



39th Australasian Polymer Symposium

7-10 December 2025
Canberra Rex Hotel



POSTER PROGRAM

Name	Poster Title	Poster No.
Octaviani Siregar	4D-Printed Auxetic Cardiac Patch: Using CNT-Reinforced Bio-Based Resin for Enhanced Flexibility and Conductivity	1
Kvan Jelodare	A Closed-loop and Self-driving Precision Polymer Synthesis Platform Using ML	2
Hongjing Luo	A study on antibacterial and biological property of SNAPPs with Dopa handle	3
Yovilianda Maulitiva Untoro	A Sustainable Processing of Novel Lignocellulose Materials	4
Jade Wilson	Binary doped-photochromic films for optoelectronic applications	5
Peidong Shen	Bio-based Sustainable Polymers	6
Holly Gill	Design and Synthesis of a Photochromic Conjugated Polymer for Organic Electrochemical Transistors	42
Gaurav Rai	Designing Heat-Resistant Self-Healable Adhesives through Polybenzoxazine Vitrimers with Dual Dynamic Networks	7
Mahlet Tsedalu Adane	Development of Vat-photopolymerized Bioactive Scaffolds with Eggshell Powder for Enhanced Bone Regeneration	8
Risa Otake	Diet impacts on black soldier fly growth and chitin/chitosan production	9
Shraddha R Bhat	Fabrication of Multi-Material Flexible Conducting Polymers	10
Prof Anna Bielawska	Gold Polymer Nanomaterials: PEGylated Au Nanoparticles Modified With Derivatives Of 2-Thioxothiazolidin-4-one Induced Neurotoxicity In Human Neural Cells	11
Mengyu Wang	Highly isotactic polylactide by binary organocatalyzed polymerization of 1,3-dioxolan-4-ones	12
Dr Muhammad Zubair Shahid	Hybrid PSA-Membrane Systems for Intensified Hydrogen Production using SMR Process	13
Thomas Roads	Investigating the Role of Hydrophobicity in Antimicrobial Peptide Star Polymers	14

Amna Binte Asghar	Large Language Models for Kinetic Modelling and Rate Coefficient Determinations in Radical Polymerization	15
Kalyanshi Ubnare	Localized electrochemical 3D printing	16
Dr Haoxiang Zeng	Loop to Linear: Exploring the Impact of Corona Topology on the Properties of Self-Assembled Polymer Nanoparticles	17
Miao Chen	Metal-Free Photoinitiated, Controlled Cationic Polymerization of Vinyl Ethers Using Organic Iodides	18
Liqiang Li	Multifunctional Carbon Dot-based Triazine: A Visible Light-Sensitive Photoinitiator Sourced from Natural Products for Precision 3D Printing	19
Dr Shakeel Ahmed	MXene–Polymer-Engineered Ni–SnS Composite for Efficient and Durable Hydrogen Production	20
Ingita Tiwari	Nanostructured Polybenzoxazine Particles-Supported Ammonia Borane for Hydrogen Storage and Release	21
Prof Chang-soo Lee	One-step formation of controllable complex emulsions	22
Rayland Low	Oxygen Facilitated Photoinduced Atom Transfer Radical Polymerisation	23
Shubham Verma	Oxygen facilitated visible light mediated Iniferter RAFT Polymerization	24
Bailey Richardson	Peptide Self-Assembly Controlled Photoligation of Polymers	25
Dr Yasir Abbas	Poly(organo)phosphazenes for rapid and selective E-waste gold extraction from aqua regia	26
Dr Jasmine Pople	Poly(trisulfides) as new fungicides	27
Siyoon Yang	Polymer-Assisted Coating Layers on Electrode Materials for Highly Stabilized Lithium-ion Batteries	28
Hira Khaleeq	Polymeric Wrinkles on Hydrogel Surfaces	29
Clodagh Boland	Self-driven AI for synthesis and optimization of antiviral polymers	30
Dr Kathleen Wood	Small Angle Neutron Scattering Capability at ANSTO	31
Prof Hyeong Min Jin	Small angle scattering analysis for advanced energy materials	32
Iris Kachel	Stimuli-Responsive Polymer Nanoparticles for Therapeutic Delivery	33
Prof Taek Seung Lee	Synthesis of Semiconducting Polymer and Hybridization for Biological Sensing	34
Mark-Jefferson Boyetey	Targeting the Viral Membrane: Engineering Polymers to Disrupt Enveloped Viruses	35

Hannah Sheers	The renewable feedstock levoglucosenone as a building block for the development of bio-derived acrylic polymers	36
Dr Harshal Patel	Thermal Imaging Using Sulfur Polymer Optics	37
Rimaz Toto	Ultra-High Molecular Weight Biomaterials	38
Shirin Ansariashlaghi	Understanding the thin film switching properties of photochromic main chain polymers	39
Dr Faizah Altaf	Upcycling Date Palm Waste: Cellulose-Based Membranes for Redox Flow Battery Applications in Grid-Scale Energy Storage	40
Dr Fahd Alakbari	Updates of Polymeric Surfactant in Chemical-Enhanced Oil Recovery	41