APA 2026, Bhopal

Poster Presentations

Session 3 | Poster Session

Day-1 | 16th Nov, 2026 | Time: 14:00-15:00

Poster ID	ABS ID	Abstract Title	Full Name	Institution / Affiliation	City
P-1	5	Studies on Bioactive Sodium Alginate-based Membranes for Wound Care System	**Pooja Badsara**	Mohanlal Sukhadia University	Udaipur
P-2	7	Fabrication of Bioactive Cotton Fabric via Periodate Oxidation for Biomedical Application	**Nirmal Rathore**	Mohanlal Sukhadia University	Udaipur
P-3	8	Surface Designing of Polylactic Acid Films for Biomedical Applications	**Megha Yadav**	Mohanlal Sukhadia University	Udaipur
P-4	9	Nanodesigning of Smart Polyvinyl Alcohol based Membranes for Water Disinfection	**Chesta Mehta**	Mohanlal Sukhadia University	Udaipur
P-5	10	Development of Antimicrobial Nano Silver Impregnated Polyethylene Terephthalate Fabric via Argon Plasma	**Rohini Verma**	Indian Institute of Technology Delhi	New Delhi
P-6	30	Efficient Removal of Toxic Cr (VI) from Industrial Waste by Using PANI-CMC Composite	**Praveen Kumar**	Indian Institute of Technology	Kanpur
P-7	31	Composition, Design, and Functional Properties of Biodegradable Sanitary Napkins - Advancements in Sustainable Menstrual Hygiene through Bio-Based Alternatives	**Devanshi Handa**	Indian Institute of Technology	Mandi
P-8	32	Optical Bio-Based Resins for Vat Photopolymerization	**Shagun**	Indian Institute of Technology	Mandi
P-9	34	Fabrication of SPVA/Chitosan-CNC-based Membrane Electrode Assembly via Wet-Interface Technique for Direct Methanol Fuel Cells	**Suranjana Mukherjee**	IISER	Bhopal
P-10	36	Sustainable synthesis of Zn doped, self N-Co-Doped Activated Carbon derived from Chitosan for High-Performance Supercapacitor Application	**Santosh Kumar Senapati**	VNIT Nagpur	–
P-11	37	Localized Multimodal Breast Cancer Therapy Using Microneedle-Integrated Photothermal-Photodynamic and Chemotherapy	**Nivedita Mukherjee**	Indian Institute of Technology	Mandi
P-12	41	In Situ Synthesized $CaCO_3$-Based Nanohybrid Composite Hydrogels for Controlled Ornidazole Release and Biomedical Applications	**Kalyani Prusty**	Sri University	Cuttack
P-13	43	Radiation assisted synthesis of carboxylic functionalized super porous PolyHEMA matrix: Process optimization and dye uptake study	**Poorvi Allawadi**	Bhabha Atomic Research Centre	Mumbai
P-14	44	Herbal Mediated Green Synthesis of CuO Nanoparticles Using Nyctanthes arbor-tristis and Their Biological Activities	**Chetna Parmar**	MLS University	Udaipur
P-15	47	Reprogramming of Tumor-Associated Macrophages Using Photosensitizer-Conjugated Mannan Nanoparticles for Enhanced Immuno-Photodynamic Therapy	**Punya Sunil**	Yenepoya deemed to be university	Ernakulam
P-16	52	MXene-MWCNT Hybrid Reinforced PA6 Nanocomposites for Electronic Packaging	**Priyam Srivastava**	Indian Institute of Technology	Jammu
P-17	54	Cellulose-Chitosan Composite Hydrogels for Controlled Phosphorous Release and Smart Agricultural Application	**Komal Pandey**	Indian Institute of Science Education and Research	Bhopal

