

ABS ID	Abstract.Title	Full Name	Institution/Affiliation	City
317	Thermal, structural, and rheological modifications in Recycled Polyethylene Terephthalate for a sustainable alternative source for additive manufacturing	Nikhil Ram Patra	Indian Institute of Technology Roorkee	
322	Molecularly imprinted adsorbents (MIA) for selective recovery of Ellagic acid from Pomegranate peels	Anupama Kumar	Visvesvaraya National Institute of Technology	Nagpur
327	Chitosan and poly-vinyl alcohol (PVA); hybrid backbone grafted with ionic liquid; a cationic hydrogel for toxic removal from wastewater.	Anoop Singh	Indian Institute of Technology, Ropar	
330	Biobased Superabsorbent Foam for hygiene Application	Sukanya Pradhan	SARP-LARPM,CIPET	Bhubaneswar
332	Natural Polymer Based pH and Redox Responsive Microgels for Controlled Agrochemicals Delivery	Ankita Dhiman	Indian Institute of Technology Mandi	
339	Efficient photocatalytic degradation of organic pollutants by nanocomposite of cellulose nanofiber with amino acid functionalized nanohybrid	Aditi Saikia	Institute of Advanced Study in Science and Technology	Guwahati
342	Photocatalytic Degradation of Starch Polymer for Sustainable Textile Desizing	Sanjay Kumar Bhikari Charan Panda	Indian Institute of Technology Delhi	New Delhi
348	Biopolymer nanocomposite film as a smart food packaging material	Sazzadur Rahman	Institute of Advanced Study in Science and Technology	Guwahati
352	Effect of Processing Conditions on Structure Development and Properties of PP-Nylon Blends with and without Compatibilizer	Anagha Khare	MIT-WPU	Pune
354	Biaxial Characterization of Novel Anisotropic Skin Simulants	Arnab Chanda	Indian Institute of Technology Delhi	New Delhi
367	Biogenic Synthesis and Characterization of Zinc Oxide Nanoparticles	Murtuza Zoebbhai Channiwalla	Maharaja Sayajirao University Baroda	Surat
369	Novel treatment strategy utilizing bi-layered scaffold design incorporating bioactive factors for wound healing	Mamatha M Pillai	Indian Institute of Technology Bombay	Mumbai
370	Studies on vapor phase polymerization of pyrrole over polyester fabric for wearable sensors	Ankur Shukla	Indian Institute of Technology Delhi	New Delhi
371	Photo-thermal Actuators Based on Polyaniline Incorporated Liquid Crystal Elastomers	S Umadevi	Alagappa University	Karaikudi
374	Macro-mechanical analysis of unidirectional biocomposites under tensile stress	Parna Nandi	Indian Institute of Technology Delhi	Delhi
382	Enzyme-embedded aliphatic polyesters for accelerated bio(degradation)	Naba Kumar	KTH University	Stockholm
383	Photocurable hydroxyethyl cellulose (HEC) hydrogels	Doli Hazarika	KTH University	Stockholm
386	Modification of Wheat Gluten with Itaconic acid and its potential application as Superabsorbent in Female Sanitary Napkins	Tapaswini Jena	CIPET	Bhubaneswar

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387	Sustainable Solution Processable Benzoxazine-Sulfur Copolymer: Scope for Waste Utilization and Transparent Optics Application	Sangeeta Sahu	Shiv Nadar Institution of Eminence	Uttar Pradesh
397	Self-assembled and self-healable polymers for the self-stratifying coating applications	Diksha Sharma	Indian Institute of Technology Ropar	
399	Studies on electroactive properties of PVDF/PEI blend films for energy harvesting	Sukumar Roy	Indian Institute of Technology Delhi	New Delhi
401	Assessment of Nano-Reinforced Epoxy Coatings for Enhanced Corrosion Inhibition in Reinforcing Bars in Concrete Structures	Rajeev Mehta	Thapar Institute of Engineering and Technology	Patiala
419	Modification of polysaccharides through the Grafting of vinyl monomers with Potassium Bromate/ Thiourea Redox System	Arpit Sand	Manav Rachna University	Faridabad
