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WELCOME

On behalf of the Organizing Committee and the Hellenic Polymer Society, we cordially welcome you in the 14th Hellenic Polymer Society International Conference (POLYCONF14) which will take place from 22 to 25 November 2023 at Aristotle University Research Dissemination Center, Thessaloniki, Greece.

The Hellenic Polymer Society Conference series, is a biannual event hosted in different cities in Greece and features plenary lectures, invited talks, oral and poster presentations from Academics, Researchers, and Industrial partners.

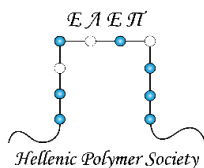
The purpose of the Conference is to communicate the steady and continuous evolution of research in the field of Polymer Science in Greece and abroad and to promote the interaction between basic research and industry, aiming at the maximum possible technological development.

The thematic areas that will be covered include Health, Energy and Environment, Theory and Simulations, Industrial Processes and Applications, and Fabrication of Novel Polymer-Based Materials.

More specifically, the following topics are planned to be discussed: Synthetic and Bio-polymers in Life Sciences, Polymer Formulations for Drug and Gene Delivery, Polymers for Energy and Environmental Applications, Sustainable Polymeric Materials, Biobased and Biodegradable Polymers, Polymer Recycling, Microplastics, New Theoretical Developments in Polymer Science, Mathematical Modelling and Computer Simulations, Structure/Properties Predictive Tools Based on Artificial Intelligence Methods, Organic and Hybrid Coatings, Polymer Production and Processing, Polymer Characterization, Materials for Packaging Applications, Polymers for Electric, Optical and Electronic Applications, 3D-Printing, Polymer Synthesis and Functionalization, and Polymer Blends and Alloys.

At POLYCONF14, elections will take place for the selection of the new Board of Directors of the Hellenic Polymer Society.

CONFERENCE ORGANIZERS



Under the auspices of the European Polymer Foundation (EPF)



ORGANIZING COMMITTEE

K. Karatasos (AUTH)

D. Achilias (AUTH)

D. Bikiaris (AUTH)

I. Tsivintzelis (AUTH)

O. Kammona (CPERI/CERTH)

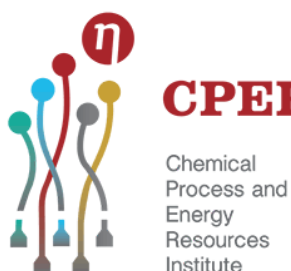
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SPONSORS

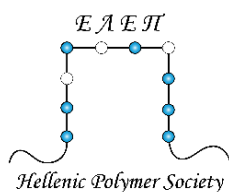
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Oral & Poster Awards Sponsors



Sponsors



GENERAL INFORMATION

Location

The conference takes place in Thessaloniki, Greece. Thessaloniki, which is the second largest city in Greece, is one of the oldest cities in Europe. It was founded about 315 B.C., on a site of old prehistoric settlements going back to 2300 B.C., by Cassander, King of Macedonia, and was named after his wife, Thessaloniki, sister of Alexander the Great.

Venue

Aristotle University Research Dissemination Center



The building is located downtown on Tritis Septemvriou Str. at Aristotle University's campus between the Student Club and the University Gymnasium.

Tel. +30 2310 994013

For more information about the venue please visit: https://kedeia.rc.auth.gr/documents/kedeia_brochure_en.pdf

The KEDEA building is connected with the following bus lines: 2, 7, 14, 58 Bus Stop University of Macedonia 17, 24, 37 Bus Stop Fititiki Leschi 10, 31 Bus Stop Agia Foteini- University of Macedonia 27, 28, 83 Terminal Stop.

Conference Dinner

The Conference Dinner will take place on Thursday, November 23 at 21.00 at **"Akti Dovel" Fish Restaurant**. A tasteful dinner will be prepared for you.

USEFUL CONTACTS

KEDEA (Venue)	0030 2310 994013
Thessaloniki Bus Station	0030 2310 595400
Taxi Thessaloniki	0030 2310 55 0500
General Hospital "Agios Dimitrios"	0030 2313 32 2100
General Hospital "G. Genimatas"	0030 2313 30 8100
General Hospital "Ippokrateio"	0030 2310 89 2000
Fire Department of Thessaloniki	0030 199
Ambulance service	0030 166

