

APA 2024 Jaipur | Poster Presentation

ABS ID	ABS.Title	Full Name	Institution/Affiliation	City
25	In -vivo evaluation of bioactive polyvinyl alcohol/lecithin-clove oil nanofibers	Chetna Verma	Indian Institute of Technology Delhi	New Delhi
35	One-pot synthesis of terpolymer derived from propylene oxide, carbon dioxide and L-lactide using Salcomine complexes.	Akanksha Ranade	Thapar Institute of Engineering and Technology	Patiala
64	Self-assembled Floral-patterned Hydroxyapatite Crystals Coating on 3D Printed PLA Scaffolds for Bone Regeneration	Ankita Negi	Indian Institute of Technology	Mandi
69	Synthesis of Schiff base with Cellulose moiety for Metal ion Detection	Keshav Dev	Indian Institute of Technology Roorkee	Saharanpur
84	Formulation and Characterization of Cinnamon Extract loaded Cyclodextrin Nanosponge and Integration into Chitosan to Develop a Coating for Fresh Fish	Kushagra Pant	National Institute of Food Technology	Sonipat
111	Bi-layer composite dressing of electrospun chitosan/gelatin nanofibers and quantum dots loaded chitosan/alginate-based hydrogel for wound healing	Dimpy Bhardwaj	Indian institute of Technology	Mandi
146	Evaluating the Electrochemical Performance of Modified Cellulose and Carbon Nanotubes Hybrids for Supercapacitor Applications	Nitesh Choudhary	Indian Institute of Technology	Roorkee
151	Coconut husk lignin derived pH-responsive carbon dots: Synthesis and property evaluation for intelligent food packaging	Sangeetha U K	CSIR NIIST	Pappanamcode
154	Functional designing of plasma-grafted polypropylene mesh for antimicrobial applications	Vipula Sethi	Indian Institute of technology Delhi	New Delhi
155	Biofunctional Polyethylene terephthalate Surface by CO2 plasma Activation	Rohini Verma	Indian Institute of technology Delhi	New Delhi
157	Visible light-assisted organocatalyzed Atom Transfer Radical Polymerization (O-ATRP) using BODIPY Photocatalysts	Rahul Maurya	Indian Institute of Technology	Ropar

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164	Facile Synthesis and Polymerization of 1,4,5-oxadithiepan-2-one for Disulfide-based Redox-responsive Drug Delivery	Debojit Chakraborty	Indian Institute of Technology Delhi	New Delhi
167	Development of Mosquito Repellent and UV protective cotton fabric through Microencapsulation using Grapefruit Essential oil	Rupali Kakaria	National Institute of Fashion Technology, Delhi	New Delhi
171	Isolation, Modification and Characterization of Sago Starch	Sakshi Gupta	Dr S.S.B UICET Panjab University	Chandigarh
174	Transdermal application of Ayurvedic Formulation (Bidalaka) in the management of Acute conjunctivitis - A case series	Muhammed Hisham	All India Institute of Ayurveda	New Delhi
176	Design and synthesis of piperazine-based water-dispersible polyurethane coatings for biomedical applications	Anchal Gupta	Indian Institute of Technology Delhi	New Delhi
182	Next-Gen Food Packaging: Carbon Dots Embedded Ethyl Cellulose Fibrous Films	Bharath Perumal Pillai	Indian Institute of Technology	Jammu
183	Development of Infection-resistant Polylactic Acid Films for Biomedical Applications	Megha Yadav	University college of science,MLS University	Udaipur
186	Preparation and Characterization of Polyvinyl alcohol Nanocomposite Membranes for Disinfection of Water	Chesta Mehta	MLS University	Udaipur
188	Development and Characterization of Sodium Alginate-based Membranes for Wound Care System	Pooja Badsara	University college of science, MLS University Udaipur	Udaipur
190	Development and Characterization of Functionalized Cotton Fabric for Biomedical Applications	Nirmal Rathore	MLS University	Udaipur
192	Biofabrication of Zirconium Oxide Nanoparticles derived from Eucalyptus Globulus (Leaves) via facile and sustainable synthesis approach	Garima Shekhawat	Govt. Meera Girls College, MLS University	Udaipur

