

**APA 2024 Jaipur | Invited Talk**

<b>ABS ID</b>	<b>ABS.Title</b>	<b>Full Name</b>	<b>Institution/Affiliation</b>	<b>City</b>
<b>8</b>	Development of Plasticizer Free polymer matrix using reactive nanogel additives for Biomedical application	Manju Sarswathy	Sree Chitra Tirunal Institute for Medical Sciences and Technology	Thiruvananthapuram
<b>9</b>	Value addition of Pomegranate Peels: From Healthcare to Energy Applications	Anupama Kumar	Visvesvaraya National Institute of Technology	Nagpur
<b>63</b>	Cellulose nanomaterials for advanced applications: Approach towards a sustainable and circular ecosystem	Pradip Kumar Maji	Indian Institute of Technology Roorkee	Saharanpur
<b>90</b>	Eco-friendly Smart Self-healing Multifunctional Polyurethane Coatings and Composites	Vikas Gite	Kavayitri Bahinabai Chaudhari North Maharashtra University	Jalgaon
<b>109</b>	What affects stomatal cell resultant surface charge or surface charge composition	Shamayita Patra	SVITT, SVV	Indore
<b>144</b>	Synthesis and characterization of sulfur-containing polymers: An overview	Susanta Banerjee	Indian Institute of Technology	Khargpur
<b>148</b>	Design and 3D printing wollastonite reinforced PLA/PCL composite scaffolds for bone tissue engineering	Himansu Sekhar Nanda	PDPM-IIITDM	Jabalpur
<b>149</b>	Antioxidant, Tensile Strength and Biodegradation Behaviour of Quercetin Incorporated Soy Protein Isolate Films	Rakesh Kumar	Central University of South Bihar	Gaya
<b>153</b>	Transport of Diclofenac from Chitosan and Chitosan-albumin nanoparticles: A Comparative In Vitro Analysis	Goutam Thakur	Manipal Institute of Technology, MAHE	Manipal
<b>177</b>	Polymers in Circular Economy: An approach to sustainability for Indian Industries	Anil Kumar Satapathy	Finolex Industries Limited	Ratnagiri
<b>179</b>	Modeling Polymers for Sustainable Energy Generation: Quantum Mechanical and Density Functional Theory Approach	Anant D Kulkarni	Somaiya Vidyavihar University	Mumbai

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<b>187</b>	Plasma mediated Dyeing of Cotton Fabric from Temple Flower ( <i>Hibiscus rosa sinensis</i> ) Waste	Shamayita Patra	SVITT, SVV	Indore
<b>196</b>	Germicidal textiles - novel ways of applying Copper nanoparticles	Arun Kumar Patra	Uttar Pradesh Textile Technology Institute	Kanpur
<b>205</b>	4D Biomaterials: Beyond three dimensions	Amit Nain	Indian Institute of Science	Bangalore
<b>248</b>	Value Addition of Agro-waste Derived Functionalized Biopolymers for Sustainable Food Application	Tabli Ghosh	Tezpur University	Sonitpur
<b>279</b>	An Industrial Method to Produce Biocompatible Polymers, Nanocomposites and Immunomodulatory Macromolecules towards Next Generation Medical Devices and Vaccine Technology	Lakshminarayanan Ragupathy	HLL Lifecare Limited	Thiruvananthapuram
<b>280</b>	Transparent cellulosic composites- fabrication and applications	Archana Samanta	Indian Institute of Technology Delhi	New Delhi
<b>288</b>	Mechanically robust, Stretchable and Adhesive Anti-freezing Polymer Hydrogel Materials for multifunctional applications	Rajat Kumar Das	Indian Institute of Technology	Kharagpur
<b>296</b>	Modification of Lignin and Development of its Polymer Composites	Satyendra Mishra	NMU	Jalgaon
<b>298</b>	Compostable Polymer Nanocomposites Films for Flexible Packaging	Jayita Bandyopadhyay	Council for Scientific and Industrial Research	South Africa
<b>322</b>	Bacterial Cellulose- a tunable matrix for drug delivery	Mudrika Khandelwal	Indian Institute of Technology Hyderabad	Hyderabad
<b>344</b>	Quaternized Pullulan-Based Nanoplatfoms: A Multifunctional Solution for Antimicrobial Therapy, Wound Healing, and Preventing Implant-Associated Infections	Amit Jaiswal	Indian Institute of Technology Mandi	Mandi

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<b>365</b>	Antibacterial and Hemostatic Polymeric Hydrogels	Jayakumar Rangasamy	Amrita Vishwa Vidyapeetham	Kochi
<b>369</b>	Recent advances in nonedible oil-based polyurethane polymers: Synthesis, characterization, and coating applications in the food packaging	Rakesh K. Sharma	The Maharaja Sayajirao University of Baroda	Vadodara
<b>377</b>	Continuous Flow Synthesis of Conjugated Polymer Nanocomposites as Photocatalysts	Prem Felix Siril	Indian Institute of Technology	Mandi
<b>383</b>	Piezoelectric Nanofibers for Textile-based Wearable Electronics	Kaushik Parida	Indian Institute of Technology	Roorkee
<b>386</b>	Functional Designing of Tragacanth Gum Nanogels for Anticancer Drug Delivery	Deepak Pathania	Central University of Jammu	Jammu
<b>392</b>	New Dimensions of Bio Polyols to be used for specific performances	Jayant Khadilkar	Jay Elastomers Pvt Ltd	Navi Mumbai
<b>395</b>	Electroconductive Graphene-crosslinked-Collagen hydrogel Modulate Inflammation in Spinal Cord Regeneration	Akshay Srivastava	National Institute of Pharmaceutical Education and Research	Ahmedabad
<b>397</b>	Metal Salts as Catalysts in Ring-opening Polymerization of Cyclic Esters	Payal Malik	Sant Longowal Institute of Engineering and Technology, Longowal	Punjab
<b>398</b>	Tuning the physicochemical and dielectric properties of chitosan/ graphene nanocomposites	Sidharth Sirohi	Bhaskaracharya College of Applied Sciences ( University of Delhi)	New Delhi
<b>405</b>	Highly versatile electrospun nanofibers for piezoelectric, pyroelectric and photocatalytic applications	Jaspreet Kaur Randhawa	Indian Institute of Technology	Mandi
<b>407</b>	Ploxamer based Nanoformulations for enhanced brain delivery	Sabitha M	Amrita School of Pharmacy	Kochi

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410	Advances in Hydrogen-Based Polymer Electrolyte Fuel Cells: Innovations and Challenges	Santoshkumar D Bhat	CSIR-Central Electrochemical Research Institute Madras Unit	Madras
412	Surface and interface engineering for enhanced solar-to-H <sub>2</sub> conversion	Bhavana Gupta	UPES	Dehradun