Polymer Processing Society Asia-Australasia Regional Conference, PPS – 2023

Hotel Uday Samudra, Kovalam, Kerala

29th November – 2nd December 2023

LIST OF PARTICIPANTS WITH SUBMITTED ABSTRACT

S.No	ID	Name and Affiliation	Title
1.	5	Dr. Rajesh Kumar Sharma Kanazawa University	Separation of glass and epoxy interface for material recycle by physical foaming technology
2.	6	Arshad Rahman Parathodika IIT Kharagpur	Temperature Scanning Stress Relaxation Study on Carbon Black Filled EPDM Elastomer Composites: Impact of Molecular and Crosslink Network Structure
3.	7	Prof. Dimitrios N. Bikiaris Aristotle University of Thessaloniki, Greece	Effect of Monomer Type on the Synthesis and Properties of Poly (Ethylene Furanoate)
4.	8	Dr. Prasun Mukherjee University of Calcutta	Optimization of Photoluminescence Properties in Terbium and Europium Co-doped Inorganic Nanoparticles
5.	10	Johan Stanley Samuel Aristotle University of Thessaloniki, Greece	Synthesis of poly(ethylene 2,5-furan dicarboxylate) based nanocomposites by in-situ polymerization technique for food packaging applications
6.	14	Dr. Susmita Dey Sadhu Bhaskaracharya College of Applied Sciences, New Delhi	Preparation and characterization of NBR based composite of Polythiophene and Modified Carbon Black
7.	18	Prof. Sadhan C. Jana University of Akron, USA	Polymer Processing at Several Length Scales To Support Sustainability Research
8.	22	Prof. Kentaro Taki Kanazawa University, Kanazawa, Japan	Development of sensing simulation and data analysis technology for the digital-twin of twin-screw extruder
9.	23	Amit Malakar IISc, Bangalore	Using di-diol complexation, a double cross-linked interpenetrating network inspired by mussels, with unique mechanical properties
10.	24	Priya E IIT Roorkee	Waste-derived biodegradable polymeric fertilizer(BPF) is used to recycle phosphate from treated wastewater into plant growth
11.	26	Purbasha Maji IIT Kharagpur	Investigation of shape memory behaviour and mechanical performance of nanofibrillated cellulose-maleated SEBS composites
12.	28	Dr. Dimitra A. Lambropoulou Aristotle University of Thessaloniki, Greece	Study on Effect of Monomers Towards High Molecular Weight Bio-Based Poly(ethylene Furanoate) via Solid State Polymerization Technique

13.	29	Pradeepa K G Sri Jayachamarajendra College of Engineering Mysore	Preparation and characterization of polyvinyl alcohol film reinforced with cellulose isolated from coconut shell powder
14.	30	Prof. Archana Samanta IIT Delhi	Transparent cellulose composites – applications and way forward
15.	31	Kunal Manna IISc, Bangalore	Does the varying reactivity in the transient polymer network through dynamic exchange regulate the closed-loop circularity in polyolefin Vitrimers?
16.	33	Dr. Sanjay Pal Wetsus, The Netherlands	Polyhydroxyalkanoate (PHA) production and application: Driving a path to supply sustainable alternatives to traditional thermoplastics
17.	34	Dr. P. Kumar IISER, Bhopal	Sulfonated PVA/MoS2-based Composite Proton Exchange Membranes with Higher Selectivity
18.	35	Dr. Abhijit Dan Maulana Abul Kalam Azad University of Technology, Kolkata	Stimuli-responsive Hybrid Microgels with Embedded Carbon Dots as Fluorescence Turn-on Biosensors for Ultra-Sensitive Detection of Proteins
19.	36	Prof. G. Pircheraghi Sharif University of Technology, Iran	Degradation of Polypropylene Random Copolymer in Aqueous Solution of Chlorine Dioxide: Effect of Crystalline Structure and Morphology
20.	37	R. S. Lodhi IISER, Bhopal	Bioinspired Mechanically Robust Nanocomposites of Sodium Carboxymethylcellulose and Polydopamine-modified Cellulose Nanocrystals for UV-Protective Packaging
21.	38	Dr. Neetika Singh IISc, Bangalore	Ultrasound-assisted Polymerization of Tetraphenylethene-based Conjugated Polymers with Enhanced Singlet Oxygen Generation Characteristics and Anticancer Activity
22.	39	Athira John University of Maribor, Slovenia	Utilizing Coffee Waste Extracts to Enhance Antioxidant and Antibacterial Properties of PLA: A Comparative Study of In-situ Addition and Coating Technique
23.	40	Dr. Sandeep Kumar Singh IISc, Bangalore	Microwave-assisted growth of ZnO on carbon urchin with improved electromagnetic shielding efficiency
24.	42	Daan Kaur Delhi Technological University, New Delhi	Blends of Poly-hydroxybutyrate and Polypyrrole: Thermal, Structural, Mechanical, and Electrical properties
25.	43	Ms. Bhavya Parameswaran IIT Kharagpur	Vitrimer-like Composite based on Epoxy Functionalized Elastomer using dynamic network