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194	Main-Chain Push-Pull Chromophores for highly sensitive and wide range detection of Fluoride	Ashish Sharma	Institute of Nano Science and Technology	Mohali
195	Chemically tailored cellulose nanocrystals as an anti-counterfeit material: scrutiny of their phase behavior	Shiva Singh	Indian Institute of Technology	Roorkee
200	Green Synthesis of Zinc Oxide Nanoparticles Using <i>Nyctanthes arbor-tristis</i> Extract: A Sustainable Eco-Friendly Approach	Chetna Parmar	Mohanlal Sukhadia University	Udaipur
204	Production, Extraction, and Characterization of Exopolysaccharides via sustainable bacterial-driven route for potential industrial applications	Abhinav Kumar Singh	Indian Institute of Technology	Roorkee
206	Stretchable and Lightweight Carbon nanotube/Polyester based Nanocomposite for Suppressing Electromagnetic Interference	Sakshey Mittal	Bhabha Atomic Research Center	mumbai
208	Up-scaling of polyvinylidene fluoride electrospun nanofibers with a needleless wire spinneret technique	Komal Kukreja	Indian Institute of Technology	Bombay
210	Pectin/PVA composite films reinforced with sporopollenin for food packaging application	Diksha Lingait	Visvesvaraya National Institute of Technology	Nagpur
211	High Temperature Polyaniline Composites as liner in Hybrid Hydrogen Storage Tanks	Gorbel B	Indian Institute of Technology	Jammu
212	Himalayan abundant <i>Tagetes minuta</i> (wild Marigold) essential oil embedded self-crosslinked chitosan films for active food packaging	Deepika Gupta	Indian Institute of Technology	Mandi
213	Utilization of an enormous waste produced by marigold flowers by its implementation in a polymer-based matrix for hygiene application	Roshni Pattanayak	CIPET:SARP-LARPM, Bhubaneswar	Bhubaneswar
216	Rapid dissolvable protein microneedles for instant delivery and enhanced long-term storage of biomolecules for biomedical application	Jayakumar R	Indian Institute of Technology	Hyderabad

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218	Injectable silk hydrogel loaded with combination of chemotherapeutic drugs for sustained drug delivery against breast cancer and cancer stem cells	Jeyashree K	Indian Institute of Technology	Hyderabad
219	Synthesis and Characterisation of IPN Hydrogels based on Chitosan and Polymethacrylate	Sreedev P	Government College	Kasaragod
220	Flexible Polymer Substrate for Mechanical Energy Harvesting using A Coating of BNT based Piezoelectric Ink	Bibhudutta Das	CIPRT-SARP:LARPM	Bhubaneswar
221	Preparation and Characterization of Polyvinyl Alcohol-Gelatin based Hybrid Nanocomposites for Packaging film Applications	Mayur Patil	School of Chemical Sciences, KBCNMU	Jalgaon
222	Novel crosslinker enabled PANI hydrogel synthesis and its electrochemical performance for supercapacitor applications	Samaresh Ghosh	Indian Institute of Technology	Roorkee
223	Natural Deep Eutectic Solvents: A Green and Sustainable Quest to Recover Î²-Carotene from Hibiscus	Manisha Gopal Verma	VNIT Nagpur	Nagpur
224	Synthesis and characterization of conducting copolymer via Suzuki-coupling reaction for flexible electrode in energy storage applications	Kumari Priya	Indian Institute of Technology	Roorkee
225	Efficient delivery of cytochrome C into cells via cationic dextrin nanoparticles for cancer treatment	Sanchita Sarkhel	Indian Institute of Technology	Mandi
226	Development of a sustainable adhesive binder sourced from modified linseed oil for printing ink application	Manjinder Singh	Indian Institute of Technology	Roorkee
227	Î²-cyclodextrin derived IPNs to generate superior proton conductivity in polymeric blend electrolytes: An experimental and molecular simulation-assisted approach	Ankita Chauhan	Indian Institute of Technology	Roorkee
228	Study on the effect of structural parameters of glass roving and knits on its acoustic behaviour	Siddhi Vardhan Singh Rao	Indian Institute of Technology Delhi	New Delhi

