

APA 2026, Bhopal

Poster Presentations

As on 20 October 2026

ABS ID	Abstract Title	Full Name	Institution / Affiliation	City
5	Studies on Bioactive Sodium Alginate-based Membranes for Wound Care System	Pooja Badsara	Mohanlal Sukhadia University Udaipur	Udaipur
7	Fabrication of Bioactive Cotton Fabric via Periodate Oxidation for Biomedical Application	Nirmal Rathore	Mohanlal Sukhadia University	Udaipur
8	Surface Designing of Polylactic Acid Films for Biomedical Applications	Megha Yadav	Mohanlal Sukhadia University	Udaipur
9	Nanodesigning of Smart Polyvinyl Alcohol based Membranes for Water Disinfection	Chesta Mehta	Mohanlal Sukhadia University	Udaipur
10	Development of Antimicrobial Nano Silver Impregnated Polyethylene Terephthalate Fabric via Argon Plasma	Rohini Verma	Indian Institute of technology Delhi	New Delhi
30	Efficient Removal of Toxic Cr (VI) from Industrial Waste by Using PANI-CMC Composite	Praveen Kumar	Indian Institute of Technology	Kanpur
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	Mandi
32	Optical Bio-Based Resins for Vat Photopolymerization	Shagun	Indian Institute of Technology Mandi	Mandi
34	Fabrication of SPVA/Chitosan-CNC-based Membrane Electrode Assembly via Wet-Interface Technique for Direct Methanol Fuel Cells	Suranjana Mukherjee	IISER Bhopal, Ph.D Scholar	Bhopal
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	Nagpur
37	Localized Multimodal Breast Cancer Therapy Using Microneedle-Integrated Photothermal-Photodynamic and Chemotherapy	Nivedita Mukherjee	Indian Institute of Technology, Mandi	Mandi

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41	In Situ Synthesized CaCO ₃ -Based Nanohybrid Composite Hydrogels for Controlled Ornidazole Release and Biomedical Applications	Kalyani Prusty	SRI SRI UNIVERSITY	Cuttack
43	Radiation assisted synthesis of carboxylic functionalized super porous PolyHEMA matrix: Process optimization and dye uptake study	Poorvi Allawadi	BHABHA ATOMIC RESEARCH CENTRE	Mumbai
44	Herbal Mediated Green Synthesis of CuO Nanoparticles Using Nyctanthes arbor-tristis and Their Biological Activities	Chetna Parmar	MLS University	Udaipur
47	Reprogramming of Tumor-Associated Macrophages Using Photosensitizer-Conjugated Mannan Nanoparticles for Enhanced Immuno-Photodynamic Therapy	Punya Sunil	Yenepoya deemed to be university	Ernakulam
52	MXene-MWCNT Hybrid Reinforced PA6 Nanocomposites for Electronic Packaging	Priyam Srivastava	Indian Institute of Technology Jammu	Jammu
54	Cellulose-Chitosan Composite Hydrogels for Controlled Phosphorous Release and Smart Agricultural Application	Komal Pandey	Indian Institute of Science Education and Research Bhopal	Bhopal
56	Gamma Radiation Assisted Fabrication of Polyvinyl pyrrolidone Functionalized PES beads: Characterization and Iodine Capture Study	Anitta Thomas	Homi Bhabha National Institute, Mumbai	Mumbai
58	Evaluation of In Vitro Degradation Kinetics of Radiopaque Alginate Microbeads	Vidya U G	Sree Chitra Tirunal Institute of Medical Science and Technology	Trivandrum
61	DFT and QM/MM Investigation of Thermodynamic Stability and Solvent Effects in α -Methylene- δ -Valerolactone Oligomers	Suryakanta Rana	Indian Institute of Science Education and Research Bhopal	Bhopal
64	Synthesis, Characterization and Rheological behavior of epoxy resin derived from silk worm pupae oil	Sakshi Sahu	delhi technological university	Delhi
70	Sustainable Recovery of Fish Proteins from Fish Processing Wastewater Using a Modified Chitosan-Based Bio-Flocculant	Vaishnavi Ranjit Girase	CSIR NCL PUNE	Pune