26.	44	Mr. Ritwik Kumar IIT Delhi	Nano-emulsion drug transport through biodegradable polymer based Microneedle, parameter estimation aspects
27.	45	Mr. Yashwant IIT Delhi	Silane-Modified Silica Surface for Acetylcholine Detection via Quartz Crystal Microbalance Technique
28.	46	Nitin Kumar IIT Delhi	Raspberry silica nanoparticles shear thickening fluids for body armor applications
29.	47	Mrs. Jasomati Nayak IIT Kharagpur	A Lightweight, Efficient Thermal Management, Microcellular Conductive Carbon Black/ EOC Composite Foam for EMI Shielding Application
30.	48	Deepak Poddar IIT Delhi	Shellac/ZIF67 based Intelligent active and high barrier films for monitoring seafood freshness
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32.	50	Jeevanandham N IIT Kharagpur	A unique approach to enhance the silanziation efficiency of the PCR tire tread compound via processing and compounding
33.	51	Lekshmi Ajith Kumar Apollo Tyres, Chennai	Challenges in the Processing of Silica Based New Generation PCR Tread Compounds
34.	52	Mr. Ankur Katheria IIT Kharagpur	Super-Stretchable, Self-Healing 2D MXene-Based Composites for Thermal Management and Electromagnetic Shielding Applications
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37.	57	S. K. Asha NCL, Pune, India	Photocrosslinkable Resin Formulations for Light based 3D Printing Application
38.	58	S. Yao Fukuoka University, Japan	Introduction of Japanese NEDO project and Revolutionary Mechanical Recycle Process
39.	59	Mr. Prem Pal Sing IIT Kharagpur	Hydro-tunable CZTO/SWCNT/PVA/PDMS hybrid composites for smart green EMI shielding
40.	60	H. Haridas Queen's University, Canada	Functional thermoplastic-based composites containing modified graphene nanoplatelets
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44.	65	Ms. Pratiksha Awasthi IIT Delhi	Designing of 3D Printable Stimuli-Responsive Mechano-Adaptive Thermoplastic Elastomeric Materials for Smart Sealing Applications
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51.	72	Mr. Manoj Sathwane IIT Roorkee	Nanocellulose coherent inorganic filler based hybrid nanocomposites for enhancing thermal energy transport
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54.	76	Ms. N S Akhila CSIR, Thiruvananthapuram	Temperature-Induced Structural Changes in Poly(3- hydroxybutyric acid) Aerogels
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56.	79	Prof. Toshihisa Kajiwara Kyushu University, Japan	Study on Melt Mixing of Polymeric materials in a Counter-Rotating Continuous Mixer Using Partially Filled Flow Simulation

57.	80	Dr. Mohammed Althaf Hussain Fukuoka University, Japan	Enhancing Plastic Recycling Approaches: Insights from Non-Equilibrium Molecular Dynamics Simulations
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59.	82	Dr. Jesna Ashraf The University of Auckland, New Zealand	In-situ plasma treatment for reactive compatibilization of recyclable polymer blends
60.	83	Dr. Anusuya Choudhury Gujarat Flurochemical Ltd., Gujarat	High performance Fluroelastomer - FKM- and it's Special Applications
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62.	85	Prof. Takushi Saito Tokyo Institute of Technology, Japan	Measurement of Interfacial Thermal Resistance of Layered Heterogeneous Polymers obtained by Rotating Parallel Discs
63.	86	Ms. Trisita Ghosh IIT Kharagpur	Nitrogen and Sulphur Doped Carbon Dot: an Excellent Biocompatible Candidate for In-vitro Cancer Cell Imaging and Beyond
64.	87	Mr. Animesh Gopal NCL, Pune	Microstructure and Mechanical Properties of Recycled Polyolefin Blends for Additive Manufacturing
65.	88	Ms. Ashitha George CSIR, Thiruvananthapuram	Directional Freezing Assisted Oriented Nylon 11 Aerogels: Structure and Piezoelectric Properties
66.	89	Nikolaos D. Bikiaris Aristotle University of Thessaloniki, Greece	Investigation of microfluidic process parameters: Tailoring the properties of PLA-PEG-PLA triblock copolymer microparticles
67.	90	Prof. D.R. D'hoog Ghent University, Belgium	Monte Carlo tools for next-generation polymer recycling and design
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69.	92	Ms. S. Deepa Netaji Subhas University of Technology, New Delhi	Synthesis of flexible and biocompatible sensor using functionalized nanocellulose dispersant for in-situ polymerization of PEDOT
70.	93	Mr. Samrat Netaji Subhas University of Technology, New Delhi	Solubility and dispersibility enhancement of PEDOT: PSS via a change in solvent and oxidizing agents
71.	94	Mr. Usama Ansari Netaji Subhas University of Technology, New Delhi	Metal-Doped MoSe2: A Gateway to Efficient Solar-Driven Photocatalysis
72.	95	Mr. Shivam Kashyap Netaji Subhas University of Technology, New Delhi	Unveiling the Synergistic Potential of MoSe2-PEDOT Nanocomposite for Ultra-Sensitive Electrochemical Detection of Metal Ions and harmful pollutants
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			Polyamide Nanocomposites with Graphene-Based Hybrid Flame Retardant
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76.	99	Mrs. A. Poulose CUSAT, Cochin	Extraction of nanocellulose from verrhoa carambola Pomace by mild organic acid hydrolysis and fabrication of hydrophobic cellulose nano paper for sustainable Packaging applications
77.	100	Mrs. Bhavna Sharma IIT Roorkee	Synthesis of waterborne acrylic copolymer resin as a binding agent for the development of water-based inks in the printing application
78.	101	Dr. Harshawardhan Pol NCL, Pune, India	Influence of Melt Blending on Controlling of Material & Process Defects in Polyolefin Melt Processing
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84.	109	Ms.Shakshi Bhardwaj IIT Roorkee	Thermally Insulating, lightweight, and highly flexible cellulose nanofiber-based aerogels for advanced applications
85.	110	Mr. Shiva Singh IIT Roorkee	Investigation into the anti-counterfeiting properties of carbon quantum dot-doped cellulose nanocrystals and their prospective applications
86.	111	Mr. Dakuri Ramakanth IIT Roorkee	Per sulfate, initiated-Emulsion polymerized Polymyrcene as an Oxygen Scavenger for Active Packaging Applications
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92.	120	Mr. Deepak Kumar Verma Netaji Subhas University of Technology, New Delhi	Zinc oxide assisted homogenously monodispersed MoSe2 as highly efficient electrocatalyst for DSSC
93.	121	Ms.Krishna Priyadarshini Das IIT Delhi	Designing smart and sustainable biochar/PLA based porous electrospun fibrous constructs for controlled-release fertilizer systems
94.	122	Dr. Pooja Chauhan IIT Delhi	Development of Coconut Carbon Dots, their Biological Activities and Sensing Ability Towards Tyrosine
95.	123	Prof. Ashok Kumar Dasmahapatra IIT Guwahati	Conducting Polymer Nanocomposites for Energy Harvesting Applications
96.	124	Ms. V. Bijalwan University of Petroleum & Energy Studies, Dehradun	3D- Printing of Biobased Acrylate Photoresins consisting of Covalent Adaptable Networks
97.	126	T. U. Patro DIAT, Pune	Porous polymer nanocomposites for multifaceted water treatment
98.	127	Mr. Keshav Dev IIT Roorkee	Schiff base based Cellulose sensors for metal ions detection
99.	128	A B Hemavathi Sri Jayachamarajendra College of Engineering, Mysore	Preparation and Characterization of PVA/k-Carrageenan Based Eco-friendly Food Packaging Film
100.	129	Mr. Nishank Verma IIT Kharagpur	Rheological properties of the vetiver fiber-reinforced Thermoplastic polyurethane
101.	130	Dr. Chhavi Verma IIT Roorkee	Cellulose Nanocrystals based Structural Colour Pigments from Waste Bio-mass
102.	131	Rizos Bikiaris, Aristotle University of Thessaloniki, Greece	Haemostatic Dressings based on Chitosan Loaded With Poly(Butylene Succinate) Nanoparticles And Heparin With Improved Antibacterial Activity
103.	133	Dr. Jinu Jacob George, Cochin University, Kerala	Nanocellulose Based Aerogels for Technological Applications
104.	134	Prof. Santanu Kundu Mississippi State University, USA	Processing and Characterization of Conjugated Polymers using Electrospinning Techniques for Optoelectronic Applications
105.	135	M. Walluch Anton Paar GmbH, Austria	DMA in Tension of Elastomers: Material Selection and Quality Control
106.	137	Prof. Prasanna Kumar S. Mural IIT Bombay	Exploring the polymer nanocomposites for nanogenerator application
107.	139	Mr. Chitransh Upreti ICT Mumbai	Development of a Perchlorate based High Potential Window Gel Polymer Electrolyte for Supercapacitor Applications