421	Platelet rich plasma-based tissue engineered construct for articular cartilage defect reconstruction: An in-vitro & in-vivo study to evaluate clinical potential for chondral tissue construct for osteoarthritic knee repair	Bhisham Singh	Manipal School of Life Sciences, Manipal Academy of Higher Education	Manipal
422	Thermosetting Poly(Urethane-Urea) With Simultaneous Self-Healing, Reprocessability and Multiple Shape-Memory Effect	Srikanth Bhaskar Billa	Naval Materials Research laboratory	Bhiwandi
425	Highly efficient photocatalytic degradation of Cationic dye over SrVO <sub>4</sub> under natural solar irradiation for emerging contaminants	Karthiga Rajendran	CPA college Bodinayakanur	Theni
433	Development of Plasticizer Free Acrylic Denture Softliners using Nanogel Additives	Manju Saraswathy	Sree Chitra Tirunal Institute for Medical Sciences and Technology, Trivandrum	
435	Polyolefin/Natural Fibre Composite by High Energy Radiation	Atanu Jha	Bhabha Atomic Research Centre	Navi Mumbai
441	Designing of PANI/VS <sub>2</sub> Composite Materials for Higher Power Density and Energy Density Electrochemical Devices	Saad Zafar	Shiv Nadar University	Gautam Buddh nagar
443	Multiphase gradient self-stratified coating with multi-responsive self-healing polymer	Debaprasad Mandal	Indian Institute of Technology Ropar	
447	Synthesis, characterization and swelling properties of Guggul gum based moisture retaining hydrogels for agricultural applications	Shabnum Saleem	CT University	Srinagar
449	Biodegradation and dye adsorption behavior of novel AG-g-poly(acrylamide) based hydrogels	Kibrya Farooq	CT University Ludhiana	
450	Response surface methodology and optimized synthesis of novel Hing gum-based hydrogel for the efficient removal of cationic dyes	Samiksha Gautam	National Institute of Technology Srinagar	
451	Melt processing of Sawdust reinforced Polylactic acid/Polycaprolactone biocomposites	Manoj Kumar Dhal	Indian Institute of Technology Guwahati	
454	Enhancing mechanical and thermal properties of melt processed starch formulations via temperature optimization	Kshitij Madhu	Indian Institute of Technology Guwahati	
464	Crosslinked polyvinyl alcohol separator for harnessing power from wastewater using Microbial Fuel Cells	Bhanupriya Das	Indian Institute of Technology Guwahati	

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471	Anti-biofilm coatings for central venous catheters using Zinc Oxide Nanoparticles.	Akshit Malhotra	Department of Microbiology	Suryamaninagar
473	To evaluate the Anti-Microbial activity of Synthesized Drug Loaded Keratin Nanoparticles	Himanshi Diwan	National Institute of Technology Jalandhar	
474	Avian eggshell derived hydroxyapatite-based hydrogels for tissue engineering and biomedical applications	Saksham Handa	Dr. B R Ambedkar National Institute of Technology	Jalandhar
494	Design, Synthesis and Study of Mechanical Behavior of Strong, Stretchable and Self-healing Polymer Hydrogel Materials	Rajat Kumar Das	Indian Institute of Technology Kharagpur	Kharagpur
496	Dynamic rheological and dynamic mechanical properties of multiwalled carbon nanotubes reinforced polyamide-6 composites	Sangita Tripathy	CSIR-NPL, New Delhi	
497	Development and characterization of agriculture waste fibre reinforced polymer biocomposite film for active packaging	Vishal Srivastava	Indian Institute of Technology Delhi	New Delhi
502	Iron Carbide (Fe <sub>3</sub> C) Encapsulated into Heteroatom Co-Doped Graphitic Carbon as a Non-precious Metal Catalyst for Electrocatalytic Oxygen Reduction	Aniruddha Jaiswal	Indian Institute of Technology (BHU)	Varanasi