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71	Development of Antifouling Hydrogel Membranes for Wound Management	Chetna Verma	IIT Delhi	Delhi
72	Thermo-Responsive Acrylamide-based Terpolymer for Injectable Drug Delivery Applications	Vaibhavi Sathe	CSIR-NCL Pune	Pune
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	Pune
75	ROS-Responsive Hydrogel-Based Microneedles for Next-Generation Nanotherapeutics	Rowena Valeen Anchan	Yenepoya (Deemed to be University)	Mangalore
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
77	Dextran Based Nanocarriers with ROS Scavenging Nanozyme to Treat Ulcerative Colitis in Drosophila Model	Arukshitha Vishnupriya -	Yenepoya Research Centre	Mangalore
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, SAHARANPUR CAMPUS	Saharanpur
84	Sustainable Triboelectret Nanogenerator from Chemically Tailored Cellulose for Wearable Electronics	Sunidhi Mishra	IIT Roorkee Saharanpur campus	Saharanpur
86	Development of Sustainable Polyurethane Films from Lignin-Derived Triphenols: Hydrophobic, UV-Shielding, and Anticorrosive Properties	Pandey Brij Bhushan Santosh	Dept. of Applied Chemistry, Faculty of Technology and Engineering, The Maharaja Sayajirao University of Baroda, Kalabhavan	Vadodara
87	Synthesis and characterization of Keratin-Cellulose Acetate -Polypyrrole-based conductive nanofiber scaffold for biomedical application	Nitesh Kumar	GOVT. DIGVIJAY AUTO. PG COLLEGE RAJNANDGAON, C.G.	Rajnandgaon
94	Bioinspired Functional Ternary Nanocomposite as an Efficient Flame-retardant Intumescent Surface Coating Material	Himanshu Kumar Bhatt	IISER Bhopal	Bhopal

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96	Research on chitosan-modified polyurethane foam and its application in textile dye removal	Vikash Ganvit	The Maharaja Sayajirao University of Baroda	Vadodara
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
100	High-Performance Fire-Resistant Epoxy Nanocomposites Reinforced with Halloysite Nanotubes	Devanand Bambole	Sant Longowal Institute of Engineering & Technology (SLIET)	Chandrapur
106	Dual-and Triple-Dynamic Graphene Oxide-Enabled Epoxy Vitrimers Laminates with Closed-Loop Circularity	Ashis Halder	Indian Institute of Science	Bengaluru
112	Bacterial cellulose: A versatile polymer for biological applications	Navya Kapoor	IIT Mandi	Mandi
114	Castor oil-based porous polyurethane composite foams using PDMS/MWCNT for oil-absorption application	Madhu Matang	Department of Applied Chemistry	Vadodara
121	Waste Material as a Biobased Source of Calcium Carbonate in the Preparation of Styrene-Butadiene Rubber Composites	Bhushan Subhash Patil	School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, MS, India	Jalgaon
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, Umavi Nagar, Jalgaon - 425 001	Jalgaon
125	High Energetic Materials: Performance and Application in Propellants and Explosives	Saurabh Gajanan Patil	School of Chemical Sciences, KBC North Maharashtra University, Jalgaon	Jalgaon
129	Synthesis of chitosan functionalized photochromic dye as responsive biomaterial	Tannu	Netaji Subhas University of Technology, Dwarka sector-3	Delhi

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141	Efficiently Exfoliated MXene/Polydimethylsiloxane (PDMS)/SWCNT Nanocomposites for Flexible Resistive Strain Sensors with Ultra-Low Temperature Tolerance	Murali E	IIT JAMMU	Jammu
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
155	Development of Fluorescent Chitosan for solid state multicolor emission and Environmental remediation	Keshav Kumar	Netaji Subhas University of Technology , New Delhi	West
161	Nanofiller-Reinforced Polyacrylamide Hydrogels as pH-Responsive Deferoxamine Delivery Platforms: Synthesis, Characterization, and Computational Insights	Sudharshan Prabhu	Manipal School of Life Sciences	Parkala
162	Development of cross-linked Chitosan- azodye Schiff bases porous material for biomedical applications	Priyanka Kumari	Netaji Subhas University of Technology (NSUT)	Delhi
176	Radiation mediated development of bifunctional adsorbents containing amino and phosphonic groups for metal ion sequestration	Shubhangi Atmaram Shelkar	Bhabha Atomic Research Centre, Mumbai	Mumbai
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	Kamand, Mandi
186	Mechanistic Insights into the Organocatalyzed Ring-Opening Polymerization of ϵ -Caprolactone: A DFT Investigation	Naseefa Nidha KP	Indian Institute of Science Education and Research Bhopal	Bhopal
191	Paper industry waste valorization for the synthesis of Polyhydroxybutyrate (PHB) bioplastic	Dimple Singh	IIT Roorkee	Roorkee
192	Phytofabrication and Optimization of Copper Nanoparticles using Eucalyptus globulus for Sustainable Agricultural Applications	Garima Shekhawat	Mohanlal Sukhadia University	Udaipur