108.	140	Mr. Prasanjit Kumar Dey IIT Bombay	Flexible Triboelectric Nanogenerator Based on Li-salt of Adipic Acid Modified Poly(vinyl alcohol) Nanocomposite Films
109.	141	Prof. Bijay Prakash Tripathy IIT Delhi	Nanostructured responsive microgel membranes for separation and biochemical applications
110.	143	Ananya Aishwarya IIT Bombay, Mumbai	Crystalline Structure, Dielectric, Ferroelectric and Piezoelectric Properties of Lithium Salt of 6-Amino Hexanoic Acid Incorporated Poly(vinylidene fluoride) Nanocomposites
111.	145	Mr. Vaishak Nambiathodi Rubber Research Institute of India	Effect of Latex Reclaim on Tread Rubber Vulcanizate
112.	146	Mr. Aaditya Pandey IIT Roorkee	Forward Osmosis Process Concentration of Coconut Water using Polymeric Membrane: Membrane Fouling Behavior Phenomenon and Impact on Shelf Life
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117.	151	Mr. D. Upreti Defence Institute of Advanced Technology, Pune	Laponite-Graphene Oxide hybrid filled thermoplastic polyurethane porous membranes for water remediation
118.	152	A. Avhad SABIC, India	Flame Retardant Polypropylene Composites for EV Batteries
119.	153	Soma Guhathakurta SABIC, India	Novel High Performing Polyolefin based Piezocomposites for Niche and Emerging Market
120.	154	Mrs. Malavika Mohan M A Mahatma Gandhi University Kottayam	Mechanical and Barrier Properties of Bio degradable Film Prepared from Guar Gum Maleate
121.	155	Mr. Mayank Prakash IIT Delhi	Rheology-Cell morphology correlation for Oriented Foams of PP/TiO2/Graphene hybrid Nanocomposites for enhanced EMI Shielding Effectiveness
122.	156	Mr. Ashis Ghosh IIT Kharagpur	Dynamic metal-coordinated and hydrophobically associated mechanically robust, self-healable solid electrolyte for flexible super capacitor applications