Conference Secretariat

Diazoma Conferences and Events

<https://diazoma.net>



Tel: 0030-2810321494, 0030-6908 215112

Emails: info@diazoma.net
conferences@diazoma.net
meetings@diazoma.net

14th Hellenic Polymer Society International Conference

PROGRAM TABLE

Wednesday 22nd November 2023

17.00-18.45	Lobby	Registration
18.45-20.30	Lobby	Welcome Reception

Thursday 23rd November 2023

Room A	Session TA1	Chair	08.45-11.15	Speaker	Room B	Session TB1	Chairs	10.15-11.15	Speaker	
		S. H. Anastasiadis					E. Andreopoulou & E. Glynos			
08.45-09.15	Opening Ceremony – Welcome									
09.15-09.30	Honors to Prof. Emeritus C. Kiparissides & Prof. Emeritus C. Panayiotou									
09.30-10.15	Keynote Talk	Pentacrystalline Pentablock Quintopolymer: A Single Polymer with Five Different Crystalline Phases		<i>Nikolaos HADJICHRISTIDIS</i>						
10.15-10.45	Invited Talk	Linear and Complex Architecture Copolymers for Advanced Nanopatterning Applications		<i>Apostolos AVGEROPOULOS</i>	10.15-10.45	Invited Talk	Novel Polyisatin based Ion-Solvating Blend Membranes for Alkaline Water Electrolysis		<i>Valadoula DEIMEDE</i>	
10.45-11.15	Invited Talk	Poly(N-vinyl pyrrolidone) based amphiphilic statistical and block copolymers via RAFT polymerization. Synthesis, characterization, thermal properties and self-assembly behavior in organic and aqueous media		<i>Marinos PITSIKALIS</i>	10.45-11.00	Oral Presentation	Sulfonation of biopolymer chitosan-based composite membranes with silica as filler for direct methanol fuel cell applications		<i>Mochamm PURWANTO</i>	
					11.00-11.15	Oral Presentation	Synthesis and Properties of Imidazole Coated Magnetic Particle as Candidate Material for Polymer Electrolyte Membrane Fuel Cell		<i>Lukman ATMAJA</i>	
11.15-11.40	Lobby	Coffee Break								

Room A	Session TA2	Chairs	11.40-13.55	Speaker	Room B	Session TB2	Chairs	11.40-13.55	Speaker
		M. Pitsikalis & A. Avgeropoulos					G. Hatzioannou & G. Petekidis		
11.40-12.10	Invited Talk	Main-chain Photodegradable Polymers		<i>Maria VAMVAKAKI</i>	11.40-12.10	Invited Talk	Development of Functional Surfaces with Controllable Wettability and Water Adhesion		<i>Spiros ANASTASIADIS</i>
12.10-12.25	Oral Presentation	Degradable Positively Charged Polyesters with Tunable UCST Transitions in Aqueous Solutions		<i>Maria KALIVA</i>	12.10-12.25	Oral Presentation	Wetting states on biomimetic surfaces based on the plant <i>Salvinia</i>		<i>Periklis PAPADOPOULOS</i>
12.25-12.40	Oral Presentation	Single-ion Polymer Electrolytes Composed of Polyanionic Mikto-arm Star Copolymers		<i>Georgia NIKOLAKAKOU</i>	12.25-12.40	Oral Presentation	Means of control over poly(4-vinylpyridine)-CoBr ₂ complexes functional thin films formation in static and dynamic conditions		<i>Julia CHUDZIK</i>
12.40-12.55	Oral Presentation	All-polymer Nanocomposites Composed of Polyanionic Particles/Poly(ethylene Oxide) Blends as Highly Conducting Single-Ion Polymer Electrolytes		<i>Emmanouil GLYNOS</i>	12.40-13.10	Invited Talk	Design of extrinsic or intrinsic self-healing materials for waterborne polyurethane coatings		<i>Georgios BOKIAS</i>
12.55-13.10	Oral Presentation	Concurrent control over sequence and dispersity in multiblock copolymers		<i>Maria Nefeli ANTONOPOULOU</i>					
13.10-13.25	Oral Presentation	Introducing Structural Discrepancies via Architecture		<i>Gkreti-Maria MANESI</i>	13.10-13.25	Oral Presentation	Tailoring Thermo- and pH-Responsive Properties through Grafted Brush Coatings of Tuned Combinations of Well-Known Monomers		<i>Yana SHYMBORSKA</i>
13.25-13.40	Oral Presentation	New Ni(II) complexes bearing Schiff base ligands in Free Radical photoinitiating systems		<i>Naralyne MARTINS PESQUEIRA</i>	13.25-13.40	Oral Presentation	Improving Self-healing Properties Utilizing Polymer Nanocomposites		<i>Minas STYLIANAKIS</i>
13.40-13.55	Oral Presentation	Thermoresponsive poloxamer-based polyurethane elastomers and a peculiar case of antiplasticization		<i>Konstantinos RAFTOPOULOS</i>	13.40-13.55	Oral Presentation	Development of polymer nanocomposite coatings targeting antimicrobial applications		<i>Francesca GOJDA</i>
13.55-14.55	Lobby	Lunch Break							
Room A	Session TA3	Chairs	14.55-16.55	Speaker	Room B	Session TB3	Chairs	14.55-16.55	Speaker
		P. Pladis & K. Karatasos					D. Achilias & V. Deimede		
14.55-15.25	Invited Talk	Digital Polymer Manufacturing: From Molecular to Plant-Scale Modeling of Polymerization Processes		<i>Costas KIPARISSIDES</i>	14.55-15.25	Invited Talk	Hybrid Biopolymers for Sustainable Applications: Innovations and Challenges		<i>Kelly VELONIA</i>

