



We wish to see you at  
**Polymer Connect-2024**



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TENTATIVE PROGRAM

4<sup>th</sup> International Conference on  
**Advanced Polymer Science  
and Engineering**

23-25 October, 2023 | Valencia, Spain | Hybrid



**Barcelo Valencia HOTEL**  
Av. de Franca, 11, 46023 Valencia,  
Valencia, Spain



**Timezone:**  
GMT +2 CEST (Spain Time)

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Monday, Oct 23, 2023

Day 1

08:15 Onsite Registrations

08:50 Opening Remarks and Introduction

09:00-11:00

Keynote Session

Water-Activated Carbon-Capture: From Nanostructured to Hybrid-Integrated Membranes

*Richard Spontak*, North Carolina State University, United States

ChAgG-PCL/PVP Electrospun Fibers and their Potential Application as Wound Dressing

*Luis Jesus Villarreal Gome*, Autonomous University of Baja California, Mexico

Controlled-release Protein-based Matrices from Agrowastes: A Novel Method of Fertilization

*Mercedes Jimenez Rosado*, University of Seville, Seville, Spain

Coffee Break

11:20-13:00 | Session 1 | Each Talk (15+5) Minutes

**Polymer Engineering for Biomedical Applications**

Changes in Ion Concentrations Upon the Binding of Short Polyelectrolytes on Phospholipid Bilayers: Computer Simulation Study

*Karel Prochazka*, Charles University, Czech Republic

Development of PVA Electrospun Nanofibers for Fabrication of Bacteriological Swab

*Paola Nitti*, University of salento, Italy

Preparation and Characterization of a Biodegradable Hydrogel for Female Hygiene Products

*Vimla Paul*, Durban University of Technology, South Africa

Bio-Inspired Polyamines: Synthesis, Self-Organization and Delivery Systems

*Vadim Annenkov*, Limnological Institute Siberian Branch of Russian Academy of Sciences, Russian Federation

An Advanced Approach for Preparation of Spherical Nucleic Acids with Polymer or Hybrid Polymer/Phospholipid Cores

*Emi Haladjova*, Bulgarian Academy of Sciences, Bulgaria

Original Synthesis of Novel Amphiphilic Polymeric Systems by Initiator-free Thiol-ene "Click" Coupling Reactions

*Natalia Toncheva-Moncheva*, Bulgarian Academy of Sciences, Bulgaria

Comparison of the friction behaviour of textured surfaces between different polymer materials

*Isabela da Conceicao Evangelista*, University College of Dublin, Ireland

Lunch

14:00-18:00 | Session 2 | Each Talk (15+5) Minutes

**Advances in Polymer Composites & Colloids Research**

**Advanced Polymer Materials Research**

Covalent Adaptable Networks as Biobased Binders in Composites

*Julio Vidal*, Aitiip Centro Tecnológico, Spain

Thermoplastic Composites with Plasma Treated Polyethylene Matrix

*Petr Spatenka*, Czech Technical University in Prague, Czech Republic

Effects of UV and Atmospheric Plasma Treatments on Fracture Toughness of Glass Fibre Reinforced Thermoplastic Composites

*Alojz Ivankovic*, *University College Dublin, Ireland*

Evolution of Fused-Filament-PLA Properties Due to Physical Aging

*Jaime Orellana-Barrasa*, *Universidad Politecnica de Madrid, Spain*

Fabrication and Characterization of Hydrogen Peroxide and Thymol Loaded PVA/PVP Hydrogel Coatings as a Novel Anti-mold Surface for Hay Protection

*Eyal Malka*, *Bar Ilan University/Institute for Nanotechnology and Advanced Materials (BINA), Israel*

Electrospun Polymer Materials with Targeted Design for Pollutant Removal

*Olya Stoilova*, *Bulgarian Academy of Sciences, Bulgaria*

Alcoholysis of Poly Bisphenol A Carbonate: Computational Investigation of Environmental-Friendly, Economic, and Effective way to Degrade Plastics