123.	157	Ms. Sangita Pandit IIT Kharagpur	Freeze-thaw induced, metal-co-ordinated, mechanically robust hydrogel as an effective solid electrolyte for supercapacitor application
124.	158	Mondli Abednicko Masanabo CSIR, South Africa	Properties of cowpea lignocellulosic sidestream reinforced Poly (butylene succinate-co-adipate)/ Poly (hydroxy butyrate-co-valerate) bio-composites for packaging materials
125.	159	M. P. Chandresh Sri Jayachamarajendra College of Engineering	SAN/LIR dynamic vulcanization: new approach in TPV development using liquid rubber for impact modification
126.	160	Sreekala M. S Mahatma Gandhi University, Kerala	Properties of bio nanocomposites - Starch a potential replacement for synthetic polymer
127.	161	J. Rai RIL, Mumbai	Blends of Polybutyl Acrylate with PVC Through Reactive Polymerization
128.	162	Dr. Kunal Manna IISc, Bangalore	Molecular metal oxide clusters soldered interpenetrating polymer network 'hosts' carbon nanotube 'guest' for green millimeter wave absorption
129.	163	P. Arul Murugan IIT Bombay	Pelvic floor meshes for the treatment of prolapse in menopausal women
130.	164	Mr. A. Jana IIT Guwahati	A Novel Processing Technique of Medical Grade Ultra-High Molecular Weight Polyethylene to Obtain Enhanced Characteristics
131.	165	Mr. A. Basumatary IIT Guwahati	Influence of isostatic and uniaxial compaction technique on mechanical properties of ultra-high molecular weight polyethylene for bio-medical implants
132.	166	Mr. Kuldip Singh IIT Delhi	Ohmic heating properties of metalized fabric, activated carbon fabrics and their layered structure
133.	167	Adarsh S. Bhatt RIL, Mumbai	In-Situ Polypropylene Nanocomposites Formation Using Clay-Supported Ziegler-Natta Catalysts
134.	168	Ms. Shivani Sharma Netaji Subhas University of Technology, New Delhi	Comparative study of the dye degradation: Free Vanadium oxide and its porous PLA encapsulated microparticles
135.	169	Mr. Sudhir Kumar IIT Kharagpur	Transition Metal Doped Polyaniline/Graphene Oxide for Energy Storage Application
136.	170	Ms. Priya Goyal Netaji Subhas University of Technology, New Delhi	UiO-66/ chitosan doped polysulfone membrane for dye removal and oil water separation
137.	172	Mr. H. Sharma IIT Roorkee	Vapor Phase Antimicrobial Active Packaging Application of Essential Oil for the Preservation of food materials

138.	173	Dr. Petra Potschke IPF, Dresden, Germany	Poly(vinylidene fluoride) / poly(butylene succinate) / carbon nanotube blend composites for strain sensing applications
139.	174	Prof. Yogesh M. Joshi IIT Kanpur	Rheological Behavior of Aqueous Poly(vinyl alcohol) Solution during a Freeze–Thaw Gelation Process
140.	175	Dr. Ketaki Samanta IISc Bangalore	Sustainable Bioplastic from Potato Starch: Recyclability through Vitrimer Chemistry
141.	177	Mr. C. M. Sharath CIPET, Chennai	Effectiveness of Hybrid Taguchi and ANN Method in Reducing Residual Stresses and Warpage in Thick Transparent PMMA Parts
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143.	179	Mr. Stephen Jose CIPET, Chennai	Synthesis and Characterization of MEH-PPV Polymer Nanocomposite for Biosensing Application
144.	180	Mr. A. Jamin Raja CIPET, Chennai	Key Issues in the Design of Floating Photovoltaic Structures at High Altitude Location
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146.	183	Mr. Vikash Kumar IIT Bombay	Fe_3O_4/MWCNTs-COOH blended with Psf hollow fiber membrane for heavy metals removal from lab and lake water
147.	184	Ms. Madhuparna Ray IIT Roorkee	In situ Polymerization mediated crosslinking of Metal Organic Framework using poly (1-vinylimidazole) as Superior Proton Conductive fillers in Sulfonated poly (ether ether ketone) Membrane for Fuel Cells
148.	185	Ms. Shireen Kekare IIT Delhi	To study how negative charge enhances CYTOP polymer electret properties For Energy harvesting
149.	186	Mr. Nilesh R Bhoi IIT Bombay	Customized biodegradable 3D-printed bone grafts with biomimetic porosity
150.	187	Mr. M. Mulugeta IIT Mandi	Development of Bismuth oxyhalides as Heterogeneous Catalysts for the Glycolysis of Polyethylene terephthalate Using Response Surface Methodology
151.	188	Mr. Swadhin Kumar Jena IIT Mandi	Mechanically grinded Covalent Organic Framework as Efficient Photocatalyst for Reduction of Hexavalent Chromium and Fenton reaction under visible light
152.	189	Dr. Vishnuvarthanan Mayakrishnan IIT Delhi	Preparation, Characterisation, Foamability and Rheological Threshold of Recycled Low-Density Polyethylene (R-LDPE) / Carbon nanotube (CNT) nanocomposite fiber
153.	190	Bhavesh Thakur IIT Delhi	From Waste Polyester Bottle to Ultrafine Nanofibers: A Sustainable Approach for High-Efficiency Face Masks