504	To investigate Ordered Structure of Modified Rice Starch using spectroscopic tools: FTIR, XRD, and DSC	Nirmal Mazumder	Manipal Academy of Higher Education	Manipal
509	Sustainable Biodegradable Polymeric Packaging Materials	Vivek Verma	Indian Institute of Technology Kanpur	
513	Agar-based bilayer structure with antioxidant electrospun layer on antibacterial film as a potential wound dressing	Kalpana Rathore	Indian Institute of Technology Kanpur & Lovely Professional University	
514	Developing, Characterizing, and Efficiency Evaluation of Several insitu(nano)Ag/PVA Membranes for Pervaporative Separation of Benzene from Synthetic Pyrolysis Gasoline	Monalisha Samanta	University of Calcutta	
515	Molecular Simulation of PLA/PBAT Blends: Mechanical and Barrier Properties	Kumar Shanu	Indian Institute of Technology Guwahati	
516	MEH-PPV light emitting based polymer synthesis and characterization for bacteria detection applications	Stephen Jose	Central Institute of Petrochemicals Engineering and Technology (CIPET)	Chennai
519	Thermal properties of hexagonal Boron nitride based thermoplastic polyurethane nanocomposites	Rishabh Tiwari	Indian Institute of Technology Delhi	New Delhi
528	Polymer formation with comparative analysis of Metallocene catalyst at varying temperature	Subita Bhagat	SLIET	Sangrur
534	Enhancement in optical properties of PVA films embedded with CdSe nanorods for packaging application	Sangeeta Garg	Dr. B.R. Ambedkar NIT Jalandhar	Punjab
540	All polymer based flexible and stretchable piezoelectric nanogenerators (S-PENG) for wearable energy harvesting	Gurneet Kaur	Indian Institute of Technology Delhi	New Delhi
548	Biomedical Waste-Based Thermoplastic Recycled Blends: Evaluation of Properties and Value-addition	Ashish Raghavan	CIPET: SARP, LARPM	Bhubaneswar

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552	Eco-friendly blowing agent based rigid polyurethane nanocomposite foams: Evaluation of Physico-mechanical Properties	Sakti Ranjan Acharya	SARP-LARPM,CIPET	Bhubaneswar
557	Bio-based Epoxy/Polyurethane/Silica nanocomposite Applicable as Automobile Sealer	Debasmita Mohanty	SARP-LARPM, CIPET	Bhubaneswar
559	Wastewater Treatment by Clay-Polymer Nanocomposites and Clay-Gemini Hybrid Materials	Ajmal Koya Pulikkal	National Institute of Technology Mizoram	Aizawl
577	Fabrication of Zinc oxide nanomaterial coating using sputtering for orthopedic implants to enhance antiadhesive activity	Jyoti Raghuvansh Pandey	BML Munjal University	Haryana
581	Microencapsulation of Moringa oleifera Essential Oil for Antibacterial Properties on Cotton	Rupali Kakaria	National Institute of Fashion Technology	New Delhi
584	Study On Thermal Insulation of Thermal Bonded High Bulk Hollow Fibre Nonwoven Under the Extreme Cold Weather Condition	Vikrant Uday Dupade	Indian Institute of Technology Delhi	New Delhi
586	Development of Surface Functionionalised Carfilzomib Containing Protein Nanoarticles as Biotherapeutics for The Treatment of Ovarian Cancer	Ashaben Mehulkumar Patel	Parul Institute of Pharmacy	Vadodara
587	Electrically conductive composite fibers of nylon6 and nanostructures derived from intrinsically conducting polymers (ICP) for smart textiles	Kiran Rana	Indian Institute of Technology Delhi	New Delhi
588	Pervaporation of acetic acid water solution using ABPBI-based membranes	Saroj Shivram Gawas	CSIR-National Chemical Laboratory	Pune
589	Ion-exchange membranes and a vanadium redox flow battery	Rajaram Nagarale	CSIR-Central Salt and Marine Chemicals Research Institute Bhavnagar	Bhavnagar