*Shiru Lin*, *Texas Woman's University, USA*

Effect of fiber loading on thermal, morphological properties of Biodegradable Polybutylene Succinate/waste natural fiber Composites

*Mohau Phiri*, *Vaal University of Technology, South Africa*

Special aspects of fatigue testing for composites

*Aleksandr Elkin*, *Skoltech, Russian Federation*

Extremely Stretchable Sustainable Elastomeric Conductor for Printed Soft Electronics

*Gurunathan Thangavel*, *Technology Innovation Institute, United Arab Emirates*

Diffusion Phenomena in Biodegradable Composites: From Barrier Packaging to Electrospun Fibrils for Drug Delivery

*Alexey Iordanskii*, *Semenov Research Center of Chemical Physics, Russian Federation*

Rheological Properties of Aqueous Graphene Oxide/TEMPO-oxidized Cellulose Nanofibrils Suspensions

*Iris Malnaric*, *University of Ljubljana, Slovenia*

Rheology and Reactivity of Different Acid Systems with Carbonate Rocks

*Bader Alharbi*, *Aramco, Saudi Arabia*

**Tuesday, Oct 24, 2023**

**Day 2**

**08:50 Day 2 Opening Remarks**

**09:00-10:40**

**Keynote Session**

Effect of Polymer Interlayers in Perovskite Solar Cells and Memory Devices

*Antonio Guerrero*, *Institute of Advanced Materials (INAM), Spain*

Chemical Recycling of Polyolefins: An Approach to Reduce Power Consumption

*Alberto Garcia Penas*, *UC3M, Spain*

**10:40-11:10**

**Invited Talk**

Liposome Serum Development Utilizing Hydrolyzed Collagen from Seafood Industry By-product for Facial Nourishment

*Thanaporn Amnuakitt*, *Prince of Songkla University, Thailand*

**Coffee Break**

11:30-13:00 | Session 3 | Each Talk (15+5) Minutes

**Sessions: Polymers in Food Industry  
Polymers Recycling & Sustainability**

Covalent Immobilization of Glucoamylase from *Aspergillus Niger* on Epoxy Activated Supports

*Yakup Aslan*, *Siirt University, Turkey*

Development of Specific & High Affinity Polymer-binding Peptides for Microplastic Identification and for Enhanced Enzymatic Degradation

*Sonja Harter*, *Helmholtz Institute Freiberg for Resource Technology, Germany*

Vacuum Pyrolysis of Waste Plastics into High-Purity Monomers Using Spirit Lamp Flame for Convenient Chemical Recycling

*Eri Yoshida*, *Toyohashi University of Technology, Japan*

Compatibilization of PLA/Posidonia Composites with Cinnamon Derived Plasticizer by Means of Reactive Extrusion

*Juan Ivorra Martinez*, *Universitat Politècnica de València, Spain*

Development of bio-based Derived Thermosets Derived from Acrylated Epoxidized Soybean Oil (AESO) and Environmentally Friendly Cinnamates

*Jaume Gomez Caturla*, *Universitat Politècnica de València, Spain*

Teaching Sustainability Using 3D Printing in Engineering Education: An Observational Study

*Thanh Tuan To*, *Swinburne University of Technology/School of Design and Architecture, Australia*

Paving the Way to Sustainability : Exploring the Synthesis of Ligninderived Diisocyanates for Bio-Based Polyurethanes Elaboration

*Alienor DELAVARDE*, *Institute Charles Gerhardt Montpellier, France*

Polymers Tribology in Food Packaging Equipment

*Rossi Silvia*, *Tetra Pak Packaging Solutions Spa, Italy*

The Plastics Paradox

*Sibele Cestari*, *Innovation in Polymer Engineering (PIEP), Portugal*

Re-valorizing Industrial Biogenic Waste – Sustainable Substitutes for Fossil-based Polymers