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231	Sustainable Bioactive Polyvinyl Alcohol based Wood Coating Films Reinforced with CNC and Ficus auriculata Extract	Tulika Sharma	Indian Institute of Technology	Roorkee
232	Trivial Positional Isomerism in Ligands Triggering Different Coordination, Memristive and Capacitance Properties in Fe(II)- Metallopolymers; Design, Synthesis, and Characterization	Shubham Bawa	Indian Institute of Technology	Roorkee
234	Application of Machine Learning Models To Understand Polymer-Solvent Interactions	Swatish Jena	IISER	BHOPAL
235	Extraction and Characterization of Cellulosic Fibres from Pearl Millet (Pennisetum glaucum)	Aditi Kushwaha	Indian Institute of Technology Delhi	New Delhi
238	Functionalized Castor Oil-pNIPAM based composite hydrogel film with NIR shielding ability for thermoresponsive smart windows and smart curtains	Nandhana Sudhakaran	CSIR-National Institute for Interdisciplinary Science and Technology	Thiruvananthapuram
239	Additive manufacturing of Natural Fiber-Reinforced High-Density Polyethylene Composites for structural applications	Nitin Kumar Arya	Indian Institute of Technology	Bombay
242	3D-Printed Chondroinductive Nano MnO ₂ -Salicylic Acid-PCL Composite Scaffolds for Osteochondral Regeneration	Saksham Handa	Indian Institute of Technology	Mandi
243	PEDOT: PSS/ Cellulose Composite Based Flexible Supercapacitor for Biomedical Applications	Deviprasad Sahoo	CIPET: SARP - LARPM	Bhubaneswar
244	Mineralized Himalayan Sheep Wool Based Composite 3D Printed Scaffolds with Curcumin for Osteosarcoma Management	Himanshi Diwan	Indian Institute of Technology, Mandi	Mandi
245	Design, Synthesis and Characterization of Redox-Active Heteroatomic Azo Based Ligands and their Ru (II) polymers as Novel Functional Materials	Sonal Sharma	Indian Institute of Technology	Roorkee
246	Self-healing Photo-mediated Sustainable Polybenzoxazine Networks	Bhavika Bhatia	Shiv Nadar Institution of Eminence	Greater Noida

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252	Development of Benzophenone/ Graphene Oxide Biocidal agent for anti-microbial property	Aleena A S	Amrita Vishwa Vidyapeetham	Ernakulam
254	Structurally guided degradable biobased polybenzoxazines with tetraoxaspiro linkages	Prashansa Gupta	Shiv Nadar Institution of Eminence	Uttar Pradesh
255	Flame retardant, highly flexible and lightweight aerogels based on cellulose nanofibers for thermal insulation applications	Shakshi Bhardwaj	Indian Institute of Technology	Roorkee
257	Investigating the Biological, Mechanical, and Photocatalytic Performance of Strontium Titanate and Its Flexible Polymeric Composite Film for Biomedical Applications	Tusharkanta Nayak	CIPET:SARP-LARPM	Bhubaneswar
258	Madhuca Indica (Mahua) Seed Oil towards Synthesis of Alkyd Resin and Polyurethane Anticorrosive Coatings: A Green Approach	Vikas Jayvant Patil	KBCNMU Jalgaon	Jalgaon
259	Epoxidized Cardanol Seed Oil as a Bio-Plasticizer for Poly(vinyl chloride) Soft Films	Bhushan Subhash Patil	School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University	Jalgaon
263	Optimised Process for Extraction of Fibres from Indian Industrial Hemp (Cannabis sativa L.)	Shivali Sahni	Indian Institute of Technology Delhi	New Delhi
264	Development of Sustainable Biocomposites from Alginate and biomass	Subhradeep Maitra	Indian Institute of Technology Delhi	New Delhi
265	Injectable thermo-responsive biopolymeric hydrogels for the treatment of tendon injuries	Komal Avinash Joshi	Indian Institute of Technology	Bombay
267	Enhancing Immune Efficiency Through Amino Acid-Based Polymeric Nanoparticles	Divya Pareek	Indian Institute of Science ,BHU	Varanasi
273	Polysaccharide-based Biopolymer Composite for Sustainable Packaging	Kalpana Rathore	Indian Institute of Technology Kanpur	Kanpur