15.25-15.55	Invited Talk	Atomistic and Mesoscopic Modeling of Structure-Property Relations in Polymers	<i>Doros THEODOROU</i>	15.25-15.40	Oral Presentation	Towards sustainability: Exploring the properties of polyesters based on vanillic acid	<i>Eleftheria XANTHOPOULOU</i>		
				15.40-15.55	Oral Presentation	Lignin-based epoxy and P-F resins: synthesis, properties and chemical recycling	<i>Konstantinos TRIANTAFYLLIDIS</i>		
15.55-16.25	Invited Talk	Multiscale modelling of the glass transition in Nafion membranes for perspective flow and fuel batteries	<i>Alexey LYULIN</i>	15.55-16.25	Invited Talk	Deconstructing Polymers Synthesized by Controlled Radical Polymerization	<i>Athina ANASTASAKI</i>		
16.25-16.55	Invited Talk	Oxidized Graphene Nanosheets in Polymer Hydrated Mixtures	<i>Anastassia RISSANO</i>	16.25-16.40	Oral Presentation	Physicochemical recycling techniques for EoL plastics upcycling and laminate package recycling	<i>George THEODOSOPOULOS</i>		
				16.40-16.55	Oral Presentation	Debromination via soxhlet extraction prior to pyrolysis of plastics collected from waste electric and electronic equipment	<i>Maria Anna CHARITOPOULOU</i>		
16.55-17.20	Lobby	Coffee Break							
Room A	Session TA4	Chairs	17.20-18.50	Speaker	Room B	Session TB4	Chairs	17.20-18.50	Speaker
		M. Vamvakaki & G. Voyiatzis				D. Vlassopoulos & A. Kyritsis			
17.20-17.50	Invited Talk	Emerging materials and technologies for the organic/polymer electronic devices and systems of tomorrow	<i>Georges HADZIOANNOU</i>	17.20-17.50	Invited Talk	Shear induced tuning and crystallization of depletion colloid-polymer gels	<i>George PETEKIDIS</i>		
17.50-18.20	Invited Talk	Polymeric Materials for Energy Related Applications	<i>Joannis KALLITSIS</i>	17.50-18.05	Oral Presentation	High-frequency Optimally Windowed Chirp rheometry: Application in rapidly evolving thermosets	<i>Athanasios ATHANASIOU</i>		
				18.05-18.20	Oral Presentation	On the rheological properties of polymer nanocomposites	<i>Thaleia Michaela CHATZAKI</i>		
18.20-18.35	Oral Presentation	Polymeric and Hybrid Materials for Organic Electronics	<i>Aikaterini ANDREOPOULOU</i>	18.20-18.35	Oral Presentation	Investigating The Shape Memory Properties of Polylactic Acid (PLA) and Thermoplastic Polyurethane (TPU) Blend for Soft Robotics Applications	<i>Ali RAJHI</i>		
18.35-18.50	Oral Presentation	Development of Ultra Low Bandgap Conjugated Polymers for High Performance Organic Photodetectors	<i>Christos CHOCHOS</i>	18.35-18.50	Oral Presentation	Fabrication of Responsive Polymer Microgel Containing Silver Nanoparticles for Water Treatment Via Catalytic and Antibacterial Actions	<i>Muhammad AJMAL</i>		
18.50-20.15	Lobby	Poster Session 1							
21.00-23.30	Conference Dinner								

