



Polymers2022 List of Posters

Poster Session A – Wednesday, 25 May 2022; 10:35-11:35h

Poster Session	Poster Number	Author Name	Title
A	1	Elisabetta Esposito	Poloxamer gel as new strategy for adjuvant therapy of melanoma
A	2	Dimitrios Bikiaris	Evaluation of thermal properties of PCL-based linear and star shaped copolymers prepared by ring-opening polymerization
A	3	Dimitrios Bikiaris	Synthesis of mPEG-PCL random copolymers and study of their rheological behavior
A	4	Mohamad Tasneem	Analysis of Plate-like Medical Implant Structures Using Higher-order Theory with C1 Continuity and Efficient p-Finite Elements
A	5	Maider Iturrondobeitia	Polyhydroxybutyrate (PHB) composites for fishing purposes: a reduction of marine waste environmental impacts
A	6	Muhammad Usman Munir	Development of eco-friendly nanomembranes of Aloe Vera/PVA/ZnO for potential applications in PPEs.
A	7	Antanas Straksys	Application of natural polymers for the design of the new β -carotene complexes
A	8	Cordula Hege	Using iron catalyst to prepare biocompatible oligomers
A	9	Monika Majerčíková	Poly(2-isopropenyl-2-oxazoline) as drug carrier for controlled drug release
A	10	Mariangela Rea	3D-Bioprinted Models: A Potential Tool for Estimating Safety Of Plastic Food Packaging
A	11	Roser Sabater i Serra	Novel PHBV/PVA-based semi-IPN hydrogels with conductive nanoparticles: synthesis and physicochemical characterisation
A	12	Roser Sabater i Serra	Bio-nanocomposite hydrogels based on zinc alginate/graphene oxide for tissue engineering
A	13	Irfan Shahzad	Synthesis, optimization, characterization, and interaction studies of plant-oil based epoxidized monoesters for polar polymeric materials
A	14	Ioulia Chrysafi	Study of new poly(lactic acid) block copolymers with poly(hexylene succinate) as appropriate microparticles for long-acting injectables of risperidone drug.
A	15	Beatriz María Fresco-Cala	Surrogate-imprinted polymers for the detection of viruses

A	16	Beatriz María Fresco-Cala	Magnetic solids based on carbon nanotubes prepared from Pickering emulsions
A	17	Claudio Cecone	Innovative biopolymers for inorganic and organic pollutants removal in water treatment
A	18	Stefania Zappia	Rod-coil block copolymer:fullerene blend water-processable nanoparticles: how molecular structure addresses morphology and efficiency in NP-OPVs
A	19	Roxana Gheorghita Puscaselu	Innovative edible biomaterials with natural essential oils for powdered supplements: new strategies to improve food quality and reduce waste from disposable packaging
A	20	Auksė Navaruckienė	Vanillin acrylate-based antimicrobial shape memory polymers
A	21	Buse Sonmez	The Adsorption of Methylene Blue and Rhodamine B by Pullulan-graft Superabsorbent Hydrogels
A	22	Eider Mendiburu-Valor	Study of degradation and chemical recycling by glycolysis of urban and marine PET waste.
A	23	Filippo Fabbri	Elucidating Enzymes Selectivity and Thermostability in Short-Esters and Polyesters Synthesis
A	24	Felice Quartinello	Plastic and aluminium recycling from multilayer packaging waste using biogenic sulfuric acid
A	25	Danila Merino	Highly antioxidant composite bioplastic films from avocado residues for food packaging applications
A	26	Danila Merino	Lemon peel derived bioplastics intended for agricultural applications
A	27	Cicely Warne	Greening Polyester Synthesis: Investigating Enzymatic Polycondensations in Novel Bio-based Solvents.
A	28	Edyta Rekiel	Biosurfactants and wetting of chosen polymers
A	29	Cristian-Dragos Varganici	Effect of UV irradiation on epoxy and oligophosphonate S-IPNs
A	30	Dan Rosu	The thermal behavior of epoxy resins cross–linked with bio–based curing agent
A	31	Liliana Rosu	Epoxy and oligophosphonate S–IPNs. Morphological study
A	32	Joanna Smenda	The facile synthetic route of advanced copolymer and patterned surface- grafted brushes with pendant functional groups
A	33	Nikolaos Bikiaris	Effect of Nanoclays Addition on the Structural and Mechanical Properties of Polypropylene Random Copolymer
A	34	Aurora Lasagabáster-Latorre	Electrical Conductivity Enhancement of Polyaniline/Polycaprolactone Composites through Thermal Processing and Solution Casting
A	35	Sigita Grauželiene	Synthesis and investigation of vitrimers from glycerol and vegetable oils
A	36	Maria Morales	Sustainable 3D printing filaments based on recycled polypropylene and rice husk: Effects of fiber particle size and maleic anhydride-grafted-polypropylene implementation

