

## 6<sup>th</sup> International Conference on **Polymer Science and Nanotechnology**

Day 1 - June 29, 2023

**Hall Name: Olimpic 2**

8.30 - 8.45 Registration

8.45 - 9.00 Introduction

### Keynote Presentations

9.00 - 9.45 Engineering of Giant Permittivity Dielectrics Based on Strontium Titanate  
**Oleksandr Tkach**, University of Aveiro, Portugal

### Oral Presentations

Session Chair **Marcin Struszczyk**, Institute of Security Technology Moratex, Poland

Session Chair **Sanboh Lee**, National Tsing Hua University, Taiwan

Sessions:

Materials Science and Engineering | Polymers & Biopolymers | Nano Materials and Nanotechnology | Nanoparticles and Advanced Nanotechnology | 3D Printing and Additive Manufacturing | Tribology and Surface Engineering | Mechanical and Civil Engineering | Functional Nano materials | Polymer recycling | Polymer Engineering | Composite, Coating and Ceramic Materials

9.45 - 10.15 Hydrogen Embrittlement of Iron  
**Aynour Khosravi**, Universite de Montreal, Canada

### Group Photo (10.15 - 10.45)

### Networks & Refreshments 10.45 - 11.15 @ Rocallis

11.15 - 11.45 The Use of Hybrid Ag/Se Nanofiller to Improve the Structural, Thermal, Electrical Properties and Antibacterial Activity of PVA/SA Blend for Electrochemical  
**Aisha Albalawi**, Tabuk university, Saudi Arabia

11.45 - 12.15 Novel Sensitive Platform toward Thiram Pesticide Based on GO:WS2/SPCE  
**Khoulood Abid**, University of Messina, Italy

12.15 - 12.45 Experimental Investigation of the Effect of Fiber Orientation on Tribological Properties of Additively Manufactured Continuous CFRP Composites  
**Dineshsingh Thakur**, Defence Institute of Advanced Technology, India

12.45 - 13.15 Room Temperature *In-situ* Growth of Hierarchical Phytantriol Supported Silver Nanoparticles on Copper: Structural, Optical and Antimicrobial Characteristics  
**Nisrin Alnaim**, King Faisal University, Saudi Arabia

### Lunch 13:15 - 14.00 @ Restaurant

14.00 - 14.30 Biosynthesized Nanomaterial for Global Farming  
**Indira Rathore**, Indian Council of Agricultural Research, India

14.30 - 15.00 Ionic Liquids for Agricultural and Nanotechnological Purposes  
**Joanna Feder Kubis**, Wroclaw University of Science and Technology, Poland

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15.00 - 15.30 *Modified Carbon Coatings for Medical Applications*  
**Damion Batory**, Department of Vehicles and Fundamentals of Machine Design, Lodz University of Technology, Poland

15.30 - 16.00 *Automated Contrast Calculation and Non-Linear Fitting for Defect Quantification in Infrared Thermography*  
**Alexey Moskovchenko**, University of West Bohemia, Czech Republic

Networks & Refreshments 16.00 - 16.30 @ Rocallis

### Poster Presentations

PP-01 *The Relation of Yarn and Woven Fabric Conditioned by the Abrasion Resistance*  
**Ivana Schwarz**, University of Zagreb, Croatia

PP-02 *Novel Blast Protection of On-Earth Steel Pipes Using Meta-Material Layout*  
**Mitliadis Kontogeorgos**, National Technical University of Athens & RINA Consulting S.p.A, Greece

PP-03 *Acrylic Resins Utilization for Denture Base*  
**Bedrane Abdessalem**, Abou Bekr Belkaid University Tlemcen, Algeria

PP-04 *On the Way to Sustainable Waste Management: Enhancing Recycling of Multi-material Waste using 'Green' Solvents*  
**Adamantini Loukodimou**, University of Leicester, United Kingdom

Day 1 Concludes followed by Awards Ceremony

## 6<sup>th</sup> International Conference on **Polymer Science and Nanotechnology**

Day 2- June 30, 2023

Hall Name: **Olimpic 2**

Keynote Presentation

10.00 - 10.45 Creep and Recovery Behavior of Poly(methylmethacrylate)/Graphene Composites  
**Prof. Sanboh Lee**, National Tsing Hua University Taiwan

