

APA 2025 Udaipur | Invited Speakers

ABS ID	ABS.Title	Author Full Name	Institution/Affiliation	City/Country
3	Development of in vitro Tissue Engineered Model for Giant Cell Tumour of Long Bones	Amit Kumar Jaiswal	Vellore Institute of Technology Vellore	Vellore
6	Smart Polymeric Nano/Microgels for Good Health and Zero Hunger	Garima Agrawal	Indian Institute of Technology	Mandi
36	Orange Waste Valorization to design a sustainable Biomaterial, as Nutraceutical Health Supplement by Molecular Imprinting	Anupama Kumar	Visvesvaraya National Institute of Technology	Nagpur
39	Biodegradable Polymer Nanocomposites for Self-Powered Smart Systems: A Sustainable Leap in Energy Harvesting and Biomechanical Sensing	Kalappa Prashantha	Adichunchanagiri University	B G Nagar
40	Sustainable Valorization of Textile and Agro-Wastes into functional Cellulosic Materials	Archana Samanta	Indian Institute of Technology Delhi	New Delhi
42	Supersonic solution blowing: a novel method in nonwoven to produce 50 nm fibers en masse	Sumit Sinha Ray	Indian Institute of Technology Delhi	New Delhi
45	Exploring Processing Parameters for the Preparation of Polyaniline Incorporated Soy Protein Isolate Film	Rakesh Kumar	Central University of South Bihar	Gaya
56	Wound Healing Efficacy of a Drug-Free Nanocomposite Hydrogels in Drosophila and Rat Models	Sarat Kumar Swain	Veer Surendra Sai University of Technology	Sambalpur
69	Clay Based Nanocomposite Hydrogels Containing Metal Nanoparticles	Dharmesh Varade	Navrachana University	Vadodara
78	Smart Molecularly Imprinted Polymers: Next-Generation Recognition Platforms for Biosensing Applications	Ashish Mathur	UPES	Dehradun
86	Pellet Extrusion 3D Printing of Polymer-Ceramic Composites for Cleft Palate Repair: Design, Fabrication, and Preliminary Evaluation	Shiny Velayudhan	Sree Chitra Tirunal Institute for Medical Sciences and Technology	Trivandrum
87	Cellulosic paper-polymethyl methacrylate device for heavy metal detection	Ashish Kapoor	Harcourt Butler Technical University	Kanpur
92	Biomaterials for tissue regeneration applications	Yashveer Singh	Indian Institute of Technology	Ropar

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113	Isolation and characterization of dyes molecules from the plant parts, procedure optimization and up gradation of the traditional system of natural dyeing using the natural and metallic mordant's - A sustainable and green approach	Mahesh Chandra Purohit	H.N.B. Garhwal Central University, BGR Campus	Pauri
124	Hydrogel-filled synthetic polymer membranes for water, energy and healthcare applications	Ashok Kumar Pandey	Principal Scientific Advisor and Chairman R&D cell, HSNC University	Mumbai
144	Metal Ion Cross-Linked Mechanically Robust and Stretchable Polymer Hydrogels for Strain sensing and Flexible Energy Storage Devices	Rajat Kumar Das	Indian Institute of Technology	Kharagpur
187	Fabrication of nanostructured chitosan - based films for food preservation applications: An investigation of graphene stacks on mechanical and barrier properties	Sidhharth Sirohi	Bhaskaracharya College Of Applied Sciences (University Of Delhi)	Delhi
205	"Smart Polymeric Systems for Sustainable Delivery and Protection: Advances in Microencapsulation, Hydrogels, and Self-Healing Materials"	Vikas Vitthal Gite	School of Chemical Sciences, KBC North Maharashtra University	Jalgaon
220	Fabrication of Biosensors for Food toxins and food adulterants	Sumana Gajjala	National Physical Laboratory	New Delhi
221	Liquid crystal Based Dielectric Nucleic acid Biosensor for Label-Free Detection of Neisseria gonorrhoeae	Rajesh	CSIR-National Physical Laboratory	New Delhi
232	Polyurethane polymers from bio-based building blocks and their multifaceted applications	Rakesh K. Sharma	The Maharaja Sayajirao University of Baroda	Vadodara
238	Self-assembled Hydroxyapatite Nano-spicule Coating on 3D Printed PLA Scaffolds with Bactericidal Activity for Bone Regeneration	Sumit Murab	Indian Institute of Technology	Mandi
239	Synthesis and Characterisation of Kaolin integrated Gellan gum based composite sponge	Ashika Suresh	Sree Chitra Tirunal Institute for Medical Science and Technology	Trivandrum
254	Sustainable Waste Management via Recycled Cigarette Butts for Advanced Tactile Sensors: Electro Spun PVDF (Poly Vinylidene Fluoride)/Cellulose Acetate/MWCNT (Multi Walled Carbon Nanotubes) Nanofiber Composites	Alka Gupta	CSJM University	Kanpur
256	Role of Plant-Based Polymers in Sustainable and Eco-Consconscious Smart Packaging	Dakuri Ramakanth	Indian institute of Technology	Roorkee
284	Energy Augmentation of Triboelectric Nanogenerator by Interface Engineering in Polymer and Polymer Composites	Ankur Goswami	Indian Institute of Technology Delhi	New Delhi