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282	Improvisation of Biopolymer composite by incorporating with Micro fibrillated Cellulose for heat sealable packaging application	Ram Kumar Deshmukh	Indian Institute of Technology, Roorkee	Saharanpur
283	Poly (glycerol sebacate) Copolymers Based Biolubricants: Enzymatic Synthesis and Properties.	Vandana K	HLL Lifecare Ltd.	Thiruvananthapuram
284	Green Synthesis of Nickel Nanoparticles from Moringa oleifera leaf extracts and its antibacterial potential	Suresh Jandu	University college of science, MLS University	Udaipur
285	Hole controlled conducting polymer Actuators	Sukesh Kumar	Indian Institute of Technology Hyderabad	Sangaredey
287	Novel ethylene scavenger based on sillimanite and bentonite clay: a sustainable alternative for preservation of fresh produce	Pradeep Kumar	Indian Institute of Technology	Roorkee
293	Cationic Acylamide Copolymers for Enhanced Kaolin Flocculation: Synthesis, Characterization, and Performance Evaluation	Devika K S	CSIR-National Chemical Laboratory, Pune	Trichur
295	Cationic Polyelectrolytes for Fluoride Remediation- An NMR Study	Rachna Maria Kurian	CSIR-National Chemical Laboratory	Pune
297	Synthesis of AgNPs embedded polyphosphazene/Polypyrrole nanocomposites and study of their morpho-mechanical, flame retardant, and conductivity behavior	Nand Kumar	Awadhesh Pratap Singh University	Shahdol
302	Chitosan nanoparticles - dsRNA complex for specific biocontrol of the polyphagous insect pest, Spodoptera litura	Deepali Choudhary	Macs' Agharkar Research Institute	Pune
304	Bioreactor stimulated PCL-dECM based electrospun scaffolds with Umbilical Cord MSCs initiate tenogenesis and reinforce mechanical integrity	Amrutha Datla	Indian Institute of Technology	Hyderabad
305	Innovations in Degradable Polyolefin Packaging: Shaping Sustainable Future	Subhashree Mohanty	CIPET: SARP-LARPM	Bhubaneswar

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306	Synthesis of novel benzodiazepinone derivatives as JAK kinase inhibitors & antiproliferative agents	Bharti Dhawan	Jamia Hamdard	Delhi
307	Advancements in EVA Bitumen packaging	Chinmaya Acharya	CIPET:SARP-LARPM	Bhubaneswar
311	Novel Polyurethane Acrylate Prepolymer Synthesis for Dental Aligner Fabrication via SLA and DLP 3D Printer	Laxmi Priya Swain	Central Institute of Petrochemicals Engineering & Technology	Bhubaneswar
313	Effect of Bivalent Cation Doping on Mesoporous Bioactive Glass: Structural, Morphological and Biological Evaluations	Pragyan Aparajita Dash	SARP: LARPM , CIPET BBSR	Bhubaneswar
316	Rheological Studies to Quantify Inter/Intra Molecular Interactions in Biopolymer Derived Iontropic Hydrogels	Malavika M Narayanan	CSIR National Chemical Laboratory	Pune
317	Bio-based Automobile Base coats derived from Castor oil: Evaluating the impact of Nanoscale reinforcements in coating performance	Debasmita Mohanty	Central Institute of Petrochemicals Engineering & Technology	Bhubaneswar
318	Anthocyanin-Loaded Bacterial Cellulose as pH-Responsive Freshness Indicator For Intelligent Food Packaging	Gouri Lakshmi R Nair	Indian Institute of Technology	Hyderabad
319	Bio-Ferrofluid based on the Microbially Derived Cellulosic Stabilizers	Anjali Vijayan	Indian Institute of Technology	Hyderabad
321	High-performance functional fibers from the Bacterial Cellulose hydrogel	Anurag Kumar	Indian Institute of Technology	Hyderabad
325	Bacterial Cellulose based Carbon as Sulfur host for Metal Sulfur Batteries.	Parnika P	Indian Institute of Technology Hyderabad	Hyderabad
328	Anionic waterborne polyurethane composites using castor oil based polyol and graphene nanoplatelets: Synthesis, characterization, and antibacterial applications	Madhu Matang	The Maharaja Sayajirao University of Baroda	Vadodara