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202	Bio-Based Antidegradant System for Natural Rubber Composites	Yogesh Jadhav	Birla Institute of Technology and Science Pilani K K Birla Goa Campus	Goa
229	3D-Printed Polycaprolactone/Alendronate-Loaded Hydroxyapatite Composite Scaffolds for Bone Regeneration and Immunomodulation in Osteoporotic Fracture	Vedante Mishra	IIT mandi	Mandi
234	pH-Responsive Shape-Morphing Smart Hydrogel with Sr-Se Co-Doped Bioglass for Postoperative Osteosarcoma Management	Sumit Behera	IIT Mandi	Angul
235	Engineering Next-Generation Bio-Based Sustainable Formulations for High-Performance Absorbent Applications	Roshni Pattanayak	CIPET:SARP-LARPM, Bhubaneswar	Bhubaneswar
248	Hot-Air-Oven-Assisted Synthesis and Optimisation of a Lasoda-Based Hydrogel: Swelling Behaviour, Characterisation, and Rheological Studies	Susheel Kalia	Associate Professor & Head Dept. of Chemistry, ACC Wing (Academic Block)	Dehradun
249	Engineered Graphene Oxide Hydrogels for High-Efficiency removal of Naphthalene and Anthracene from wastewater	Mohd Iqbal Rather	NIT Srinagar	Srinagar
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
254	Citrus reticulata biomass derived biofilm for sustainable food packaging application	Amritanshu Pathak	UPES	Dehradun
268	3D Printed Citric Acid Loaded Bentonite / PCL Scaffolds for treatment of Critical-Size Bone Defects	Salil Gupta	Indian Institute of Technology Mandi	Mandi
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	Beawar

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272	TfOH-Mediated Concurrent Nitrile Cyclotrimerization and Benzoxazine Ring-Opening towards Triazine-Rich Polybenzoxazine Thermosets	Jigyasa Tripathi	shiv nadar institution of eminence, Delhi NCr	Greater Noida
277	Macrocycle derived Covalent Organic Framework via Interfacial Linker Exchange	Nikhil Bareth	Indian Institute of Science Education and Research Bhopal	Bhopal
280	Highly Stretchable and Sensitive Hydrogels for Human Motion Detection	Naila Nousheen	NIT Srinagar	Srinagar
286	Development and Characterization of rGO/Poly(AAm)-Grafted Olibanum Conductive Hydrogel for Flexible Triboelectric Nanogenerator	Asma Shahzadi	NIT Srinagar	Srinagar
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
291	Green Solvent-Assisted Upcycling of Crosslinked Industrial Solar-Grade EVA Trimmings into Value-Added EVOH-Based Material	Keshav Sharma	CIPET : SARP - LARPM	Bhubaneswar
293	Development of Polymer based multifunctional hydrogel as a therapeutic platform for modulating Inflammatory Bowel Disorder (IBD)	Disha Pramanick	Indian Institute of Technology Mandi	Mandi
294	Development and Functional Characterization of Oxidized Guar Gum-Based Films for Active Food Packaging	Vidya Sawant	Institute of Chemical Technology Mumbai	Mumbai suburban
296	In-vitro evaluation of the role of mesenchymal stem cells (MSCs) in the management of reactive astrogliosis in spinal cord injury	Muskan Sharma	IIT Ropar	Rupnagar
298	Sustainable Indoor Panels from Agricultural Biomass Residues: A Critical Review of Materials, Processing and Performance	Armaandeep Kaur	Panjab University	Chandigarh
300	Modification of plant protein by dynamic high-pressure microfluidization (DHPM) for development of emulsion-filled gels (EFGs)	Garima Yadav	NIFTEM-Kundli, Sonapat, Haryana, India	Sonipat

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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	Rupnagar
309	Engineering a multifunctional and Biocompatible Hemostatic System for Accelerated Hemostasis	Shreyash Vijay Andagonde	Indian Institute of Technology Mandi	Mandi
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
322	Epoxidation of vegetable oils, their ring opening polymerization for polyurethane foam application	Sachin Sonawane	School of Chemical Sciences, KBCNMU, Jalgaon	Jalgaon
325	Gauging Molecular Interface Architectonics of Amide Functionalization MWCNT@Metal Oxide for Energy Storage Devices	Anuj shrivastava	Visvesvaraya national institute of technology, nagpur	Nagpur
326	Earth's Living Sensors: Lichen-Inspired Biopolymers for Air Quality Monitoring	Yamini Mishra	Indian Institute of Technology Delhi, New Delhi	Hauz-Khas
329	Development of Polymeric Lipidic-Sponge-Droplet Forming Materials For Biomedical Applications	Tanmoy Jana	IISER	Bhopal
332	In situ Mineralized Bone Matrix Micro-composite Bioink for Bone Regeneration	Trisha Raghav	IIT Mandi	Chandausi
338	Comparative Evaluation of Native Pseudomonas Isolates for Microbial Degradation of Kraft and Alkali Lignin	Neelam Soni	INSTITUTE OF CHEMICAL TECHNOLOGY	Thane
342	Impeller-Driven Mixing and Rheological Effects on γ -PGA Production in a Bioreactor	Vinayak Subhashrao	Institute Of Chemical Technology	Mumbai