*Marius Wolf*, *Fraunhofer IWKS, Germany*

Compatibilization Solution for Enhancing Plastic Waste Content in Bitumen

*Mateusz Malus*, *Gdansk University of Technology, Poland*

## Lunch

14:00-16:00 | Session 4 | Each Talk (15+5) Minutes

**Sessions: Polymers for Energy Storage and Conversion  
Polymer Materials for Separation and Purification Processes**

Semiconductor Wide Band Gap Cd<sub>1-x</sub>BexTe Crystals-based Dye-Sensitized Solar Cells

*Diksha Singh*, *Nicolaus Copernicus University, Poland*

Magnetoactive Elastomer Lamellar Surfaces: Frustration, Optical Properties and Object Transport

*Gasper Kokot*, *Jozef Stefan Institute, Slovenia*

Functionalisation of lignocellulosic fibres for the fabrication of porous SiC(O) ceramics from preceramic precursors

*Romain Lucas-Roper*, *IRCER, France*

Hybrid bioactive materials for bone tissue engineering

*Khalil El Mabrouk*, *Euromed University of Fes, Morocco*

*More talks to be announced in the session...*

## Poster Presentation

Preparation and Use of Free and Entrapped Hollow Functional SiO<sub>2</sub> Particles

*Yeela Elbaz, Bar Ilan University/Institute for Nanotechnology and Advanced Materials (BINA), Israel*

Effects of Graphene on Bone Cement (PMMA-based) Curing Times

*Jaime Orellana-Barrasa, Universidad Politecnica de Madrid, Spain*

Polymer coated Silicone Urinary Catheters with Anti Fouling Properties

*Jan Tejbrant, Cytacost AB, Sweden*

Smart Hydrophilic Polymers with Multiple Sensitivity

*Elena Danilovtseva, Linnological Institute Siberian Branch of Russian Academy of Sciences, Russian Federation*

Oxepine-Based p-Conjugated Ladder Polymer

*Nathan Man-Wai Wu, Massachusetts Institute of Technology, United States*

Birch Outer Bark Extraction Residue as a Feedstock to Replace Synthetic Polymer Constituents

*Janis Rizikovs, Latvian State Institute of Wood Chemistry, Latvia*

Ciprofloxacin Loaded Mixed Polymeric Micelles as Effective Antibiofilm Agents

*Emi Haladjova, Bulgarian Academy of Sciences, Bulgaria*

Preparation of Novel Polymeric Nanocarriers for Immobilization and Controlled Delivery of the Proteolytic Enzyme Serratiopeptidase

*Katya Kamenova-Stoyanova, Bulgarian Academy of Sciences, Bulgaria*

Design of Nanosized Drug Delivery Systems: Surface Modification of Niosomes by Amphiphilic (Co)Polymers

*Rumena Stancheva, Bulgarian Academy of Sciences, Bulgaria*

Polymeric Binders for Metal Injection Molding: Simulation Studies

*Isabel Lado-Tourino, Universidad Europea de Madrid, Spain*

A Study on the Bonding Performance of Steel-Polymer Hybrid Materials under Vehicle Driving Temperature Conditions

*Jinho Park, Korea Automotive Technology Institute, Korea (South)*

A Study on Miscibility Properties of Polyacrylonitrile Blending Films with Biodegradable Polymer, Shellac

*Beom-Gon Cho, Chemical Materials R&D Department/Korea Automotive Technology Institute, Korea (South)*

Preparation of Polyimide/Silica Sol Nanocomposite Coatings with High Transparency and Self-cleaning Properties

*Yun-Je Choi, Yonsei University Mirae Campus, Korea (South)*

The Effects of Different Physical Fields on Swelling Kinetics of PMAA-LTA Zeolite Composite Hydrogel Under Controlled Isothermal Conditions

*Jelena Jovanovic, Institute for General and Physical Chemistry, Serbia*

Direct In-situ polymerization to Produce Polycaprolactone/Montmorillonite Nanocomposite

*Amine Harrane, Department of Chemistry FSEI, Algeria*

Production of Low-Density Nanocellular Foam Based on PMMA/PEBAX Blends

*Nigus Maregu Demewoz, National Taiwan University of Science and Technology, Taiwan*