Friday 24th November 2023

Room A	Session FA1	Chairs	09.00-11.15	Speaker	Room B	Session FB1	Chairs	09.45-11.15	Speaker
		O. Kammona & M. Chatzinikolaidou					K. Triantafyllidis & K. Chrissopoulou		
09.00-09.45	Keynote Talk	Thiolated Polymers – Thiomers: Utilizing the most prominent bridging structure designed by nature		<i>Andreas BERNKOP-SCHNÜRCH</i>					
09.45-10.15	Invited Talk	Multi-responsive nanostructured materials to treat cancer, cardiovascular and kidney diseases		<i>Hermis IATROU</i>	09.45-10.00	Oral Presentation	Amphiphilic polystyrene-block-poly(methoxydiethylene glycol acrylate) copolymer with thermoresponsive behaviour. The role of water in liquid to glass and coil to globule transitions		<i>Apostolos KYRITSIS</i>
					10.00-10.15	Oral Presentation	Non-isocyanate polyurethane hydrogels physically modified with POSS: thermal and hydration properties		<i>Izabela LUKASZEWSKA</i>
10.15-10.30	Oral Presentation	Complexation of anticancer Pt-drugs on Polymer containing poly(L-Histidine) studied via NMR spectroscopy		<i>Iren Georgia STAVRAKAKI</i>	10.15-10.30	Oral Presentation	Designing macromolecules on silica nanoparticle surfaces		<i>Konstantinos NTETSIKAS</i>
10.30-10.45	Oral Presentation	Multi-Epitope Nanovaccine against Leishmania Parasite		<i>Evgenia TSANAKTSIDOU</i>	10.30-10.45	Oral Presentation	Nanocellulose-based Composite Membranes for Food Packaging		<i>Veroniki BAKOLA</i>
10.45-11.00	Oral Presentation	Development of innovative drug carriers based on poly(lactic acid) for the fabrication of electrospun dressings for skin infections		<i>Maria LAZARIDOU</i>	10.45-11.00	Oral Presentation	Design and Development of New Conjugated Polymers for Applications in Active Packaging		<i>Athanasios KATSOURAS</i>
11.00-11.15	Oral Presentation	Tablets of Enteric Microencapsulated Oregano Essential Oil Powders - Evaluation and Release		<i>Ioannis PARTHENIADIS</i>	11.00-11.15	Oral Presentation	Itaconic acid polyesters as a green and tunable alternative for materials suitable for 3D printing applications		<i>Lazaros PAPADOPOULOS</i>
11.15-11.40	Lobby	Coffee Break							
Room A	Session FA2	Chairs	11.40-13.55	Speaker	Room B	Session FB2	Chairs	11.40-13.55	Speaker
		H. Iatrou & K. Velonia					D. Theodorou & A. Rissanou		
11.40-12.10	Invited Talk	3D bioprinted hydrogels for tissue engineering and regenerative medicine		<i>Maria CHATZINIKOLAIDOU</i>	11.40-12.10	Invited Talk	Polymer Nanocomposites: The Importance of Interactions on Structure, Dynamics and Properties		<i>Kiriaki CHRISOPOULOU</i>
12.10-12.40	Invited Talk	PHA biopolymers: From fermentation to biomedical applications		<i>Christos CHATZIDOUKAS</i>	12.10-12.25	Oral Presentation	Synergistic effect of graphene and multiwalled carbon nanotubes as reinforcing fillers in PDMS composites		<i>Panagiotis KETIKIS</i>