A	37	Alberto Frache	Development of ternary biopolymer blends: mechanical and rheological characterization
A	38	Massimo Lazzari	Hierarchically porous S/N/O codoped carbons from polyacrylonitrile-based block copolymers for selective separation of industrial pollutants
A	39	Alberto Rubin Pedrazzo	Solvent Free Mechano-Synthesis of Cyclodextrin Crosslinked Polymers
A	40	Dimitrios Bikiaris	Bioderived Furanoate Polyesters for Sustainable Packaging: Effect of Blending and Nanofiller Addition on the Thermomechanical and Functional Properties
A	41	Maninder Singh	New Generation Bioplastics of Ductile Poly(phenol)s with Poly(butylene succinate)
A	42	Dina Maniar	Enzymatic Synthesis of Biobased Furan Based Polymers

Poster Session B – Thursday, 26 May 2022; 10:15-11:15h

Poster Session	Poster Number	Author Name	Title
B	1	Marina Zoccola	Wool keratin: extraction, processing and applications in the biomedical sector
B	2	Haleema Khanzada	Polyhydroxy butyrate Nano spheres incorporated with drug for medical applications
B	3	Adrián Matencio	Cyclodextrin-Based Nanosponges as stabilizer and promotor of the anticancer activity of Nisin against Colon and Breast Cancer Cells.
B	4	Ionela Alice Podaru	Nanocomposite Hydrogels Based on Poly(N--Vinyl Pyrrolidone) and Laponite XLG
B	5	Monika Sikora	The Potential of Using Chitosan in the Biotechnological Production of Proteins
B	6	Monica Torsello	A New Material for Protective Face Masks and Respirators with High Breathability
B	7	Dimitrios Bikiaris	Poly(lactic acid) / Poly(ethylene adipic acid) Copolymers For Paclitaxel Delivery
B	8	Gianluca Ciarleglio	N-Isopropylacrylamide-based Composite Hydrogels Containing Carbon Nanotubes: Synthesis by Two-Step Photopolymerization and Characterization
B	9	Petr Snetkov	Curcumin-Usnic Acid-Loaded Electrospun Nanofibers Based on Hyaluronic Acid as Potential Targeted Drug Delivery System
B	10	Alina Gabriela Rusu	Synthesis and characterization of dacarbazine loaded chitosan polymersomes
B	11	Alexandra Croitoriu	Hydrogels based on amino acids and gelling polymers
B	12	Zoi Terzopoulou	3D printed thermosensitive antibacterial patches for wound healing applications
B	13	Ioanna Koumentakou	Fabrication of 3D printed thermosensitive dressings for wound healing applications