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P-18	56	Gamma Radiation Assisted Fabrication of Polyvinyl pyrrolidone Functionalized PES beads: Characterization and Iodine Capture Study	**Anitta Thomas**	Homi Bhabha National Institute, Mumbai	Mumbai
P-19	58	Evaluation of In Vitro Degradation Kinetics of Radiopaque Alginate Microbeads	**Vidya U G**	Sree Chitra Tirunal Institute of Medical Science and Technology	Trivandrum
P-20	61	DFT and QM/MM Investigation of Thermodynamic Stability and Solvent Effects in Î±-Methylene-Î´-Valerolactone Oligomers	**Suryakanta Rana**	Indian Institute of Science Education and Research	Bhopal
P-21	64	Synthesis, Characterization and Rheological behavior of epoxy resin derived from silk worm pupae oil	**Sakshi Sahu**	Delhi Technological University	Delhi
P-22	65	Natural Biopolymer based hydrogel for controlled release of Fertilizer for Agriculture application	**Himanshi Bhardwaj**	Visvesvaraya National Institute of Technology Nagpur	–
P-23	70	Sustainable Recovery of Fish Proteins from Fish Processing Wastewater Using a Modified Chitosan-Based Bio-Flocculant	**Vaishnavi Ranjit Girase**	CSIR-NCL Pune	–
P-24	71	Development of Antifouling Hydrogel Membranes for Wound Management	**Chetna Verma**	Indian Institute of Technology	New Delhi
P-25	72	Thermo-Responsive Acrylamide–based Terpolymer for Injectable Drug Delivery Applications	**Vaibhavi Sathe**	CSIR-NCL Pune	–
P-26	73	Separation of Nickel(II) and Cobalt(II) from Aqueous Streams by Complexation Utilizing a Sulfonic Acid Containing Monomer Based Anionic Polymer	**Shivachalappa Mahadev Pyati**	CSIR-NCL Pune	–
P-27	75	ROS-Responsive Hydrogel-Based Microneedles for Next-Generation Nanotherapeutics	**Rowena Valeen Anchan**	Yenepoya (Deemed to be University)	Mangalore
P-28	76	Development of amphiphilic polymeric nanoconstruct as a drug delivery platform for the treatment of triple-negative breast cancer	**Suchithra Bangera**	Yenepoya (Deemed to be University)	Mangalore
P-29	77	Dextran Based Nanocarriers with ROS Scavenging Nanozyme to Treat Ulcerative Colitis in Drosophila Model	**Arukshitha Vishnupriya**	Yenepoya Research Centre	Mangalore
P-30	83	Waste PET-Derived BHET as a Dynamic Architect for Bio-based Self-Healing Polyurethanes with Tuneable Strength and Reversible Adhesion	**Sourav Ghosh**	Indian Institute of Technology	Roorkee
P-31	84	Sustainable Triboelectret Nanogenerator from Chemically Tailored Cellulose for Wearable Electronics	**Sunidhi Mishra**	Indian Institute of Technology	Saharanpur
P-32	86	Development of Sustainable Polyurethane Films from Lignin-Derived Triphenols: Hydrophobic, UV-Shielding, and Anticorrosive Properties	**Pandey Brij Bhushan Santosh**	The Maharaja Sayajirao University of Baroda, Kalabhavan	Vadodara
P-33	87	Synthesis and characterization of Keratin-Cellulose Acetate -Polypyrrole-based conductive nanofiber scaffold for biomedical application	**Nitesh Kumar**	Govt. Digvijay Auto PG College	Rajnandgaon
P-34	94	Bioinspired Functional Ternary Nanocomposite as an Efficient Flame-retardant Intumescent Surface Coating Material	**Himanshu Kumar Bhatt**	IISER	Bhopal
P-35	96	Research on chitosan-modified polyurethane foam and its application in textile dye removal	**Vikash Ganvit**	The Maharaja Sayajirao University of Baroda	Vadodara
P-36	99	Extracellular Matrix-Inspired Alginate/Magnesium Phosphate Nanofibers Coated 3D-Printed PLA Scaffolds for Enhanced Mineralization and Osteogenic Response	**Kajal Goswami**	Indian Institute of Technology Mandi	Mandi