12.40-12.55	Oral Presentation	Synthetic bioresorbable antibacterial polymers – linear polyesteramines and polyesteramidoamines - synthesis and property	<i>Piotr DOBRZYNSKI</i>	12.25-12.55	Invited Talk	Computational Modeling of Polymeric Nanostructured Materials Across Scales: From Atoms to Macroscopic Properties	<i>Vagelis HARMANDARIS</i>	
12.55-13.10	Oral Presentation	Haemostatic dressings based on chitosan with improved antibacterial activity	<i>Ioanna KOUMENTANOI</i>	12.55-13.10	Oral Presentation	Geometric analysis of free and accessible volume to small penetrants in CNT-based Polymer Nanocomposites	<i>Panagiotis MERMIGKIS</i>	
13.10-13.25	Oral Presentation	Biodegradable polymer blends with bactericidal properties for use in cosmetics and dermatology	<i>Kamila LEWICKA</i>	13.10-13.25	Oral Presentation	Predicting the Structure and the Free Volume Distribution in Star Polymers via Atomistic Simulations	<i>Eirini GKOLFI</i>	
13.25-13.40	Oral Presentation	pH-sensitive materials of chitosan/chitosan modified with zwitterions designed for dental implant application	<i>Georgia MICHAILIDOU</i>	13.25-13.40	Oral Presentation	Deep Neural Networks for Predicting the Mechanical Properties of Glassy Polymer Nanocomposites	<i>Eleftherios CHRISTOFI</i>	
13.40-13.55	Oral Presentation	The Modification of the Elasticity and 3D Architecture of the Polymer Substrate to evaluate NSIP- and IPF-Derived Fibroblasts Response	<i>Svitlana TYMETSKA</i>	13.40-13.55	Oral Presentation	Accelerating the market uptake of biobased polymer nanocomposites in Europe	<i>Zoi TERZOPOULOU</i>	
13.55-14.55	Lobby	Lunch Break						
Room A	Session FA3	Chairs	14.55-16.10	Speaker	Room B	Chair	14.55-16.10	Speaker
		I. Kallitsis				A.V. Lyulin & V. Harmandaris		
14.55-15.25	Invited Talk	Hypersonic soft matter based phononic materials		<i>George FYTAS</i>	14.55-15.10	Oral Presentation	The Reversed Sequence of the Amino Acids of Rop Protein: An All-Atom Study via Molecular Dynamics Simulations and Free Energy Calculations	<i>Maria ARNITTALI</i>
					15.10-15.25	Oral Presentation	Investigating the Protein-Polymer Complex of Alpha-Synuclein and Poly(N-isopropylacrylamide) via Detailed Atomistic Simulations for Potential Parkinson's Disease Therapeutics	<i>Sisem EKTIRICI</i>
15.25-15.55	Invited Talk	How Polymers and Ions Penetrate Nanopores		<i>George FLOUDAS</i>	15.25-15.40	Oral Presentation	Remotely Activatable Self-Assembled Polymer Drug Conjugates for Targeted Therapeutics	<i>George PASPAPAKIS</i>
					15.40-15.55	Oral Presentation	Novel biodegradable and pH-sensitive zwitterionic polymers for targeted drug delivery	<i>Evi CHRISTODOULOU</i>

15.55-16.10	Oral Presentation	How Polymers of Different Architecture Penetrate Narrow Pores?	<i>Panagiotis KARDASIS</i>	15.55-16.10	Oral Presentation	Fibrillar structure and viscoelasticity of collagen-based networks	<i>Konstantina LYRONI</i>
16.10-16.35	Lobby	Coffee Break					
16.35-17.35	Room A	Elections HPS					
17.35-19.00	Lobby	Poster Session 2					

Saturday 25th November 2023

Room A	Session SA1	Chairs	09.00-11.15	Speaker	Room B	Session SB1	Chairs	09.45-11.15	Speaker
		D. Bikiaris & G. Floudas					G. Bokias & A. Anastasaki		
09.00-09.45	Keynote Talk	Nanoparticle-Induced Morphology Evolution and Property Expression in Immiscible Polymer Blend Composites: A Perspective		<i>Suprakas RAY SINHA</i>					
09.45-10.15	Invited Talk	Nano-carbon based polypropylene nanocomposites: from breathability to barrier ... a blown film extrusion process		<i>George VOYIATZIS</i>	09.45-10.15	Oral Presentation	High-performance and reprocessable epoxy-succinic acid vitrimers		<i>Christos PANAGIOTOPOULOS</i>
10.15-10.30	Oral Presentation	Thermomechanical characterisation of carbon fibre-based sandwich structure via dynamic mechanical analysis		<i>Ioannis IOANNOU</i>	10.15-10.30	Oral Presentation	Reversibly Cross-Linked HDPE		<i>Alexandra ZAMBOULIS</i>
10.30-11.00	Invited Talk	Unentangled Polystyrene: do we understand the flow of the simplest possible polymer?		<i>Dimitris VLASSOPOULOS</i>	10.30-10.45	Oral Presentation	Poly(lactic acid)-co-poly(ethylene azelate) copolyesters with recyclability, enhanced biodegradability, and mechanical performance		<i>Rafail IOANNIDIS</i>
					10.45-11.00	Oral Presentation	Unravelling the Effects of UV Aging on Physicochemical Properties of Polyesters and Polyamide: On the Way to Microplastics Formation		<i>Nina Maria AINALI</i>
11.00-11.15	Oral Presentation	Molecular Dynamics and Viscoelastic Properties of the Biobased 1,4-Polymyrcene		<i>Ioannis TZOURTZOUKLIS</i>	11.00-11.15	Oral Presentation	A novel design of mwcnt-filled tpu nanocomposites for high performance sportswear and sporting applications		<i>Chris IGWE</i>
11.15-11.40	Lobby	Coffee Break							