B	14	Klaudia Szafran	Langmuir-Blodgett technique - a research method helpful in the design of biocompatible coatings for implants
B	15	Sergio Bocchini	CO ₂ capture and separation, the first step toward circular economy; a regenerable, bio-based, polymerized, ionic liquid membranes
B	16	Andrea Roggi	SBS-based anion exchange membranes for water electrolysis
B	17	Jin Hau Lew	Hydrolysed polyacrylamide adsorption onto calcium carbonate
B	18	Anna Hatalak	A facile and ecofriendly synthesis of polymer brushes bearing pyridine groups
B	19	Agnė Kairytė	Recycling liquid glass modified waste-lignin into bio-based polyurethane foam composites for building materials industry
B	20	Lazaros Papadopoulos	Investigating adipic acid as a green alternative for the synthesis of biobased Unsaturated Polyester Resins
B	21	Lazaros Papadopoulos	Turning additive manufacturing green: Exploring the potential of biobased polyester resins into UV 3D printing applications
B	22	Georgia Michailidou	Extraction Of Olive-Tree Byproducts Biomass And Its Characterization For Wood-Based Panels
B	23	Chiara Siracusa	Comparison of enzymatic hydrolytic mechanisms on different bio-based plastics
B	24	Sophia Mihalyi	A circular economy approach: efficient cellulases recovery in enzymatic polymer separation
B	25	Ewa Olewnik-Kruszkowska	Formation of antibacterial polylactide-based films with an addition of berberine as potential food packaging materials
B	26	Sara Dalle Vacche	Nanocellulose based materials: barrier and viscoelastic properties
B	27	Justyna Bała	Microliter scale synthesis of polymer nanobrushes based on poly(3,4-propylenedioxythiophene)
B	28	Aurica Chiriac	Eco-friendly synthesis of a new copolymacrolactone amphiphilic system
B	29	Krystyna Wrześniewska-Tosik	Innovative nonwovens with addition of feathers for agricultural applications
B	30	Teodoro Klaser	Structure and physical properties of biopolymer glass composites prepared with ionic liquids
B	31	Magdalena Gierszewska	Chitosan films crosslinked with dialdehyde starch as novel food packaging materials
B	32	Kamila Chajec	Making ATRP greener: light-mediated synthesis of functional polymer brushes
B	33	Edoardo Miravalle	Biodegradation of polystyrene via Zophobas Morio larvae and guts deriving bacteria
B	34	Yelena Kann	Biodegradable plastics: revisiting the science and offering a new sustainable solution

B	35	Liudmyla Gryshchuk	Novel bio-based indirect polyurea resins
B	36	Supparoeek Boopasiri	Fabrication of microcrystalline cellulose/ZnO hybrid composite by hydrothermal synthesis and its application in rubber compounding
B	37	Eleftheria Xanthopoulou	Influence of the nanoadditive on the structural and thermal properties of polypropylene/SiO ₂ composites for heating/cooling pipe systems
B	38	Giacomo Damonte	Preparation and characterization of pyrenyl terminated polycaprolactones for the development of and nanocomposites and nanopapers based on graphite nanoplates
B	39	Francesco Paolo La Mantia	Experimental Study and Additive Model to Predict Rheological and Mechanical Properties of Reprocessed Monopolymer Blend.
B	40	Gianluca Viscusi	Hemp Fibers Modified with Graphite Oxide as Green and Efficient Solution for Water Remediation
B	41	Florin Marian Dirloman	Novel polyurethane binders designed for 'green' composite energetic materials
B	42	Fabio Bertini	Benzothiadiazole based poly(rod-coil) polymers as promising materials for mechaannical oriented films with polarized emission
B	43	Pierre Carmona	Structure Evolution of Phase-Separated Biopolymer Films for Controlled Drug Delivery

Poster Session C – Friday, 27 May 2022; 10:25-11:25h

Poster Session	Poster Number	Author Name	Title
C	1	Petr Snetkov	The fabrication of PVA - chitosan nanofibers by electrospinning method as drug delivery system for mangiferin
C	2	Andres J. Garcia-Brand	Cellular and Mechanical Performance of 3D-Printed Poly(Lactic acid) and Cocoa Bean Shell-based bone scaffolds
C	3	Gjylje Hoti	Determination of the cross-linking density and monomer composition of cyclodextrin-based nanosponges: a multiple-method approach
C	4	Dania Olmos	Surface characterization of airbrushed porous fibrillar composite materials based on polysulfone (PSF) & hydroxyapatite (HA).
C	5	Javier González-Benito	Preparation and characterization of biocompatible and biodegradable polylactic acid/poly(ε-caprolactone) solution blow spun materials
C	6	Javier González-Benito	Preparation by solution blow spinning and characterization of biocompatible nanocomposites based on polylactic acid (PLA) filled with magnetite nanoparticles

