APA 2026, Bhopal

Oral Presentations

As on 08 November 2026

ABS ID	Abstract Title	Full Name	Institution / Affiliation	City
39	Gum Ghatti (Anogeissus latifolia) and Moringa Gum (Moringa oleifera) as Sustainable Biopolymer Matrices in 3D-Printed Multilayered Oral Disintegrating Films for Personalized Botanical Nutrient Supplementation	Jadala Shankaraswamy	Sri Konda Laxman Telangana Horticultural University	Hyderabad
50	PVDF/Zn-MOF Nanocomposite Thin Films with Enhanced Interfacial Polarization and Dielectric Behavior	Rohan Sagar	NCHU	Taichung
51	Design and Development of High Performance PVDF based Flexible Composite Energy Harvesting Device for Wearable Electronics	Deshraj Meena	Delhi Technological University Delhi	Delhi
66	Sustainable Valorisation of Apple Peel Waste through Chitosan–Gum Arabic Biopolymeric Composite for Nutraceutical Applications	Sakshi Khushal Dange	Visvesvaraya National Institute of Technology Nagpur	Nagpur
82	Mucoadhesive microspheres of ferrous sulphate - a novel approach for oral iron deliveryin treating anemia	Rosemary M J	Corporate R & d Centre	Trivandrum
116	Development of Sustainable Bio-composite Mulch Film for Sustainable Agricultural Applications	Rajshree Vijayvargiya	Central Institute of Petrochemicals Engineering and Technology, CIPET, Raipur	Raipur
122	Sustainable Production and phytochemical screening of Cobalt Nanoparticles via Moringa oleifera Extract: A Promising Approach for Antibacterial Applications	Giriraj Tailor	Mewar University	Chittorgarh
123	Synthesis and characterization of Ni@Cu doped nanoparticles using Manilkara zapota seeds and their biological application	Saurabh Singh	M.L.V. Government College, Bhilwara	Bhilwara
126	Computational Simulations for Exploring Physicochemical Phenomena of Polymers	Anant D. Kulkarni	QBITNOVA TECH PVT. LTD	Solapur
140	Effect of thermally conductive potting on heat dissipation in electronics components	Amol Tarachand Naikwadi	UNO MINDA LTD	Pune
146	Functionalization of Green Synthesis of Carbon Dots with Polymer Matrix for Detection and Removal of Toxic Heavy Metal	Prakash Chandra	Department of Chemistry, Institute of Basic Science, Bundelkhand University Jhansi	Jhansi
148	Engineering Biomaterials for Vascular Repair: From Milli- to Micro-Scale Regeneration	Prerak Gupta	Maulana Azad National Institute of Technology Bhopal	Bhopal
154	Green Hydrothermal Synthesis of MXene and Its Synergistic Integration with Polypyrrole for Energy-Efficient Joule-Heating Textiles	Subhankar Maity	Uttar Pradesh Textile Technology Institute	Kanpur
156	Carrageenan: A next-generation biopolymer for sustainable applications in safe food packaging.	Naureen Khan	CIPET	Bhopal
163	Harnessing Ionic Liquid–Biopolymer Interactions for Efficient biomass Dissolution and Enhanced Fermentable Sugar Production	Madhusmita Dash	PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur, Madhya Pradesh	Puri
181	Fabrication and Evaluation of Nanofiber reinforced multilayered scaffold with tissue adhesive and anti-adhesive properties for Dural Tissue Engineering Application	Bhisham Narayan Singh	Manipal Academy of Higher Education	Manipal