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329	Synthesis & Evaluation of Bacterial Cellulose Membrane for Liquid Filtration	Samuel Kaki	Indian Institute of Technology Hyderabad	Hyderabad
332	Effect of hybrid nanofillers in SPEEK based polymer composite proton exchange membranes for PEMFCs application	Debidutta Das	Ravenshaw University	Cuttack
333	PVDF-HFP based proton-conducting composite polymer electrolyte for next generation electrochemical devices	Asish Kumar Sahu	Ravenshaw University, Cuttack	Cuttack
340	P(NIPAm-Co-AAc)-AEMR integrated PVA hydrogels: Insights into RAFT polymerization, responsive features, and cytotoxicity studies	Parvathy P A	CSIR-NIIST	Thiruvananthapuram
346	Flame retardant polyester by Plasma assisted chemical treatment	Shreyasi Nandy	The Bombay Textile Research Association	Mumbai
349	Microbial exopolysaccharide-based bioactive films and coating infused with <i>Murraya koenigii</i> berries extract for food packaging	Patil Tejaswini Dhanaji	Indian Institute of Technology	Roorkee
350	Utilizing waste Hibiscus flower and guar gum to develop printable edible ink for food safety and sustainable packaging	Samiksha Bisht	Indian Institute of Technology	Roorkee
353	Moisture-activated oxygen scavenger based on Acacia catechu for active food packaging: A plant-based alternative	Prachi Jain	Indian Institute of Technology	Roorkee
362	Effect of Carbon nanotube functionalization on mechanical, tribological, and biological response of ultra-high molecular weight polyethylene-based biocomposites	Pooja Rani	Indian Institute of Technology	Kanpur
364	Pretreatments of Natural Fibers for the Development of Sustainable Biocomposites	Susheel Kalia	Army Cadet College	Dehradun
370	Novel printable thermochromic ink from waste flower anthocyanins for sustainable packaging and security applications	Annu Kumari	Indian Institute of Technology	Roorkee

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373	Antibacterial Alginate Hydrogel-Coated Osteogenic & Angiogenic Bone Cement Beads	Arthi Chandramouli		Kochi
380	Synthesis, Characterization and Biological Importance of Zinc Nanoparticles Using Thermosetting resins	Vipin Khoker	University college of Science, MLS University	Udaipur
381	Effect of h-BN and m-BN on Gas barrier and Weather resistance properties	Rishabh Tiwari	Indian Institute of Technology Delhi	New Delhi
412	Fabrication of antifouling polymer nanocomposite membrane (rGO/ZnO-PVDF) for wastewater treatment	Ankush Agrawal	Malaviya National Institute of Technology	Jaipur
413	ZIF-67@polyvinylidene fluoride mixed matrix membranes towards improved hydrogen separation performance	Ankit Sharma	Malaviya National Institute of Technology	Jaipur
414	Light weight and dimensionally stable high-performance poly(ether-ketone)/ nickel/multiwalled carbon nanotubes hybrids for aerospace applications	Roshan D. Gadve	Malaviya National Institute of Technology	Jaipur
417	Waste to wealth: A green reuse of rice husk ash as reinforcement in epoxy for microwave absorption in X-band	Vaibhav Sanjay Darekar	Malaviya National Institute of Technology	Jaipur
418	High-Performance Pi-Conjugated Polymers for Next-Generation Semiconductor and Energy Device Applications	Tamanna Pradhan	Indian Institute of Technology	Khragpur
420	3D Printing of poly (ether-ketone-ketone) (PEKK)/short carbon fiber (SCF) composites and Their Properties	Sushant Dattatary Sale	Malaviya National Institute of Technology	Jaipur
425	Functionalization of Porous polycaprolactone membrane by radio frequency plasma	Preeti Sharma	Indian Institute of Technology	Roorkee
427	Printable Biosensors Based on Heterostructures of Bio-Waste-Derived Carbon Nanodots and Metal-Organic Frameworks	Disha	Institute of Physical Chemistry Polish Academy of Sciences (IChF), Warsaw	Poland

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428	Assessment of Foaming and Supercritical CO ₂ treatment of PP-TiO ₂ -Graphene Hybrid Nanocomposites for EMI Shielding Applications	Mayank Prakash	Indian Institute of Technology Delhi	New Delhi
430	NIR-responsive Shape Memory Polymer Composite as Self-fitting 4D-printed Bone Tissue Scaffold	Saswat Choudhury	Indian Institute of Science	Bangalore
431	Silver Nanoparticles Supported Silica Nanostructures: Efficient Photocatalyst for Methylene Blue	Pratima Pal	Netaji Subhas University of Technology	New Delhi