Natural and Recyclable Alginate Hydrogels as Extracting Media for Recovering Valuable metals of Spent Lithium-ion Batteries from a Deep Eutectic Solvent

*Yifeng Wang, BCmaterials, Spain*

Insight and Comparison of Property Improvement in LTA and MFI Zeolite Reinforced Poly(methacrylic acid) Highly Concentrated Composite Hydrogels

*Vesna Panic, University of Belgrade, Innovation Center of the Faculty of Technology and Metallurgy, Yugoslavia*

New Perspectives for ORR Electrocatalysts: Challenges and Opportunities of Graphene-based Materials

*Adriana Marinoiu, ICSI Rm Valcea, Romania*

Amine Grafted Poly(Acrylic-maleic) for Stainless Steel Corrosion Inhibition

*Bader Alharbi, Aramco, Saudi Arabia*

Valorization of Plastic and Cork Wastes in the Production of New Composite Materials  
*Svetlana Pełitckaia*, University of Corsica, France

Use of Peruvian Native Potato Starch (Kulli Papa) in the Production of Biodegradable Films  
*Leandro Neodini Remedio*, University of Engineering and Technology - UTEC (Lima - Peru), Peru

*More posters to be added...*

Wednesday, Oct 25, 2023

Day 3

08:50 Day 3 Opening Remarks

09:00-13:00 | Session 5 | Each Talk (15+5) Minutes

Sessions: **Advances in Polymer Synthesis and Characterization**  
**Polymer for Electronics and Flexible Devices**

Measuring Structural Composite Panel Temperature Exposed to a Flame

*Fabien Dupont*, Telops, Canada

PHBV Production by *Halofera* Mediterranean Cell Factory Through Agricultural Wastes Valorization

*Maria Nicolas Liza*, Cectec biotechnology, Spain

Nanoengineering Carbon Dots for Highly Efficient Cancer Photodynamic Therapy and Bioimaging

*Ana C. Almeida*, Campus Universitario de Santiago, Portugal

Coffee Break

New Biodegradable Bio-plastic Film Developed from Cotton Gin Trash (A Byproduct of Cotton Industry)

*Renuka Dhandapani*, Cotton Incorporated, United States

Renewable Polysaccharides as supports for metal catalysis in C-C coupling reactions

*Oshrat Ontman*, Shamoon College of Engineering, Israel

An Insight Into Ziegler–Natta Catalyst Active Site Distribution for Polyolefins: Application of Jitter Differential Evolution

*Harshad Ramdas Patil*, Reliance Industries Limited, India

Results of the castor oil- based polyurethane development in the absorption of impacts

*Graziella Trovati*, University of Sao Paulo, Brazil

Precision Injection Moulding of Polymer Micro-components: Determining Heat Transfer Coefficient and Process Simulation

*Michael D. Gilchrist*, University College Dublin, Ireland

Innovative Catalysts Based on Nitrogen-doped Graphene Materials

*Adriana Marinoiu*, ICSI Rm Valcea, Romania

Proposing a Framework for The Digital Transformation Maturity of Electronic Sports Businesses in Developing Countries

*Arman Heidari*, University of Kurdistan, Iran

Lunch

Online Session

**Keynote Talk:** Moisture Kinetics and Long-Term Durability of Ambient Cured Polymer Composites

*Vistasp M. Karbhari*, The University of Texas at Arlington, United States

**Plenary Talk:** Recent Progress in Polyurethanes using Renewable Resources

*Ram K Gupta*, Pittsburg State University, United States

**Plenary Talk:** Surface Modification of Biomimetic Moth Eye-like Patterned Polymer Films by Functional Materials via Interfacial Reaction

*Do Sung Huh*, Inje University, South Korea

**Oral Presentation:** E7 Nematic Liquid Crystal Encapsulated in a Polymeric Photonic Crystal  
*Rusen Edina*, *University Politehnica Bucharest, Romania*