154.	191	Prof. Abhinendra Singh Case Western University, USA	Modeling the effect of non-absorbing polymer on the rheology of dense suspension
155.	192	B. Rana IIT Delhi	Antibacterial And UV Protection Performance of Zinc Stannate Based TPU Nanocomposites
156.	193	Dr. Amrita Sikder University of Cambridge, UK	Designing Next-Generation Local Drug Delivery Vehicles for Glioblastoma
157.	194	Ms. Nidhi Pandey IIT Bombay	Low-cost, Made-in-India Hollow fiber membranes (HFMs) for Hemodialysis Application
158.	195	Mr. T. Ambardar Pluss Advanced Technologies Ltd., India	Investigating the Viability of Solution Casting Technique to Fabricate Shape Stabilized Phase Change Materials
159.	196	Jonathan Tersur Orasugh CSIR, South Africa	PET/HDPE/clay@GQDs hybrids: performance properties and possible applications
160.	197	Mr. J. D. Mohanty IICT, Mumbai	The Intricacy of Polyhydroxyalkonate for Melt Processing and its Process Intensification
161.	198	Dr. Ines Kuehnert IPF, Dresden, Germany	Material qualification and multi material combinations in additive manufacturing
162.	199	Dr. Ines Kuehnert IPF, Dresden, Germany	Individualised functional products through technology fusion
163.	200	A. Verma IIT RoorkEe	Utilizing Electrospinning to Create Nanofibrillated Polymeric Composite Membranes for Ambient Air Particulate Matter Elimination
164.	201	Ms. Srishti Bajpai IIT Delhi	Exploring Solution Blowing Technique for High-Performance Nanogenerator Fibers: Submicrometric Diameter and Enhanced Piezoelectric Properties
165.	202	Shuchita Tomar IIT Delhi	Investigating the effect of Modified Nanoceria along with UV-Additives for Improving The UV-Resistant Properties of TPU Nanocomposite Films
166.	204	Vikas Verma IIT Delhi	Optimizing Stuffer-to-Binder Ratio for Enhanced Mechanical Properties in 3D Orthogonal and Angle Interlock Fabric Composites
167.	205	S. Mireja IIT Bombay	High β-phase PVDF films by uniaxial compression
168.	206	Mrs. Madhulika Narayan IIT Bombay	Resorbable Bone Pin for Reduction of Fractures
169.	208	Mr. A. Jamin Raja CIPET, Chennai	Design and Development of Lightweight Honeycomb Panel Using Fiber-Reinforced Polymer for EV Vehicle

170.	209	M. Tiwari IIT Delhi	Investigating the role of linseed oil PLA/Jute fiber bio composite for packaging application
171.	210	Ms. Kiran Rana IIT Delhi	Electrically conductive composite fibers of Polyamide and Poly(pyrrole) for smart textiles
172.	211	Dr. Jesna Ashraf The University of Auckland, New Zealand	Parametric Study: Effect of Plasma Operational Parameters on the Bulk Modification of Polypropylene
173.	213	Ms.Niranjana Sreelal Cochin University of Technology, Cochin	Fabrication and Electromagnetic Interference Shielding Performance of Phthalonitrile Infused Carbon Foam Systems
174.	214	Prof. Sven WieÃŸner Dresden, Germany	Liquid Rubber based Dielectric Elastomers & evaluation of their electromechanical actuation capabilities
175.	216	Ms. Shruti Iyer IIT Bombay	Bone adhesives for fracture repair
176.	218	Ms.Komal A. Joshi IIT Bombay	Designing of Biodegradable Alternatives to Suture Tapes used in Ligament/Tendon Reconstruction Surgeries
177.	219	Dr. Amit Das Lebniz Institute, Germany	Balancing Strength and Flexibility: Robust yet Reversible Crosslinking in Epoxidized Natural Rubber
178.	220	Dr. Samir H. Chikkali NCL, Pune	Palladium-catalyzed Synthesis of Hyperbranched Ethylene Oligomers and Their Application
179.	221	Prof. Pralay Maiti IIT BHU	Sustainability in Energy Sectors Using Polymers
180.	222	Prof. Susanta Banerjee IIT Kharagpur	All-Solid Polyelectrolyte Membranes for Fuel Cell Application
181.	223	Ms. Puchalapalli Saveri IIT Madras	Non-Linear rheology - analysis of microstructural changes using Sequence of Physical Processes (SPP) for different material systems
182.	224	Ms. Krithika Bhaskaran IIT Madras	Pectin based Edible films – Processibility and rheological correlation
183.	225	Ms. Moumita Sasmal IIT Madras	Comparative analysis of the rheological behaviour of native and reconstituted Aloe vera gel for biomedical applications
184.	226	Dr. Jagadeshvaran P L IIT Madras	Rheological studies on the 3-D printability of Pectin-based systems
185.	227	Ms.Mandira Mondal IIT Delhi	Synergetic multifunctional properties of sericin nanoparticles
186.	228	Dr. Rahul Shingte Solvay Speciality Polymers, Vadodara, India	Sustainable Solutions for High Performance Polymers
187.	229	Dr. Dibyendu S. Bag DMSRDE, Kanpur, India	Advanced Polymers and Composites for Aerospace and Defence Applications
188.	230	Dr. Ashvini Shete Praj Industries	Crafting Cost-Effective Polyhydroxyalkanoates
189.	231	Dr. Paramita Das IISER Bhopal	Mechanically Robust and Multifunctional Bioinspired Ternary Nanocomposites