Room A	Session SA2	11.40-13.40	I. Tsivintzelis & Ch. Chatzidoukas	Speaker
		Chairs		
11.40-11.55	Oral Presentation	An Advanced SPVC Process Simulator: Fundamental Kinetic, Particle Size Distribution and Grain Morphology Developments		<i>Prokopios PLADIS</i>
11.55-12.10	Oral Presentation	Mathematical modeling of crosslinking kinetics and viscoelastic properties of photo-crosslinkable tyramine modified hyaluronic acid solutions using deterministic and stochastic methods		<i>Filippos KARAGEORGOS</i>
12.10-12.25	Oral Presentation	1-propanol/water mixtures exhibit polymer-like features and nano-heterogeneity		<i>Vasileios MOSCHOS</i>
12.25-12.40	Oral Presentation	Heterogeneous Local Environments in Mussel-Inspired Elastomers		<i>Marianna SPYRIDAKOU</i>
12.40-13.30	Lobby	Light Lunch Break		
13.30-14.00	Room A	Awards for oral presentations and posters		
14.00-14.30	Room A	Announcements of the HPS End of the Conference		

POSTER SESSION 1

Thursday 23rd November 2023

T1	3D-printed chitosan-based scaffolds with <i>Scutellariae baicalensis</i> extract for dental applications	PACZKOWSKA-WALENDOWSKA MAGDALENA
T2	Preliminary Investigations of the Effect of Biodegradable Electrospun Fibrous Mats in the In Vitro Germination of Cucumber Seeds	PAPAFILIPPOU PETRI
T3	Development of chitosan-based hydrogels for potential 3D printing applications	TSIRGIOTI ALKISTIS
T4	A novel approach in biodegradable nanocomposites through Biochar addition in poly(butylene succinate) polymeric matrix.	PAPADOPOULOU AIKATERINI
T5	Synthesis and Characterization of Polyanionic Liquids prepared from Novel Polymer Precursors of the A-b-B-b-C and C-b-B-b-A-b-B-b-C Types	PAPADOPOULOS GEORGIOS
T6	Coffee silverskin extracts as source of natural additives for the development of environmentally friendly polylactide films	PETALOTI ARGYRI-IOANNA
T7	Development and Characterization of Edible Packaging Materials from Expired Dairy Products	KYRIAKAKI CHRISTINA
T8	Dynamic thermomechanical properties of commercial rPET and its post-ageing behaviour	VOUVOUDI EVANGELIA
T9	Investigation on the Physical and Mechanical Properties of PLA-Based Biodegradable Polymer Composites	CHEN PEI-HUA
T10	Miscibility of microheterogeneous polymers: A case study of cellulose esters blends	TSIOPTSIAS COSTAS
T11	Investigating Crystallization in PDMAEMA-g-PEG Bottlebrush Copolymers	MARKOZANNE GEORGIA
T12	Secondary amino groups along polymer chain in non-isocyanate polyurethanes: hydration and glass transition	ŁUKASZEWSKA IZABELA
T13	Phase diagram and glassy dynamics of the bio-based polyester Poly(ethylene-2,5-furanoate) (PEF)	TZOURTZOUKLIS IOANNIS
T14	Ultrasonic Activation of Polymer-Camptothecin Conjugates for Targeted Cancer Therapy	TOUMPA DIMITRA
T15	Synthesis of PLA-PEG-PLA triblock copolymer microparticles using microfluidics technique as potential drug delivery systems	NIKOLAOS BIKIARIS
T16	Ibuprofen-loaded 3D-printed polymeric scaffolds for hard tissue engineering	LIASI GEORGIA
T17	Pterostilbene-PVP amorphous solid dispersion as effective way to improve neuroprotective activity	CIELECKA-PIONTEK JUDYTA
T18	Hierarchical levels of organization and dynamics of polypeptide copolymers produced with ROPISA	SPYRIDAKOU MARIANNA
T19	Encapsulation and release of anticancer drug & characterization of the loaded Nanoparticles [PEO-b-P(L-Histidine)]	STAVRAKAKI IREN GEORGIA
T20	Peppermint Oil Spray Dried Powders - Encapsulating Wall Composition, Particulate Characteristics and Powder Cohesiveness	PARTHENIADIS IOANNIS
T21	Macromolecular Engineering of Biocompatible Polymer Vectors for Ocular Gene Delivery	DE OLIVEIRA FERNANDO AUGUSTO
T22	Fiberization Of Polypropylene for Use as Reinforcement of Fiber-Reinforced Concrete in Industrial Applications	PORFYRIADOU GLYKERIA
T23	Amphiphilic fluoro-substituted Conjugated Polymer based on benzothiadiazole/benzoselenadiazole and thiophene	SCHIZA ANDRIANA
T24	Synthesis of Functionalized Thiophene-Based Materials Towards Cationic Conjugated Polyelectrolytes	GIANNOUSOS ACHILLEAS
T25	Synthesis of Statistical, Block and Graft Copolymers based on isocyanates via Coordination Polymerization.	MANTZARA DIMITRA
T26	Formation of Polymer Brushes Derived from Anionically Synthesized Triblock Terpolymer Systems	ARTOPOIADIS KONSTANTINOS
T27	Structural and Optical Properties of Hybrid Materials with Copolymer Matrices and Gold Nanoparticles	MANESI GKRETI MARIA
T28	Novel Immiscible Linear Triblock Copolymers with Poly(styrene) Core and Poly(dimethylsiloxane) Side Chains	TSIRKAS SPYRIDON
T29	Thermo-Responsive Biodegradable Poly(Amidoamine)s with LCST Behavior in Aqueous Media	PAPPAS GEORGIOS NIKOLAOS
T30	Conceptual Design and Economic Evaluation of Different Technologies for the Production of Nanocellulose from Lignocellulosic Biomass	PAVLOU ALEXANDROS
T31	Multiresponsive polymers based on oligo(ethylene glycol) methyl ether methacrylate and/or dialkylamino methacrylate segments	IATRIDI ZACHAROULA
T32	High molecular weight aromatic polyethers as printable emissive layer for PLEDs	ANDRIKOPOULOS KONSTANTINOS
T33	Statistical and Block Copolymers of Hexyl Isocyanate and 2-Phenylethyl Isocyanate via Coordination Polymerization. Synthesis, Characterization and Thermal Properties	KATARA AIKATERINI