**Oral Presentation:** Oxygen Scavenger and Antioxidant LDPE/EVOH/PET-Based Films Containing  $\beta$ -Carotene Intended for Fried Peanuts (*Arachis hypogaea* L.) Packaging: Pilot Scale Processing and Validation Studies  
*Ana Beltran Sanahuja*, *University of Alicante, Spain*

**Oral Presentation:** Innovative Approach for Testing and Describing Phenomena of the Cooperation of Biodegradable Superabsorbent Polymers with the Soil  
*Jakub Misiewicz*, *Wroclaw University of Environmental and Life Sciences, Poland*

**Oral Presentation:** Poloxamer-407-induced Model of Triglyceridemia  
*Tatiana A. Korolenko*, *University of Missouri, Russia*

**Oral Presentation:** Applications of Polymers to Help Reduce Water Pollution from Synthetic Dyes  
*Januka Budhathoki-Uprety*, *North Carolina State University, United States*

**Oral Presentation:** A Metamaterial Absorber for Energy Harvesting and Specific Absorption Rate Applications in 28 GHz 5G Band  
*Buket Akin*, *Turkish Aerospace, Turkey*

**Oral Presentation:** Approach to Fool Proof Selectivity of Synthetic Analogues of Biological Receptors (MIPs)  
*Meenakshi Singh*, *Banaras Hindu University, India*

**Oral Presentation:** The Impact of Different Inorganic Fillers on the Thermal Conductivity of Crosslinked Polytartaric Acid  
*Alexandrina Nan*, *Institute for Research and Development of Isotopic and Molecular Technologies, Romania*

## Presentations Yet to be Confirmed...

Structure-Property Correlation in Sustainable Polymers and Polymer Nanocomposites  
*SURESH KI*, *CSIR-National Institute for Interdisciplinary Science & Technology, India*

Characterization of PEHD Based Biocomposites  
*Mohammed Zighed*, *Mhamad Bougara University, Algeria*

Strengthening of Corroded Beams in Shear by Using Carbon Fiber-Reinforced Polymer  
*Vedang Patil*, *University of Illinois Urbana Champaign, United States*

Constitutive Models of Polyamide PA6 and Polypropylene (PP) and their Blends Based on Experimental Data Resulted from Tensile Tests  
*George Ghiocel Ojoc*, *University "Dunarea de Jos", Romania*

Wave Dispersion Behaviors of Multi-Scale CNT/Glass Fiber/Polymer Nanocomposite Laminated Plates  
*Ali Dabbagh*, *University of Tehran, Iran*

Polymers Manufacturing Optimization Using Taguchi-Gray Methodology for Oil and Gas Component Fabrication  
*Meshal Alsaiari*, *Saudi Aramco, Saudi Arabia*

Renewable Polysaccharides as Supports for Metal Catalysis in C-C Coupling Reactions  
*Oshrat Ontman*, *Shamoon College of Engineering, Israel*

Self-healing Capacity Assessment of Cracked Slag Modified Concrete Under Different Re-curing Conditions  
*Fereydoon Zeinali*, *Islamic Azad University, Iran*

Research About the Quality of the Final Polyamide Parts of the Selective Laser Sintering Process  
*Yaagoubi Hanane*, *ENSAM RABAT, Morocco*



Modification of Cellulose by Allylation and Crosslinking with Different Silanes and Siloxanes

*Nadia Anter*, *Matériaux et Catalyse beni mella, Morocco*

Study of the Efficiency of a Nanofluid-Based Direct Absorption Solar Collector

*Ilya Manzhula*, *CC FEB RAS, Russian Federation*

Selective Hydrogenation of Phenylacetylene to Styrene and Acetylene to Ethylene Over Metal-free Mesoporous Carbon Nitride

*Vagif Akhmedov*, *M. Nagiyev Institute of Catalysis and Inorganic Chemistry of NASA Baku, Azerbaijan*

Reactive Polymers and Polymer Matrices for Synthesis of Mineral Nanocrystals and In-situ Obtaining Nanocomposites