601	Morphology and Structural-Property Correlations of a Model Ionomeric Elastomer: Effect of Curing Systems	Prakash Vislavath	Naval Materials Research Laboratory (NMRL) DRDO	Thane
603	Antimicrobial activities, dyeing properties and corrosion inhibition studies of lanthanide(III) complexes of 2-amino-5[(3-carboxyethyl-4,5-dimethylthiophen-2-yl)azo]-4-phenylthiazoles of	Athira Chempakam Janardhanan	MMNSS College, Kottiyam	Kollam
604	Coating of HPMC & Cu-doped ZnO Nanoparticles composite against biofilms formed by clinically relevant bacteria on hernia mesh	Sangita Jana	Tripura University	Tripura India
606	Design and development of outer shell of extreme cold weather jacket	Ranjna Kumari	Indian Institute of Technology Delhi	New Delhi
615	Deciphering the three-dimensional (3D) porous structure of absorptive glass mat (AGM) separators	Siddharth Shukla	Indian institute of Technology	New Delhi
618	In-situ atmospheric pressure plasma synthesis of nanodiamonds for functionalization of poly(ethylene)terephthalate fabrics	Karan Chandrakar	Indian Institute of Technology Delhi	New Delhi
619	Bio-inspired polyethylenimine based benzoxazine designs for their use as structural adhesive.	Pratibha Sharma	Amity Institute of Applied Sciences, Amity University, Noida	Delhi
620	Subtle Features in Lactide Polymerization: Effect of Metal, Ligand(s) and Geometry of Catalyst in PLA Synthesis	Debashis Chakraborty	Indian Institute of Technology Madras	Chennai

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629	Synergistic Effect of Graphene oxide and Graphite with Silica in Natural Rubber Nanocomposites	Jibin K P	Mahatma Gandhi University, Kottayam, Kerala, India	Kottayam
630	Radiation Grafted Functional Adsorbent for Remediation of Toxic Metal Ions	Swarnima Rawat	Bhabha Atomic Research Centre	Mumbai
631	Preparation of Ultra-High Molecular Weight Poly- $\alpha$ -olefins using Novel Ziegler-Natta Catalyst	Nilesh Rajesh Mote	HPCL Green R & D	Bengaluru
632	Insulation systems for keeping cold	Karapet Armenovich Ter-Zakaryan	TEPOFOL LLC	Russia
633	Tailoring surface functionalized polymeric templates for healthcare applications using Plasma and Gamma irradiation techniques	Nilanjal Misra	Bhabha Atomic Research Centre	Mumbai
637	Investigation of dye-doped electrospun polyvinylidene fluoride fiber mats for random lasing application	Nideesh P K	Mahatma Gandhi University	Kottayam
639	Enzyme Responsive Hydrogel Formulation for Sustained Release of Selective MMP-13 Inhibitor to Prevent Cartilage Damage in Osteoarthritis	Himadri Shekhar Roy	Institute of Nano Science and Technology	Chandigarh
640	Synthesis and Application of Nanoemulsion for the development of Multifunctional Textiles	Prachity Shishupal Wankhade	Veer mata Jijabai Technological Institute	Mumbai
642	Investigation of the effect of reflective fabric layer on radiative heat loss from human body in cold weather clothing	Gourav Mishra	Indian Institute of Technology Delhi	New Delhi
646	Copper-substituted polyoxometalate-in-situ decorated sequential interpenetrating polymeric network membranes for effective water decontamination	Ria Sen Gupta	Indian Institute of Science, Bangalore	
660	Delivery of anticancer drugs to the local region of pancreatic tumor through chitosan-PVA composite polymeric implant	Archana Kumari	Indian Institute of Science Bombay	Mumbai
667	Square wave voltammetry analysis for detection of nitrate by using ZnO/PANI composite decorated Ni-foam sensor electrode	Sarla Kashiram Pawar	KBCNMU, Jalgaon	
668	Tribological behaviour of GNP Reinforced Nr Composite	Resmi B.P	Amal Jyothi College of Engineering, TKM Institute of Technology, Kerala Technological University	Kollam