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188	Development and Biodegradation Performance of PLA/PBS/Starch-Based Polymer Blends for Sustainable Packaging Applications	Asish Kumar Sahu	AKC-PTARC, Noida	Noida
189	Novel Heterogeneous Photocatalysts: A Strategic Route toward Enhanced Catalytic Activity for Energy and Environmental Applications	Sadanandam Gullapelli	Department of Chemistry, Indira Gandhi National Tribal University (A Central University)	Amarkantak
193	Next-Generation phyto-nanoengineered ceramic-polymeric bone substitutes for augmenting regeneration in Critical Defects	Sneha Singh	Birla institute of Technology, Mesra	Ranchi
196	Polymer Modelling – How Physics-based and Machine Learning Models Can Help?	Sudharsan Pandiyan	Schrödinger India Private Limited	Bengaluru
197	Synthesis of Polyzirconocarbosilane as a Precursor Material for Next-Generation Silicon Carbide Fibers	Amit Agnihotri	DRDO	Kanpur
198	Ultrasound-Assisted Green Grafting of Warfarin Sodium onto Chicory Inulin and its enhanced Antioxidant Activity	Himanshu Rani	Sant Longowal Institute of Engineering and Technology	Sliet, Longowal ,punjab
206	Advanced Thermally Conductive and Anti-Corrosion Elastomeric Composite for High-Performance EMI/EMC Shielding in Automotive and Electric Vehicle Applications	Bhushan Patil	Uno Minda Limited	Pune
211	Synthesis and Characterization of Biodegradable Biopolymeric Hydrogels and Films for Wound Healing Applications	Ashwini Wali	Ramaiah Institute of Technology	Bengaluru
239	ABC Terpolymers Composed of Rationally Varied Modifiable Activated Ester Pendant Groups: Synthesis, Characterization and Cytotoxic evaluation	Dhanya M Shetty	Yenepoya(deemed to be University)	Mangalore
241	Heterogeneous Polypropylene Catalysis: Effect of External Donors on Polymerization and Product Properties	Nem Singh	Reliance Industries Limited	Navi Mumbai
242	Amphiphilic Cellulose Nanofibrils in Thermoplastic Starch Nanocomposites for Food Packaging Applications	Dheeraj Ahuja	Department of Chemical Engineering, Motilal Nehru National Institute of Technology Allahabad	Prayagraj
250	Additive manufacturing in medical prosthetic applications: A comprehensive review on materials, processes, and functional outcomes	Swati Singh	CIPET	Bhopal
266	Textile Recycling: Fabrication of Recycled Polyethylene terephthalate (rPET) POY and DTY Yarn from Surat's Textile Waste Fabric	Bhabatosh Biswas	The Man-Made Textiles Research Association (MANTRA)	Surat
282	Evaluating Next-Generation EPE-DC Polymeric Encapsulant against EPE and EVA in Solar Cell Laminates Under Harsh Moisture Exposure	Bhuwanesh Kumar Sharma	Rayzon Solar Limited	Surat
289	Effect of Modified Hexagonal Boron Nitride (m-hBN) Nanofiller on the Mechanical and Thermal properties of UV-cured Polyurethane acrylate (PUAP) Coatings	Debasmita Mohanty	CIPET: SARP- LARPM, Bhubaneswar, Odisha	Bhubaneswar
292	Multifunctional selenium nanoparticle-loaded self-assembled peptide gel for enhanced wound healing	Saurav Kumar	IIT mandi	Mandi
310	Sesional distribution of microplastics in River Beas	Sarita Pathania	SPU Mandi	Mandi
323	Numerical Investigation of Fibre Diameter and Hollowness Effects on the Thermal Insulation of Ultra-Low-Density Hollow Polyester Nonwovens	Amit Kumar	Department of Mechanical Engineering, Indian Institute of Technology Delhi, INDIA	Sagar, M.P.

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324	Sustainable Wax in Tyre Compounds: Chemical Characterisation and Performance Evaluation of Sorbitan Monostearate	Sudeep Dey	Hari Shankar Singhania Elastomer and Tyre Research Institute	Metagalli, Mysuru
337	MECHANICAL RECYCLING OF GRAPHENE-COATED NATURAL FIBER/EPOXY COMPOSITES FOR SUSTAINABLE MATERIALS APPLICATIONS	Khurshid Malik	Linköpings universitet	Linköping
340	Biomass-Derived Carbon-Polymer Composites for Solid-State Batteries: Materials, Interfaces and Future Perspectives	Gopal Carpenter	ICAR- Central Institute of Agricultural Engineering Bhopal	Bhopal
345	Organometallic-Assisted Electrodeposition of NiFe Nanostructures for Efficient Oxygen Evolution under Ambient Conditions	Parul Aggarwal	CSIR-AMPRI	Bhopal
346	Development and Performance Evaluation of Thermally Treated Biomass-Based Plaster with Partial Sand Replacement	Ankur Nagori	ICAR-CIAE, Bhopal	Bhopal
OFF-03	Pyrolytic Conversion of Plastic Waste into Value-Added Fuels and Products.	Neeraj Agarwal	CIPET	Bhopal
OFF-08	Analytical Solutions for Polymer and Product Characterization	Srijith Edakkanam	Waters India Pvt. Ltd.	–