190.	232	Jeetendra Kumar Banshiwal Defence Materials and Stores Research and Development Establishment	Synthesis and thermal analysis of novel carboxylic acid functionalized self-curing phthalonitrile resin for aerospace applications
191.	233	Prof. Sampa Saha IIT Delhi	Polymer brush coating on biodegradable polymeric surface
192.	234	Ms. Lisha Awasthi IIT Bombay	Thermoresponsive Local Drug Release System in Endometriosis
193.	235	Prof. Tushar Jana University of Hyderabad	Mixed Matrix Ion Exchange Membranes for Hydrogen Energy
194.	236	Prof. Rabibrata Mukherjee IIT Kharagpur	Influence of Nano Particles on Stability and Phase separation in Polymer Thin films
195.	238	Mr. Hussein Aldulaimi Sharif University of Technology, Iran	Synthesis of nanoplatelets BaTio3 and its usage in PVDF/BaTiO3 nanocomposite for piezoelectric properties
196.	239	Mr. Govind Kumar Sharma IIST Trivandrum	Flexible Nb_2O_5 Nanoparticle incorporated N-doped Carbon Nanofiber and its PDMS Composite for EMI Shielding
197.	240	Dr. Ramesh Babu Trinity College, Dublin, Ireland	Circular Plastics: Upscaling the mixed plastic waste to biodegradable plastics
198.	241	Ms. Raji. S IIST	Upscaling of used cotton cloth to robust carbon grids with excellent EMI shielding properties
199.	242	Prof. Sabu Thomas MG University	Circular Economy: New Opportunities in Sustainable Nano Materials and Polymer Bio nanocomposites
200.	243	Prof. Abhijit P Deshpande IIT Madras	Thixotropy and its role in processing of polymeric materials – promise for 3D printing
201.	244	Mr. Bhasha Sathyan IIST	Corona discharge-assisted synthesis of fluorescent MoS_2 nanosheet for turn-on sensing of lead (II) ions
202.	248	Ms. Sasila C IIST	Flexible and Mechanically Strong Polyimide Aerogels using Amino Crosslinkers
203.	249	Mr. Aby Alex IIT Kharagpur	Sulfur-rich block copolymers based on myrcene via Inverse Vulcanization; A potential new class of sustainable material
204.	250	Mrs. Dhrishya V IIST	Carbon Derived from Waste Plastic Combined with MoS_2 for Supercapacitors- A Waste to Wealth Approach
205.	251	Mrs. Chitra K R IIST	Plasma modified ZIF-8 incorporated PVDF membrane for efficient removal of antibiotics from water
206.	252	Mr. Jithu Joseph IIST	Redox-polymer gel electrolytes for Zinc-ion storage applications
207.	255	Ms. Bilga Bhuvan IIST	Alginate Hydrogel loaded with Hemigraphis colorata Extract as Bionk for 3D Printing of Wound Healing Patches

208.	256	Ms. Ann Mary Tomy IIST Trivandrum	Dodecanethiol-protected nickel clusters for electrochemical detection of Hg2+ and Cd2+ ions
209.	257	Ms. Chithra R Nair IIST	Design And Development of Poly(amidoamine) Dendrimer-Heterocycle Conjugates as Nanotheranostics
210.	258	Prof. Johan Verbeek University of Auckland	Polymer Processing at Several Length Scales to Support Sustainability Research
211.	260	Prof. M. Jayakannan IISER Pune	Biodegradable Polymers in Cancer Research
212.	261	Prof (Dr.) Santanu Chattopadhyay IIT Kharagpur	CFD modeling to optimize the die design for rubber profiles
213.	262	Prof. Jean-Michel Guenet Université de Strasbourg, France	Imparting Functional Properties to Common Polymers by Means of Self-Assembled Systems
214.	263	Prof. Mithun Chowdhury IIT Bombay	Plasticization and antiplasticization in confined polystyrenic films from the perspective of nonequlibrated polymer chain conformations
215.	264	Dr. Virendra Kumar Gupta Reliance	Sustainable Polymers and Composites Technology: Development for Energy Transition & Circular Economy
216.	265	Ms. Shruti Mali IIT Bombay	Novel Biomaterial for Bone-Soft Tissue Fixation
217.	266	Ms. Shruti Mali IIT Bombay	Injection Molding Reinvented: Unlocking Potential with Water-Assisted Foaming
218.	267	Sai Krishna Koushik Polamarasetty Satish Dhawan Space Centre, Andhra Pradesh	Insulation Loose flap bulge correlation with Propellant level fall for Upper stage Solid Rocket Motors
219.	268	Mr. Abjesh Prasad Rath South Africa	Thermal Properties of Polycaprolactone Hybrid nanocomposites
220.	259	Ms. Rhiya Paul IIST	Bio derived Epoxy vitrimers from Gallic acid ad Isosorbide based epoxy resins
221.	269	Dr. Sambit Ray IIT Bombay	Class-C Medical Device loaded with antibiotics as Bone void filler for Osteomyelitis
222.	270	Mrs. Najiya KPP University of Kerala	Engineering 2D Heterostructures for High-Performance Optoelectronic Devices
223.	271	Mrs. Sithara Radhakrishnan CUSAT, Kochi	Borophene Incorporated PDMS Film: A Prospective Tribonegative layer in Wearable Self-powered Devices
224.	272	Dr. Sherin Joseph CUSAT, Kochi	Electrospun Polycaprolactone (PCL)/Chitosan nanofiber blends for food packaging applications
225.	273	Dr. Honey John CUSAT, Kerala	Polymer based Triboelectric Nanogenerators and their Diverse Applications in Energy Harvesting, Sensing and healthcare
226.	274	Dr. Jitha S Jayan Amrita Vishwa Vidyapeetham, Amritapuri	Polymer Grafted Nanohybrids for Epoxy Toughening Applications