*Viktor Tokarev*, *Lviv Polytechnic National University, Ukraine*

Different Thermal Treatments Processing Parameters to Produce Polyacrylonitrile-based Carbon Nanofibers and Carbon (Micro) Fibers

*Shahram Arbab*, *Amirkabir University of Technology, Iran*

Natural Fiber Resources and their Possibilities from West Bengal, India

*Amal Kumar Mondal*, *Vidyasagar University, India*

Synthetic Polymers/ Polymer Synthesis and Characterization

*Mridusmita Barooah*, *National Institute of Technology(NIT), India*

Ice Adhesion Reducing Amphiphilic Poly (Ionic Liquid)-based Surfaces

*Zahra Mossayebi*, *University of Melbourne, Australia*

Removal of Volatile Organic Compounds and Odorous Compounds for Multi-layer Packaging Recyclates Using Heated Air Purging

*Pragti Saini*, *IIT Roorkee, India*

Membrane Processes in the Edible Oil Refining Industry, Powerful Tools for Rational, Clean and Sustainable Production

*Miloudi HLAIBI*, *Hassan II University of Casablanca, Morocco*

Formulation Development of Injectable Hydrogel as a Drug Delivery System for Cervical Cancer Treatment

*Karuna Nagula*, *Parul Institute of Pharmacy & Research Parul University, India*

Novel Conducting Polymer Biointerfaces

*Jadranka Travas-Sejdic*, *The University of Auckland, New Zealand*

Cationic Antibacterial Polymers as Antibiotic Replacement, Adjuvant and Antibiofilm Agents, and for Device Applications

*Mary Chan-Park*, *NTU, Singapore*

Star-shaped Multi-Responsive Molecular Materials for Controlled Drug Release

*Sanjib Banerjee*, *IIT Bhilai, India*

Synthesis of Alginate Nanogels with Polyvalent 3D Transition Metal Cations: Applications in Urease Immobilization

*Abhishek Saxena*, *Hanyang University, India*

Rheological Properties of Aqueous Graphene Oxide/TEMPO-oxidized Cellulose Nanofibrils Suspensions

*Iris Malnaric*, *University of Ljubljana, Slovenia*

The Uses of CO<sub>2</sub> for Sustainable Polymer Synthesis

*Sudip Bhattacharjee*, *Indian Association for the Cultivation of Science, India*

pH-tunable and pH-responsive Polybenzimidazole (PBI) Nanofiltration Membranes for Li<sup>+</sup>/Mg<sup>2+</sup> Separation  
*Owen Setiawan*, National Taiwan University of Science and Technology, Taiwan

Aramid Fabrics as Main Part of Ballistic Proof Vests. Case Study on Twaron Fabrics Impacted with .357 Projectile  
*Lorena Deleanu*, University "Dunarea de Jos", Romania

Processing of Low Density with high Specific Properties of HGM Filled Epoxy - Syntactic Foam Composites for Marine Applications  
*Olusegun Adigun Afolabi*, Durban University of Technology, South Africa

Damage Analysis of Glass/Epoxy Composite on Varying the Matrix Weight Fraction under Low Velocity Impact & Flexural Loading  
*Amit Kumar*, DRDO, India

Enhancing Mechanical Properties through Jute Fabric Reinforcement in Poly(Lactic Acid) Composites  
*Bharani Murugesan*, K.S.Rangasamy College of Technology, India

Electro-synthesis of free-standing MoS<sub>2</sub>-Polymer films at the Liquid | Liquid Interface  
*Hussain Al Nasser*, University of Manchester, United Kingdom

Functional Nanofibers with Embedded Nanoparticles  
*Lei Zhai*, University of Central Florida, United States

Anisotropic Optical Properties' Investigation of Uniaxial Transparent Semicrystalline Stretched Polymers  
*Yassine Makhoulouka*, American College of the Middle East, Kuwait

Relaxation Dynamics in Poly(Propylene Glycol) Mono Butyl Ether  
*Lokendra P. Singh*, Madanapalle Institute of Technology & Science, India