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297	Toward Sustainable Quaternary Hydrogels: Multithiol-Lignin Crosslinkers and Green Quaternization Approaches	Kalpana Chauhan	Central University of Haryana, Mahendergarh	Mahendergarh
301	Harnessing Fluoropolymers for Advanced Corrosion Mitigation in Industrial Applications	Raxit Rodiya	Gujarat Fluorochemicals Limited	Vadodara
305	Curcuma caesia supplementation attenuates hyperglycemia-induced oxidative stress and apoptosis in STZ-induced diabetic mice	Surya Bhan	North-Eastern Hill University	Shillong
347	Improving Mechanical Performance of Bioactive Chitosan-Hydroxyapatite Membranes Using Functionalized MWCNTs for Guided Bone Regeneration	Himansu Sekhar Nanda	IIITDM	Jabalpur
357	Electroactive polymer and carbon materials for bipolar/wireless actuation	Bhavana Gupta	UPES	Dehradun
363	Toward Sustainable Self-Healing Materials: Vitrimers Composite Systems	Sravendra Rana	UPES	Dehradun
365	Advancement in Environmental and Health Monitoring: Customization of Organic-Doped Polyethyleneimines for Improved Durability and Performance	Nilanjan Dey	Birla Institute of Technology and Science Pilani	Hyderabad
371	Synthesis & Application of the Azo-based Metallopolymers as Novel Electrocatalysts for Hydrogen Evolution Reaction	Anasuya Bandyopadhyay	Indian Institute of Technology	Roorkee
385	Agriwaste-derived biopolymers: A Sustainable and Effective Substrate for Immobilizing Enzymes for Wastewater Remediation	Anupama Sharma	Panjab University	Chandigarh
386	Controlled Drug Delivery for Better Healthcare	Pralay Maiti	Indian Institute of Technology (BHU)	Varanasi
394	Effect of Rice Husk Ash particles on Mechanical Properties and Microwave Absorption of Glass Fiber Reinforced Epoxy Hybrids	Rajendra Kumar Goyal	MNIT	Jaipur
404	Mucoadhesive Polymers as In-Situ Gels and 3D Printed Films for Buccal Delivery of Cannabinoids	Ali Seyfoddin	Auckland University of Technology	Glenbrook
414	Sustainability and Circularity in Plastics Waste: Assessment, Opportunities and Challenges in Biobased, Biodegradable and Recycled Plastics	Smita Mohanty	Central Institute of Petrochemicals Engineering & Technology (CIPET)	Bhubaneswar

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415	Multifunctional Chitosanâ€”Azo Schiff Bases with Photoresponsive and Antimicrobial Properties	Swapnil Laxman Sonawane	Netaji Subhas University of Technology (NSUT)	Delhi
442	Smart and Multifunctional Polymers: Bridging Innovation and Application	Dibyendu Sekhar Bag	Defence Materials and Stores Research and Development Establishment (DMSRDE)	Kanpur
443	Revolutionizing Food Packaging with Sustainable Polymers: Indian Innovations and Challenges	Kirtiraj K Gaikwad	Indian Institute of Technology	Roorkee
446	Hydrogen Energy and CSIR: Connecting Deep Science with Technologies	Sreekumar Kurungot	CSIR-National Chemical Laboratory	Pune
449	Synthesis and Study of Conjugated Polymers via a Green Indophenine Polymerization Strategy	Arunkumar Patel	The Maharaja Sayajirao University of Baroda	Vadodara
453	Advances in Polymeric Nanocomposite - Based Functional Membranes for Water Purification	Shikha Wadhwa	UPES	Dehradun
459	Herbal Bioengineering: A Convergence of Ayurveda and Modern Science for Wound Healing and Human Health	Rahul Sherkhane	Institute of Medical Sciences, Banaras Hindu University	Varanasi
461	Polymerization reactions in the atmosphere	Ravi Kant Pathak	University of Gothenberg, Gothenberg Sweden	
464	Flexible Devices Beyond Triboelectricity: Combating Charge Artifacts for Antistatic and True Piezoelectric Performance	Tridib Kumar Sinha	UPES	Dehradun
468	Sugarcane Bagasse Derived Hemicellulose-Clay Nanocomposite Aerogel for Controlled Release of Fertilizer	Deepak Pathania	Central University of Jammu	Jammu & Kashmir
466	Physiochemical and antimicrobial properties of chitosan/gelatin/Ag@TiO2 nanocomposites for food packaging applications	Santosh Kumar	Harcourt Butler Technical University	Kanpur
467	Closed-loop recyclable crosslinked polymeric materials via dynamic transesterification	Ramkrishna Sarkar	Indian Institute of Technology	Kanpur
470	Plant Bio-actives, Drug Combinations, and Processing for Novel Drug Leads: An Integrated Approach from Tradition to Technology	Binay Sen	Banaras Hindu University	Varanasi