671	Investigating consolidation quality of Kevlar <sup>®</sup> /PP thermoplastic composites made through different towpregs techniques	Ganesh Jogur	Indian Institute of Technology Delhi	New Delhi
678	Multifunctional Properties of PVDF/GO Nanocomposites film for Defence Application	Shikha Chouhan	Indian Institute of Technology Delhi	New Delhi
685	Preparation of Solution blown PVDF for energy Harvesting	Srishti Bajpai	Indian Institute of Technology Delhi	New Delhi
687	N95 filter media performance enhancement using fine coating of PVDF nanofibres	Bhavesh Thakur	Indian Institute of Technology Delhi	New Delhi
696	Dual technology Oral Fast Dissolving Films for Controlled Levodopa Therapy in Dysphagic Parkinson's Patients	Anoop Narayanan	NGSM Institute of Pharmaceutical Sciences, (NGSMIPS), Nitte Deemed to be University, Mangalore	

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699	Epidermal inspired Flexible Sensor with Buckypaper/PDMS Interfaces	Prakash Chandra	Institute of Basic Science, Bundelkhand University, Jhansi	
700	Poly(aminoamide)s: A Class of Smart Functional Polymers for Diverse Applications	Subrata Chattopadhyay	Macromolecular Chemistry and Engineering Research (MCER) Group, Indian Institute of Technology Patna	
701	Waste Plastics to bricks	Vinod Kumar	Hindustan Petroleum Green R&D Centre	
704	Biogenic Synthesis of Sulphur Nanoparticles Using Ocimum canum leaves for Antimicrobial Application towards Gram positive and Gram negative Pathogens	Giriraj Tailor	Mewar University Chittorgarh	
707	Electrospun Membrane: A multifunctional and efficient platform in water remediation	Jaspreet Kaur Randhawa	School of Engineering, Indian Institute of Technology, Mandi, H.P.	
709	Synthesis and thermal evaluation of novel hydrazide-substituted phthalonitrile resins for high temperature applications	Jeetendra Kumar Banshiwal	Defence materials and stores research and development establishment (DMSRDE)	Kanpur
712	Polymer Membrane Fuel Cells: Ab Initio Quantum Chemical and Density Functional Theory Perspective	Anant D. Kulkarni	S K. Somaiya College, Somaiya Vidyavihar University, Vidyavihar, Mumbai	
713	Experimental investigations on micro-hole dental drilling of Perspex crown	Nitin Kumar Lautre	Visvesvaraya National Institute of Technology (VNIT), Nagpur	
715	PCR Purification using Digital Microfluidics	Neeti Kalyani	Technical University of Denmark, Kongens Lyngby, Denmark	
718	ZIF-8 and ZIF-67 functionalized cotton Textiles for Air Purification applications	Hardeep Singh	Indian Institute of Technology, Delhi Hauz Khas, New Delhi	
725	Design and development of a fluoro carbon coated acquisition cum barrier layer for incontinence application	Rupali		
754	Cuticle-inspired hyperbranched polyesters for sustainable materials	Veerababu Poliseti	KTH Royal Institute of Technology	Stockholm
756	Development of nanofibrous polymeric scaffolds for corneal tissue engineering by electrospinning method	Soumya Shuvra Smita	National Institute of Technology Rourkela	Odisha
766	Silk Nanodisc: A Nano-biopolymeric Material for Edible Food Packaging Application	Tabli Ghosh	Tezpur University	Assam
770	Exploration of supercritical CO <sub>2</sub> as an eco-friendly blowing agent for preparation of microcellular natural rubber foam	Wasan Tessianan	Mahidol University	Bangkok
772	Biosynthesis of multi metallic nanoconjugates using Elaeocarpus granitrus and their biomedical applications	Milind Sagar	Shobhit Institute of Engineering & Technology	Meerut
774	VOC and Odor reduction in polymeric materials used in packaging and automotive applications	Sampat Singh Bhati	Indian Institute of Technology Roorkee	Saharanpur