T34	Synthesis of bottlebrushes by a combination of Atom Transfer Radical Polymerization and Ring Opening Metathesis Polymerization. Molecular characterization and thermal properties	MARKOU ALEXIOS
T35	Polymer-based piezoelectric scaffolds amplify osteogenic differentiation of cells following mechanical stimulation	CHATZINIKOLAIDOU MARIA
T36	Synthesis, characterization and in vitro evaluation of chitosan-fish gelatin-glycerol hydrogel membranes for biomedical applications.	KARYDIS-MESSINIS ANDREAS
T37	Ordered diblock copolymer coatings with biocidal properties	MANOURAS THEODOROS
T38	Antibacterial and cytotoxicity evaluation of aliphatic polyesteramines/amides towards their application in biomedicine and cosmetology	RYCHTER PIOTR & BARCZYNSKA-FELUSIAK RENATA
T39	Self-Assembly of Phenylalanine-Leucine, Leucine-Phenylalanine, and Cyclo(-leucine-phenylalanine) Dipeptides through Simulations and Experiments	RISSANOU ANASTASSIA
T40	Multiresponsive injectable and 3D printable alginate-based bioinks for bioapplications	PASPARAKIS GEORGE
T41	Near-Infrared Conjugated Polymer Nanoparticles Based on Indacenodithiophene and Thiadiazoloquinoxaline for Photoacoustic Imaging	NEGKA ALKMINI

POSTER SESSION 2

Friday 24th November 2023

F1	En Route to Styrene-free Bio-based Unsaturated Polyester Resins	PERIVOLIOTIS DIMITRIOS
F2	Effect of chitin nanowhiskers deacetylation on nature-mimicking interface in carbon fibre composites	ABDELLATIF ABDELMOHSEN
F3	Development of nanohybrid polymer electrolyte membranes	KADIANAKI AIKATERINI
F4	Responsive polymer nanocomposites: Effect of the pH on the structure and thermal properties	KARNIS IOANNIS
F5	Cellulose Nanocrystals Isolation Using the Steam Explosion Method	TRIANAFYLLOU ELENI
F6	PEO / MXene nanocomposites: Synthesis and Characterization	THOMOS ALEXANDROS
F7	Determining the Mechanism of Self-healing Properties Improvement in Polyurethane Nanocomposites	GIANNAKAKI EVANGELIA
F8	A circular approach for the development of GO/polymer hybrid nanocomposite membranes for environmental applications	SUBRATI MOHAMMED
F9	Preparation and Characterization of Nanocomposites Comprising of Polystyrene-b-Poly(dimethylsiloxane) and Single- and Multi- Walled Carbon Nanotube Fillers	KARTALIS IOANNIS
F10	Influence of LED irradiation on various curing heights of commercial flowable dental composites	VOUVOUDI EVANGELIA
F11	Mechanical and thermal properties optimization of PP-carbon nanotube composite drawn fibers based on surface response analysis	TSIVINTZELIS IOANNIS
F12	Industrial graphite wastes valorisation through development of novel hybrid nanomaterials with enhanced antibacterial properties	TOLIOU ILEKTRA MAGDALINI
F13	Functional PEGylated halloysite nanotubes with enhanced aqueous colloidal stability and antibacterial properties	TOLIOU ILEKTRA MAGDALINI
F14	Preparation and characterisation of HDPE/Tannic acid composites	SAMIOTAKI CHRISTINA
F15	Multilayer Graphene Oxide-based Membranes for Reverse Osmosis Water Desalination	KARATASOS KONSTANTINOS
F16	Bottom-up Transient Time Models in Coarse-graining Molecular Systems	BAXEVANI GEORGIA
F17	Development of superhydrophobic and water-repellent polymer films by utilizing nanohybrid coatings	KRASANAKIS FANOURIOS
F18	Non-plant-based biomass valorization Exploring the application of yeast oils as sustainable raw materials for the synthesis of alkyd resins	STAMATOPOULOS IOANNIS
F19	Solid State Polymerization as an upcycling route towards 100% recycled PET textile	PANAGIOTOPOULOS CHRISTOS
F20	PET and PLA compatibilization from recycled plastic bottles: Investigating the impact of clay content on the morphological, mechanical, and thermal properties of their blends	BELIOKA MARIA PARASKEVI