Membrane Processes Powerful Tools for the Extraction and Recovery of the Emerging Pollutants from Contaminated Effluents.  
*Miloudi Hlaibi*, Hassan II University of Casablanca, Morocco

A Facile Synthesis of Derivatives of Tetraphenylcyclopentadienone and Dendritic Polymer via Symmetrical Functionalization of 2,5-diaryl-3,4-  
*Syeda Shaista Gillani*, Lahore Garrison University, Pakistan

Effect of Carbon Spacer Length on the Antibacterial Properties of Zwitterionic Poly(Sulfobetaine) Type Copolymeric Brushes and their Application in Wound  
*Shaifali Dhingra*, Saan Global Ltd, India

Fracture Load of Ultrathin Occlusal Veneers: Effect of Thickness and Surface Conditioning  
*Maged Zahran*, Mansoura University, Egypt

Unveiling the CO<sub>2</sub> Affinity of Tyrosine and Phenylalanine Amino Acids: Experimental Insights from Grafted Chitosan Membranes  
*Aviti Katere*, Indian Institute of Technology Guwahati, India

Inclusion Membranes for the Facilitated Extraction and Recovery of Co (II) and Ni(II) ions Form Acid Medium  
*Zakaria Habibi*, University Hassan II, Morocco

Development of Alginate based Antimicrobial Hemostatic Dressing  
*Ankita Sharma*, IIT Delhi, India

## Poster Presentation

Self-healable and Super-Stretchable Conductive Elastomeric Nanocomposites for Efficient Thermal Management Characteristics and Electromagnetic  
*Palash Das, IIT Kharagpur, India*

Tailored Distribution of 1D Nanoparticles in Co-continuous EMA/TPO Flexible Polymeric Blends as Emerging Materials for Suppressing Electromagnetic  
*Ankur katheria, IIT Kharagpur, India*

Core-shell Untra-hyperbranched Polyglycidol@PEI as Hydraulic Fracturing Fluid Crosslinkers  
*Wengang Li, Saudi Aramco, Saudi Arabia*

Effects of Polymer Chain Length on the Rheological Behavior of Star-shaped Diblock Poly(Amino Acids)  
*Daniel Jose da Silva, University of Sao Paulo, Brazil*

Pickering Emulsions of Melaleuca Alternifolia Essential Oil, Stabilized With Cellulose Nanofibrils, With Antimicrobial Properties and Sars-Cov-2  
*Greicielle Da Silva Ferreira, universidade federal do ABC, Brazil*

Analysis of Rubber Composition of Tire Wear Particles Generated in a Parking Building  
*Eunji Chae, Sejong University, Korea (South)*

More Tea, Less Plastic: Vanillin Cross-linked Chitosan Film with Controlled Release of Green Tea Polyphenols for Active Food Packaging  
*Jessica Westlake, University of Bath, United Kingdom*

Protein Patterning on Microtextured Polymeric Nano-brush Templates Obtained by Nanosecond Fibre Laser  
*Meenakshi Verma, IIT DELHI - DMSE, India*

Applications of Gold Nanoparticles-Pluronic Using UV-Accelerated Synthesis  
*Aline Santos, University of Brasilia, Brazil*

Assessing the Adverse Impacts of Biodegradable Plastic Bags: Heavy Metals and Radionuclides Considerations  
*Ahmed Mindil, University of Jeddah, Saudi Arabia*

Recycling and Refund of PET and Aluminum Packaging – The REAP Project  
*Sara Magalhaes da Silva, Universidade de Aveiro, Portugal*

Effect of Recycling on the Mechanical, Thermal and Rheological Properties of Polypropylene/Carbon Nanotube Composites  
*Peter Gerse, Neumann von John University, Hungary*

Valorization of Marine Residues for Textile Application  
*Sandra, PIEP, Portugal*

Influence of Expanded Graphite on Fire Hazard Parameters Composites of EPDM Rubber  
*Przemyslaw Rybinski, Jan Kochanowski University, Poland*

**\* Tentative Program Is Subjected to Change**