227.	275	Dr. Srikanth Pilla University of Delaware, USA	Pushing Boundaries with Advanced Composites: The Evolution of Ultra-lightweight Carbon Fiber Reinforced Thermoplastic Doors
228.	276	Dr. Jelmy EJ CUSAT, Kochi	Development of Triboelectric Nanogenerators with Electrospun Nylon 6 for Self-Sustaining Low-Power Electronics
229.	277	Dr. Anshida Mayeen CUSAT, Kochi	Self-poled, flexible, biocompatible Cerium Oxide/Curcumin loaded PVDF nanofibers based piezoelectric dermal patches for wound healing
230.	278	Dr. Sunitha K Vikram Sarabhai Space Centre, Thiruvananthapuram	High Char Yielding Molybdenum containing Phenolic resins: Synthesis, Evaluation of Composite properties
231.	279	Dr. Monisha Baby Vikram Sarabhai Space Centre, Thiruvananthapuram	Biomimicking Polymeric Adhesion Promoters on Polymeric and Metallic Subtrates for Improved Adhesion: Synthesis and Characterisation
232.	280	Dr. Debarshi Dasgupta Momentive Performance Materials	Silicones in Micro-Electronics Packaging
233.	281	Dr. Raneesh Konnola Vikram Sarabhai Space Centre, Thiruvananthapuram	Studies on the effect of Accelerators and Initiator on the Cure Characteristics of Anaerobic Thread locking Sealants
234.	282	Mr. Aman Kumar Kesari IICT, Hyderabad	Cellulose Nanocrystals Reinforced TPS/PBAT Blends through Extrusion and Application in Compostable Carry Bags
235.	283	Mr. Mulla Abdul Mannan IICT, Hyderabad	Nano cellulose Reinforced Polymer Composite Preparation for Durable Automotive Parts
236.	284	Mr. Chandan Kumar Munagala IICT - Hyderabad	Upcycling of Fast-Moving Consumer Goods Waste Through Catalytic Pyrolysis for Fuel Oil Production: A Strategy for Multi-Layer Plastic Management
237.	285	Mr. M. Syed Mohammed Razak IICT - Hyderabad	Upcycling Plastic Pyrolytic oil to Grey Hydrogen: A Path to Plastic Circular Economy
238.	286	Prof. Priyadarsi De IISER Kolkatta	Amino Acid-Derived Alternating Polyampholytes
239.	287	Dr. Leena Karthi Vikram Sarabhai Space Centre, Thiruvananthapuram	Processing and evaluation of epoxy potting compounds modified with silane coupling agents and dispersing additives
240.	288	Prof. Mohammad Jawaid Universiti Putra Malaysia	Oil palm fibre-based Biopolymer Composites for Packaging Applications
241.	289	Dr. Ramjee Subramanian Pakka Inc	Innovation at Scale: Regenerative Packaging
242.	290	Prof. Mangala Joshi IIT Delhi	Development of Weather Resistant and Gas Barrier Thermoplastic Polyurethane Nanocomposite Films and Laminates for Inflatables
243.	291	Ms. Shruti Mali IIT Bombay	Enhancing Mechanical Properties of the novel Biomaterial for Bone-Soft Tissue Fixation

244.	292	Dr. Sreejit Nair Momentive	Functional Silicones and Silanes for a Sustainable world
245.	294	Dr. BDS Deeraj IIST	Can Metal Organic Frameworks and Their Hybrids Strengthen Epoxy Composites?
246.	296	Prof. Petr Saha Tomas Bata University, Czech Republic	Footwear waste for battery production
247.	297	Dr. B. Satheesh Kumar Vikram Sarabhai Space Centre, Thiruvananthapuram	Toughened Epoxy with Excellent Low Temperature Performance and Micro-crack Resistance
248.	298	Mrs. Aswathy S Nair NIIST, Trivandrum	Graphene-Based Polymer Membranes for Tarpaulin Applications: A Promising Approach to Improve Durability, Fire Resistance, and Lightweighting
249.	299	Dr. Temina Mary Robert Christian College Kattakada, Trivandrum	Low density self-lubricating composites based on Polyimide and Boron nitride
250.	301	Dr. Saju Joseph Mahatma Gandhi University, Kottayam	Quantum Mechanical Modeling of Coherent Ultrafast Charge Transfer in a Pentacene-Fullerene Organic Photovoltaic Complex
251.	302	Dr.K. Indulekha Vikram Sarabhai Space Centre - Thiruvananthapuram	Structurally tuned self-curing silicone polymer with multifaceted properties for space applications
252.	304	Mr. Karan Chandrakar IIT Delhi	In-situ Synthesised Nanodiamond Functionalized Polyethylene terephthalate (PET) and its Applications
253.	305	Dr. Rajkumar Kasilingam IRMRA	Sustainable Materials for Elastomer industry
254.	306	Mr. Pranay Ahuja IIT Delhi	Up-scalable synthesis of ZnO nanostructures for applications in functional textiles
255.	307	Dr. S. Jayavani MG University, Kottayam	Sustainable Nanocomposites of Vegetable Oil-Based Polyurethane and Clay: Synthesis and Characterization
256.	308	Dr. S. Jayavani MG University, Kottayam	Synthesis and Characterization of Biobased Polyurethanes from Sustainable Polyols
257.	310	Prof. Jayesh Bellare IIT Bombay	Lab to clinic: What it takes to bring a novel biodegradable and resorbable polymeric 3D scaffold from lab to the operating room for surgical trials in bone tissue engineering
258.	311	Mr. Harshal Peshne IIT Delhi	Comparative studies of effect of varying percent of poly(ethylene glycol) on the miscibility, crystallization and thermo-mechanical properties of the biodegradable polyester blends
259.	312	Prof. Paula Moldenaers KU Leven, Belgium	Compatibilization of polymer blends with block and random copolymers compared to a self- compatibilization strategy
260.	313	Dr. Ines Kuehnert IPF, Dresden, Germany	Molecular Weight Influence on the Morphology and Mechanical Properties of Micro-Injection Molded Polyoxymethylene (POM)