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P-37	100	High-Performance Fire-Resistant Epoxy Nanocomposites Reinforced with Halloysite Nanotubes	**Devanand Bambole**	Sant Longowal Institute of Engineering & Technology (SLIET)	Chandrapur
P-38	106	Dual-and Triple-Dynamic Graphene Oxide-Enabled Epoxy Vitrimer Laminates with Closed-Loop Circularity	**Ashis Halder**	Indian Institute of Science	Bengaluru
P-39	112	Bacterial cellulose: A versatile polymer for biological applications	**Navya Kapoor**	Indian Institute of Technology	Mandi
P-40	114	Castor oil-based porous polyurethane composite foams using PDMS/MWCNT for oil-absorption application	**Madhu Matang**	The Maharaja Sayajirao University of Baroda	Vadodara
P-41	121	Waste Material as a Biobased Source of Calcium Carbonate in the Preparation of Styrene–Butadiene Rubber Composites	**Bhushan Subhash Patil**	Kavayitri Bahinabai Chaudhari North Maharashtra University	Jalgaon
P-42	124	Design and Synthesis of Polymeric Resins Using Renewable Sources for Formulating Coatings Suitable to Food Industry	**Pallavi Vikas Gite**	University Institute of Chemical Technology, KBC North Maharashtra University	Jalgaon
P-43	125	High Energetic Materials: Performance and Application in Propellants and Explosives	**Saurabh Gajanan Patil**	School of Chemical Sciences, KBC North Maharashtra University	Jalgaon
P-44	129	Synthesis of chitosan functionalized photochromic dye as responsive biomaterial	**Tannu**	Netaji Subhas University of Technology	Delhi
P-45	141	Efficiently Exfoliated MXene/Polydimethylsiloxane (PDMS)/SWCNT Nanocomposites for Flexible Resistive Strain Sensors with Ultra-Low Temperature Tolerance	**Murali E**	Indian Institute of Technology	Jammu
P-46	149	Flame retardant PP bio composites filled with ATH, APP and APP@nano-ATH microcapsules reinforced with surface modified sisal fiber (SF): Investigation of the mechanical, thermal, morphological and flammability properties of PP bio-composites.	**Malaya Ranjan Parida**	CIPET:SARP-LARPM, Patia, Bhubaneswar	Bhubaneswar
P-47	155	Development of Fluorescent Chitosan for solid state multicolor emission and Environmental remediation	**Keshav Kumar**	Netaji Subhas University of Technology	New Delhi
P-48	161	Nanofiller-Reinforced Polyacrylamide Hydrogels as pH-Responsive Deferoxamine Delivery Platforms: Synthesis, Characterization, and Computational Insights	**Sudharshan Prabhu**	Manipal School of Life Sciences	Parkala
P-49	162	Development of cross-linked Chitosan- azodye Schiff bases porous material for biomedical applications	**Priyanka Kumari**	Netaji Subhas University of Technology (NSUT)	Delhi
P-50	176	Radiation mediated development of bifunctional adsorbents containing amino and phosphonic groups for metal ion sequestration	**Shubhangi Atmaram Shelkar**	Bhabha Atomic Research Centre	Mumbai
P-51	184	Taro peel derived-carbon dots incorporated biodegradable chitosan-based films for active food packaging: Waste-to-wealth approach	**Umisha Kalia**	Indian Institute of Technology	Mandi
P-52	186	Mechanistic Insights into the Organocatalyzed Ring-Opening Polymerization of Îµ-Caprolactone: A DFT Investigation	**Naseefa Nidha KP**	Indian Institute of Science Education and Research	Bhopal
P-53	191	Paper industry waste valorization for the synthesis of Polyhydroxybutyrate (PHB) bioplastic	**Dimple Singh**	Indian Institute of Technology	Roorkee
P-54	192	Phytofabrication and Optimization of Copper Nanoparticles using Eucalyptus globulus for Sustainable Agricultural Applications	**Garima Shekhawat**	Mohanlal Sukhadia University	Udaipur

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P-55	202	Bio-Based Antidegradant System for Natural Rubber Composites	**Yogesh Jadhav**	Birla Institute of Technology and Science Pilani	Goa
P-56	229	3D-Printed Polycaprolactone/Alendronate-Loaded Hydroxyapatite Composite Scaffolds for Bone Regeneration and Immunomodulation in Osteoporotic Fracture	**Vedante Mishra**	Indian Institute of Technology	Mandi
P-57	232	Next-Generation PVA/CeO2 Nanocomposites: Engineering Interfaces for Smart Packaging, Biomedicine, and Environmental Remediation	**Babita Bodkhe**	CIPET	Bhopal
P-58	234	pH-Responsive Shape-Morphing Smart Hydrogel with Sr–Se Co-Doped Bioglass for Postoperative Osteosarcoma Management	**Sumit Behera**	Indian Institute of Technology	Mandi
P-59	235	Engineering Next-Generation Bio-Based Sustainable Formulations for High-Performance Absorbent Applications	**Roshni Pattanayak**	CIPET:SARP-LARPM, Bhubaneswar	Bhubaneswar
P-60	237	Fabrication of carrageenan-based nanocomposite films using CeO2 and lignin nanoparticles	**Payal Malik**	SLIET, Longowal, Punjab	Sangrur
P-61	248	Hot-Air-Oven-Assisted Synthesis and Optimisation of a Lasoda-Based Hydrogel: Swelling Behaviour, Characterisation, and Rheological Studies	**Susheel Kalia**	Indian Military Academy (IMA)	Dehradun
P-62	249	Engineered Graphene Oxide Hydrogels for High-Efficiency removal of Naphthalene and Anthracene from wastewater	**Mohd Iqbal Rather**	NIT Srinagar	–
P-63	252	An Anti-Freezing, Self-Adhesive PAM/PVA/Ni@CNTs Double-Network Hydrogel for Wearable Strain Sensing at Sub-Zero Temperatures	**Pooja Arulmurugan**	Vellore Institute of Technology	Chennai
P-64	254	Citrus reticulata biomass derived biofilm for sustainable food packaging application	**Amritanshu Pathak**	UPES	Dehradun
P-65	268	3D Printed Citric Acid Loaded Bentonite / PCL Scaffolds for treatment of Critical-Size Bone Defects	**Salil Gupta**	Indian Institute of Technology	Mandi
P-66	271	Decoding the Molecular Origins of Composition-Dependent Hydration and Transport in Choline-Geranate Ionic Liquids through Molecular Structure-Dynamics Correlations	**Dipesh Gehlot**	Maulana Azad National Institute of Technology	Bhopal
P-67	272	TfOH-Mediated Concurrent Nitrile Cyclotrimerization and Benzoxazine Ring-Opening towards Triazine-Rich Polybenzoxazine Thermosets	**Jigyasa Tripathi**	Shiv Nadar Institution of Eminence	Delhi NCR
P-68	277	Macrocycle derived Covalent Organic Framework via Interfacial Linker Exchange	**Nikhil Bareth**	Indian Institute of Science Education and Research	Bhopal
P-69	280	Highly Stretchable and Sensitive Hydrogels for Human Motion Detection	**Naila Nousheen**	NIT Srinagar	–
P-70	286	Development and Characterization of rGO/Poly(AAm)-Grafted Olibanum Conductive Hydrogel for Flexible Triboelectric Nanogenerator	**Asma Shahzadi**	NIT Srinagar	–
P-71	290	AI-Assisted Microplastic Removal from Water and Wastewater: A Critical Review of Conventional, Advanced and Hybrid Treatment Technologies	**Shriya Das**	CIPET: SARP- LAPM	Bhubaneswar
P-72	291	Green Solvent-Assisted Upcycling of Crosslinked Industrial Solar-Grade EVA Trimmings into Value-Added EVOH-Based Material	**Keshav Sharma**	CIPET : SARP - LARPM	Bhubaneswar
P-73	293	Development of Polymer based multifunctional hydrogel as a therapeutic platform for modulating Inflammatory Bowel Disorder (IBD)	**Disha Pramanick**	Indian Institute of Technology	Mandi

