**424**	Optimisation of Pt-X Hybrid Electrocatalyst for Cost-Effective Hydrogen Production in Alkaline Media.	Revati Avinash Dokhe	CSIR - National chemical Laboratory	Pune
P-145	**425**	Silver-based catalysts used in the selective catalytic reduction (SCR) of NOx with hydrogen: Water tolerance and efficient NOx conversion.	Vinod Akaram Lohar	CSIR -National chemical laboratory Pune	Pune
P-146	**426**	Engineering Next-Generation Cellulose Acetate Electrospun Fiber Mats: A Sustainable Solution for Absorbent Cores in Female Hygiene Applications	Roshni Pattanayak	CIPET:SARP-LARPM	Bhubaneswar
P-147	**427**	Optimisation of The Electrolyte Conductivity for Efficient Hydrogen Production in Alkaline Media.	Atul Ugale	CSIR-NCL	Wakad
P-148	**428**	The Salinity effect on decay lifetime of Ru-Si complex: a prospective study for dissolved oxygen monitoring	Gangadhar Mallikarjun Hattale	Department of Physics, Fergusson college (Autonomous)	Pune
P-149	**429**	Microcontroller Based PPG Sensor for Real-time Monitoring of Body Hemodynamic Parameters	Vaibhav Varpe	CSIR-NCL	Pune

P-150	**430**	Electrospun Coreâ€"Shell PAN/Cellulose Acetate Nanofiber Membranes as High-Performance Separators for Lithium-Ion Batteries	Arya Chandran	CIPET:SARP-LARPM	Bhubaneswar
P-151	**431**	Evaluating the role of polymeric binders in enhancing durability and performance in supercapacitor applications	Dibyasha Panda	CIPET:SARP-LARPM	Bhubaneswar
P-152	**435**	Development of Mosquito-repellent cum multifunctional Polyester using Novel Colorants	Nikhil Shaiwale	Indian Institute of Technology Delhi	New Delhi
P-153	**436**	Eco- Engineered Zeolite Composites infused with Carotenoids Extracts for Water purification	Smruti Rathwa	ITM Vocational University, Waghodia	Vadodara
P-154	**438**	Enhanced Toughness of PLA-Based Biodegradable Films for Sustainable Food Packaging Applications	Chinmaya Acharya	CIPET:SARP-LARPM	Bhubaneswar
P-155	**447**	Development of Contact-Drawn Xanthan Gum/Polyethylene Oxide microfibers: preparation and characterization for Potential Biomedical Applications	Vikas Shukla	AIIMS	New Delhi
P-156	**448**	Bioactive Compound-Assisted Green Synthesis of Copper Nanoparticles from Copper dust for Enhanced Antimicrobial and Drug Delivery Systems.	Avinash Kumar Pathak	Mangalayatan University	Aligarh
P-157	**452**	Energy harvesting by self-powered Pulse sensor based on triboelectric nanogenerator	Sashwata Sahoo	CIPET SARP LARPM	Bhubaneswar
P-158	**454**	Synthesis and Study of Conjugated Polymers via Metal Free Aldol Condensation Polymerization Strategy	Sneh Kamleshbhai Patel	MS University	Vadodara
P-159	**460**	Electrospun nanofiber derived from X-ray film functionalized with ZnO nanoparticle and crystalline nano cellulose: converting biomedical waste into high performance antibacterial membrane.	Satyabrata Sahoo	Ravenshaw University	Cuttack
P-160	**463**	Green Development of PLA-Based Composite Films with Natural Fillers for Agricultural Sustainability	Anupam Kumar Gupta	Ravenshaw University	Cuttack
P-161	**465**	Smartly passivated Nanocarbon-Enforced Poly(N-isopropylacrylamide) Hydrogel for Effective Healing of Damaged Skeletal Muscle	Niranjan Chatterjee	Indian Institute of Technology	Kanpur
P-162	**472**	Waste-Derived Carbon Materials for High-Performance Supercapacitor Electrodes	Shama Parveen	Indian Institute of Technology Delhi	New Delhi