C	7	Klara Magyari	In vitro bioactivity and biocompatibility of alginate-pullulan based composites
C	8	Gabriela Precup	Xylo-oligosaccharides derived from wheat by-products as novel carbohydrates for potential food applications
C	9	Monica Argenziano	Linecaps® -based buccal films for the oral delivery
C	10	Anna Scomparin	Alkyl derivatives of -cyclodextrin cationic polymers: a novel siRNA delivery system
C	11	Anna Scomparin	Oxygen-loaded dextran-nanodroplets overcome gemcitabine resistant in pancreatic cancer
C	12	Stefanie Ficht	Poly p-dioxanone as promising biodegradable polymer for short-term medical application
C	13	Riccardo Ferrero Valentina Brunella	Can quantum-mechanical calculations shed light on cyclodextrin-based nanosponges (CD-NS) as drug delivery systems?
C	14	M. I. Sayyed	Study on gamma radiation protection effectiveness of nano/micro MgO -reinforced novel silicon rubber for medical applications
C	15	Gopal Krishna Mehrotra	Preparation, Characterization and Biological Activity of Chitosan-PVA-Ni Nanocomposite Film for Food Packaging
C	16	Maria Laura Tummino	PVA/biowaste-derived substances electrospun fibres: a promising sustainable tool for pollutant removal
C	17	Anna Sowińska-Baranowska	Effect of Ionic Liquids on the Vulcanization and Properties of Natural Rubber Biocomposites
C	18	Lynn Röver	Model-based investigation of the impact of paraformaldehyde on the ring-opening polymerization of epoxides and its molecular weight distribution
C	19	Adriana Nicoleta Frone	Thermal and mechanical behavior of PLA plasticized by a bio-derived plasticizer
C	20	Fulvia Cravero	Proposal of mechanical recycling and feasible applications for disposable surgical masks.
C	21	Adriano Vignali	Styrene-free biobased thermosetting resins with tunable properties
C	22	Marcin Marczak	A new Circular Economy approach to the production of EPDM-based composites and functionalized by-products of forest biomass combustion
C	23	Antonella Moramarco	Preparation and Carbonization of Glucose and Pyromellitic Dianhydride Crosslinked Polymers
C	24	Anamaria Todea	Molecular docking and DFT calculations of bio-based aliphatic and aromatic polyesters
C	25	Ana Kramar	Solution blow spinning of CA/PEO nanofibers
C	26	Alexander Shaplov	Novel approaches for creation of polyelectrolytes (poly(ionic liquid)s) with improved conductivity and mechanical performance
C	27	Elena Togliatti	Characterization of Biodegradable PBAT-based Composites: Dynamic-Mechanical Analysis and Degradation Behaviour

C	28	Barbara Liedl	Recyclability of Thermoplastic Organosheet Production Waste
C	29	Claudio Cecone	Dextrin-based polymers for the removal of salicylic acid as an emerging pollutant from aqueous media
C	30	Anastasia Anceschi	An open-loop recycling for textile waste: high-value carbon materials from PET-PU industrial scraps.
C	31	Francesco Cantamessa	Covalent adaptable networks: thermo-reversible crosslinked rubber prepared via melt blending and its nanocomposites.
C	32	Mohamed Magdy Hassan Desoky	Synthesis of phenothiazine-based low-cost transparent polymers as HTMs for perovskite solar cells via Buchwald−Hartwig Amination
C	33	Tianhui Jiang	Poly(acrylic acid)/ poly(diallyldimethylammonium chloride) (PDADMAC) complexes embedding reduced Graphene Oxide
C	34	Marcin Maślowski	Application of agricultural waste in the technology of elastomeric materials.
C	35	Vusal Guliyev	Links among microbial communities, soil physicochemical properties, and soil functions in plastic-soil systems: Are fungi the sole player in the degradation of bio-based and biodegradable plastic?
C	36	Christina Gkountela	Enzymatic depolymerization against polymers structure and properties in the perspective of biochemical recycling
C	37	Teodoro Klaser	Glass-filled polylactic acid composites - physical and structural properties
C	38	Evaldas Bolskis	Morphological and Mechanical Properties of Multifilament Fibers Prepared by Melt Spinning Using Polymers Modified with Myrrh Extract
C	39	Luca Lenzi	Glycerol Trilevulinate: a step forward in the transition from plasticizers to bioplasticizers
C	40	Martina Ferri	Polyhydroxyalkanoates/tannins-based films as potential material for food packaging applications
C	41	Marina Eskova	Towards hydrophobicity tuning of the Diels-Alder reaction based polymer materials
C	42	Goretti Arias-Ferreiro	Design of a 3D printing eco-friendly lignin acrylic resin for LCD vat polymerization