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P-74	294	Development and Functional Characterization of Oxidized Guar Gum-Based Films for Active Food Packaging	**Vidya Sawant**	Institute of Chemical Technology Mumbai	–
P-75	296	In-vitro evaluation of the role of mesenchymal stem cells (MSCs) in the management of reactive astrogliosis in spinal cord injury	**Muskan Sharma**	Indian Institute of Technology	Ropar
P-76	298	Sustainable Indoor Panels from Agricultural Biomass Residues: A Critical Review of Materials, Processing and Performance	**Armaandeep Kaur**	Panjab University	Chandigarh
P-77	300	Modification of plant protein by dynamic high-pressure microfluidization (DHPM) for development of emulsion-filled gels (EFGs)	**Garima Yadav**	NIFTEM-Kundli	Sonipat
P-78	306	Biomimetic Citric Acid-Mediated Dual-Crosslinked Scaffold remodels the niche post Spinal Cord Injury by promoting functional recovery and reducing inflammation	**Manini Bhatt**	Indian Institute of Technology	Ropar
P-79	309	Engineering a multifunctional and Biocompatible Hemostatic System for Accelerated Hemostasis	**Shreyash Vijay Andagonde**	Indian Institute of Technology	Mandi
P-80	318	Spectroscopic Investigation of Metformin Interactions with NaDC Micelles and BSA for Drug Delivery Applications	**Yogita Nanabhau Salave**	Netaji Subhas University of Technology	New Delhi
P-81	322	Epoxidation of vegetable oils, their ring opening polymerization for polyurethane foam application	**Sachin Sonawane**	School of Chemical Sciences, KBCNMU	Jalgaon
P-82	325	Gauging Molecular Interface Architectonics of Amide Functionalization MWCNT@Metal Oxide for Energy Storage Devices	**Anuj Shrivastava**	Visvesvaraya National Institute of Technology	Nagpur
P-83	326	Earth's Living Sensors: Lichen-Inspired Biopolymers for Air Quality Monitoring	**Yamini Mishra**	Indian Institute of Technology Delhi	New Delhi
P-84	329	Development of Polymeric Lipidic-Sponge-Droplet Forming Materials For Biomedical Applications	**Tanmoy Jana**	IISER	Bhopal
P-85	332	In situ Mineralized Bone Matrix Micro-composite Bioink for Bone Regeneration	**Trisha Raghav**	Indian Institute of Technology	Mandi
P-86	338	Comparative Evaluation of Native Pseudomonas Isolates for Microbial Degradation of Kraft and Alkali Lignin	**Neelam Soni**	Institute of Chemical Technology	Thane
P-87	342	Impeller-Driven Mixing and Rheological Effects on Î³-PGA Production in a Bioreactor	**Vinayak Subhashrao**	Institute Of Chemical Technology	Mumbai
P-88	OFF-05	MXene-Functionalized SWCNT/Polyurethane Nanocomposite for Flexible Thermoelectric Module	**Saurabh Kumar Jha**	Indian Institute of Technology Delhi	New Delhi
P-89	OFF-06	Design, Synthesis of Tetraphenylbuta-1,3-diene Based Solid-State Emissive Porous Organic Polymers and their Applications	**Runa Mondal**	SRF, IACS	Kolkata