261.	314	Mr. Dawn Raju Vikram Sarabhai Space Centre, Thiruvananthapuram	Tailor-made silicone compounds for performing dual functions in PCBs
262.	315	Ms. Aparna Asok Amrita Vishwa Vidyapeetham,Kollam	Preparation of Few-Layer Boron Nitride Nanosheets and their Incorporation into Chlorobutyl Rubber for the Fabrication of Nanocomposites for Oil-Water Separation
263.	316	Ms. Akhila Raman Amrita Vishwa Vidyapeetham,Kollam	Bioepoxy/Graphene Nanoplatelets Composites: An Innovative Material for Shape Memory Applications
264.	317	Dr. Nancy Gupta Netaji Subhas University of Technology, New Delhi	pH-dependent Synthesis and Interactions of Fluorescent L-Histidine Capped Copper Nanoclusters with Metal Ions
265.	318	Dr. Subhra Mohanty Apcotex Industries	Effect of Polymer Microstructure on Morphology and Processing based on Diene based Elastomers
266.	319	Mr. SKP Amarnath Apollo Tyres	Circular Economy in the Tyre Industry: A Sustainable Paradigm
267.	320	Prof. Mark D. Soucek University of Akron, USA	Using Reactive Diluents in Extrusion
268.	321	Mr. Vikramsingh Thakur IIT Delhi	Bilayer barrier-resistant pH-responsive films as freshness indicators for food packaging
269.	322	Sambhu Bhadra Ceat Ltd, Gujarat	Effect of different bio-fillers on the properties of tyre tread compound
270.	323	Dr. Sujith Nair CEAT	Recent Challenges and Remedies Towards Sustainability in Tyre Industry
271.	324	Mr. Addisalem Abebe IIT Mandi	Synthesis of Resorcinol–formaldehyde resins decorated with SeO_2/TiO_2 as semiconductor photocatalysts for Solar-to-hydrogen peroxide energy conversion and post organic transformation using H_2O_2
272.	325	Mrs. Dhrishya V IIST	Optimization of Carbon Derived from Waste Plastic Combined with for Supercapacitors - A Waste to Wealth Approach
273.	326	Dr. Pratyay Basak IICT	All-Solid State Li-ion Batteries: Feasibility of Integrating Polymer Electrolytes with Insertion Electrodes
274.	327	Dr. Jesna Ashraf The University of Auckland, New Zealand	Compatibilization of Polypropylene/Low-Density Polyethylene blends using Plasma Modified Polypropylene
275.	328	Dr. Vineet Aniya IICT Hyderabad	Depolymerisation of Non-recyclable Plastic Waste: Post-consumer waste Polyethylene Terephthalate to Green plasticisers
276.	329	Dr. Shruti Gurbaxani IIT Delhi	Circular Economy: Repurposing Post-Consumer Plastic Waste into 3D Printing Materials
277.	330	Ms. Pooja Kadam Reliance	Application of Artificial Intelligence in Polymer Development
278.	331	Prof. Prem Felix Siril IIT Mandi	Photoreforming of Plastic Waste to Obtain Green Hydrogen and Other Value-Added Products

279.	332	Dr. Putla Sudarsanam IIT Hyderabad	Efficient conversion of PET waste to valuable chemicals using novel heterogeneous catalysts at mild conditions
280.	333	Dr. Prajesh Nayak IIT Delhi	Dynamic mechanical behavior of STF-encapsulated electrospun UHMWPE/HDPE composites
281.	334	Mr. Rajesh Punia IIT Delhi	Effect of Supercritical CO2 and Nucleating Agent on the Cellular Structure of Microcellular Low-Density Polyethylene Foam
282.	335	Prof. Naresh Bhatnagar IIT Delhi	Design and Development of Light weight UHMWPE Bullet Proof Jacket – Realization of a Dream
283.	337	Dr. Amit Gupta DCM Shriram	Industrial By-Product Utilization – Value Added Products From Brine Sludge
284.	339	Dr. Saroj Kumar Samantaray Kingfa Science and Technology (India) Limited	On the Crystallization Kinetics of Polyamide 6/Black Masterbatch Blend: Assessing the Effects of Carbon Black and Organic Pigment on Thermal Transition
285.	340	Dr. Debdatta Ratna Naval Materials Research Laboratory	Processing of Polymers and Composites for Naval Applications
286.	344	Prof. Jun Ma University of South Australia	Empowering Polymers with Multifunctionality: The Role of Graphene Nanoplatelets in Advanced Nanocomposites
287.	346	Mr. Vaibhav Koushik A.V. VOiLA Scientific Needs Pvt. Ltd., Bangalore	Large Scale Robotic FGF 3D Printing Technology & Development of Efficient Pathways For Upcycling PCR/PIR Recycled Plastics