F21	Benchmarking practices for the recycling of PVB interlayer film in laminated glass applications	NIKITAKOS VASILEIOS
F22	Determination of thermal degradation paths of liquid crystalline polyurethane/POSS nanocomposites by Py-GC/MS and TGA-FTIR techniques	BUKOWCZAN ARTUR
F23	Sustainable Waste Management-Enhancing Recycling of Multi-material, Multi-layer Waste by using 'Green' Solvents	LOUKODIMOU ADAMANTINI
F24	Monodisperse polymer nanocapsules of tailored size, shell thickness and rigidity via the synthesis of dense polymer brushes on silica colloids	VASILAKI EVANGELIA
F25	Amphiphilic Statistical Copolymers of N-Vinylpyrrolidone and 2-Chloroethyl Vinyl Ether via Radical RAFT Polymerization. Synthesis, Characterization and Self-Assembly Behaviour in Aqueous Solutions	PLACHOURAS NIKOLAOS
F26	Development of Non-halogenated Flame-retardant Additives and Polymers	AVDELIODI EFTERPI
F27	Water-based CNTs-polymer composite monolayer membranes with humidity stimulus-responses	TZOUMANI IOANNA
F28	Assessment of the stab resistance properties of hybrid composite materials for soft body armour applications	TZOUMANI IOANNA
F29	Cellulose acetate-ionic liquid blends as membranes for efficient CO ₂ recovery from flue gas	KONTOS GIANNIS
F30	Transition between wetting states on slippery surfaces	TZITZILIS DIMITRIOS
F31	Graphene oxide (GO)-modified nanofiltration membranes using ionic liquid and pristine GO in thin film nanocomposites (TFNC)	PANAGIOTOU FOTIOS
F32	Simple and efficient synthesis of novel fluorinated aromatic copolymers for CO ₂ gas separation	NIKOLOPOULOU ATHENA
F33	Preparation of Macroporous PolyHIPEs containing Lithium-Ion Sieves for the Potential Selective Recovery of Lithium Ions	TSOLKA EFTYCHIA
F34	Cycloaliphatic quaternary ammonium functionalized poly (oxindole biphenyl) based Anion Exchange membranes for Alkaline Water Electrolysis: Stability and Performance	GJOSHI SARA
F35	Sorption properties of volatile organic compounds in nanoporous crystalline poly(2,6-dimethyl-1,4-phenylene) oxide-poly(styrene) Fibers	PATHAK MOHIT SUNIL
F36	Topology Sorting: Separation of Linear and Star Chains of Binary Blends by Imbibition and Adsorption in Nanopores.	KARDASIS PANAGIOTIS
F37	Blends of Recycled Poly(ethylene terephthalate) and Biobased Poly(alkylene 2,5-furandicarboxylate)s	PAPAGEORGIU GEORGE
F38	By-product of the coffee roasting process as a renewable additive for the production of sustainable poly(lactic acid) biocomposites from a circular economy perspective	PETALOTI ARGYRI-IOANNA
F39	Synthesis and characterisation of Polycaprolactone diol-based polyurethanes	BALLA EVANGELIA
F40	Phase state and Dynamics of Biobased Thermoplastic Elastomers derived from Citronellyl Glycidyl Ether, CO ₂ and Polylactide	FOTARAS NIKOLAOS
F41	Nanocellulosic materials as bioadditives in green food packaging applications	VOYIATZIS GEORGE
F42	Development of NIPU coatings from bio-based cyclic carbonates and polyamines	PAPADOPOULOU-FERMELI NEFELI