Oral Presentations

Session Chair **Damion Batory**, Lodz University of Technology, Poland

Session Chair **Indira Rathore**, Indian Council of Agricultural Research, India

Sessions

Nano chemistry concepts | Materials Science and Engineering | Nano Materials and Nanotechnology | Polymer Engineering | Nanoscience and Technology | Biomaterials and Medical Devices | Carbon Nanotubes | Composite, Coating and Ceramic Materials | Biomedical Engineering | Polymer for drug delivery

10.45 - 11.15 Hybrid BN and SiC Reinforced Silicone Polymer Composites with Enhanced Thermal Conductivity  
**Hongnan Zhang**, University of Nottingham, United Kingdom

11.15 - 11.45 Advanced Design of the Advanced Medical Devices  
**Marcin.H. Struszczyk**, Instytut Technologii Bezpieczeństwa Moratex, Poland

Networks & Refreshments 11:45 - 12:00 @ Rocallis

12.00 - 12.30 Analysis of Ions Irradiated Nanowires for Optoelectronic Devices  
**Shehla Honey**, University of Okara, Pakistan

12.30 - 13.00 The Effect of Zirconium Insertion on the Physical, Chemical and Biological Properties of 45S5 Bioglass for Dental Implants  
**Imen Hammami**, Aveiro University, Portugal

13.00 - 13.30 Current Progress on the Formation of Bioactive Ionogels as Platform for Novel Hierarchical Materials  
**John Vincent Tumaneng**, Wroclaw University of Science and Technology, Poland

Lunch 13:30 - 14.30 @ Restaurant

14.30 - 15.00 Effect of Nitrogen and Zinc Nanofertilizer with the Organic Farming Practices on Cereal and Oil Seed Crops  
**Tarunendu Singh**, Indian Farmers Fertiliser Cooperative Limited, India

15.00 - 15.30 Carbon Nanotube Deposited Long Period Grating Sensor for Surrounding Refractive Index Sensing  
**Namita Sahoo**, Aston University, United Kingdom

15.30 - 16.00 Ionic Liquids for Agricultural and Nanotechnological Purposes  
**Malgorzata Policht**, Wroclaw University of Science and Technology, Poland

Networks & Refreshments 16:00 - 16:30 @ Rocallis

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### Poster Presentations

PP-01	An Innovative Approach to Study the Distribution of Fibrillary Nanocellulose in a Cement Matrix: The Fluorescent Dye Method <b>Malgorzata Szafraniec</b> , Lublin University of Technology, Poland
PP-02	Modification of polypropylene based film using biocarbon fillers <b>Damian Dziadowiec</b> , Poznan University of Technology, Poland
PP-03	Design of the Advanced Hybrid Ballistic Composites <b>Marzena Fejdys</b> , Instytut Technologii Bezpieczeństwa Moratex, Poland
PP-04	From 3D to 6D Additive Manufacturing Technology of Polymer Pieces: Principles, Progress, Opportunities, and Challenges <b>Faisal Khaled ALDAWOOD</b> , University of Bisha, Saudi Arabia
PP-05	Atmospheric Corrosion of Metals Modified by Compositions Based on Organosilanes <b>M.A.Petrinin</b> , A.N. Frumkin Institute of Physical Chemistry & Electrochemistry of the Russian Academy of Sciences, Russia
PP-06	Yttrium Substituted Flower-structured Maghemite with High Heating Efficiency for Magnetic Hyperthermia Application <b>Željko Jaćimović</b> , University of Montenegro, Serbia
PP-07	Utilization of multilayered PET-based film waste using reactive compatibilizers <b>Piotr Szymczak</b> , Poznan University of Technology, Poland
PP-08	T-RTM: Advanced Technology Solution for Thermoplastic Composites <b>Filipe Martins</b> , University of Aveiro, Portugal
PP-09	Preparation, Optimisation and Characterisation of Solid Lipid Nanoparticles for Skin Delivery of Quercetin <b>Raida Al-Kassas</b> , Liverpool John Moores University, United Kingdom

### Video Presentation

VP-001	Use of zinc oxide nanoparticles and fine particles to decrease heavy metal leaching <b>Patricia Almendros</b> , Universidad Politécnica de Madrid, Spain
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### Day 2 Concludes

Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks

## 6<sup>th</sup> International Conference on **Polymer Science and Nanotechnology**

### Virtual Presentations

Day 1, June 29, 2023 BST

9.45 - 10.00 Introduction

#### Oral Presentations

10.00 - 10.25	Pyroelectric Energy Harvester for Waste Heat Recovery <b>Qingping Wang</b> , Hubei University of Education, Wuhan, China
10.25 - 10.50	4D Printing of Hollow Systems for Intravesical Drug Delivery <b>M. Uboldi</b> , Università degli Studi di Milano, Italy
10.50 - 11.15	Cigarette Butts Cause the Greatest Environmental Damage! Cellulose acetate filters, Nicotine Pollution, Microplastics, Biopolymers <b>Peter Eyerer</b> , Fraunhofer ICT, Germany
11.15 - 11.40	Membrane Bioreactor for Aerobic Wastewater Treatment and Reuse <b>Sarra Kitanou</b> , Ibn Tofail University, Kenitra -Morocco
11.40 - 12.05	Formulation And Evaluation of O-Coumaric Acid (O-Cu A) Loaded Guar Gum Nanoformulation Against Diabetic Wound Healing <b>Debojyoti Mandal</b> , Lovely Professional University, India
12.05 - 12.30	MAPLE Functionalized Implant Coatings based on Low-cost Sustainable Natural Resources for Infection Prevention <b>Anita Ioana Visan</b> , National Institute for Laser, Plasma and Radiation Physics, Romania
12.30 - 12.55	Efficiency of Thermal Design of Shallow Foundations <b>Lilita Ozola</b> , Latvia University of life science and Technology, Latvia
Lunch: 12.55 - 13.30	
13.30 - 13.55	Psyllium-Husk-Assisted Synthesis of ZnO Microstructures with Improved Photocatalytic Properties for the Degradation of Methylene Blue (MB) <b>Syed Nizam uddin Shah Bukhari</b> , Beijing University of Chemical Technology, China
13.55 - 14.20	Improving the Fatigue Design of Mechanical Systems such as Refrigerator <b>Seongwoo Woo</b> , Ethiopian Technical University, Ethiopia
14.20 - 14.45	Plasmonic Dressed States <b>Laverdant Julien</b> , Institute of Light And Matter, France
14.45 - 15.10	Roles of NAMPT and NAD <sup>+</sup> in Hypoxic Conditioning-Induced Neurovascular Protection in Subarachnoid Hemorrhage <b>Deepti Diwan</b> , Washington University School of Medicine, USA
15.10 - 15.35	Synthesis of Thermoresponsive PNIPAM-Grafted Cellulose Sulfates for Bioactive Multilayers via Layer-by-Layer Technique <b>Kui Zeng</b> , University of Oxford, United Kingdom

Day 1 Concludes

## 6<sup>th</sup> International Conference on **Polymer Science and Nanotechnology**

Day 2, June 30, 2023 BST

### Oral Presentations

10.00 - 10.25	Behaviour of L-Shape Semi-Rigid Timber Connections with Mechanical Fasteners <b>Lilita Ozola</b> , Latvia University of life science and Technology, Latvia
10.25 - 10.50	Frequency and Mode Shapes of Tapered Arches <b>A. Babahammou</b> , University Mohammed V in Rabat, Morocco
10.50 - 11.15	Development and Characterization of Anti-Diabetic Acarbose-encapsulated Guar gum Nanoformulation against Type 2 Diabetes <b>Sourbh Suren Garg</b> , Lovely Professional University, India
11.15 - 11.40	Reduced Graphene Oxide-Zinc Sulfide Nanocomposite Decorated with Silver Nanoparticles for Wastewater Treatment by Adsorption, Photocatalysis and Antimicrobial Action <b>Hafiz Muhammad Tofil</b> , Quaid-i-Azam University, Pakistan
11.40 - 12.05	Investigating the Effect of Cooling Media on Coefficient of Friction and Wear Behavior of Mild Steel Heat Treated at Different Temperatures <b>Mothibeli Pita</b> , University of South Africa, South Africa
12.05 - 12.30	Biopolymer in Prosthodontics – Wats The Buzz in This Branch of Dentistry <b>Hariharan Ramakrishnan</b> , Ragas Dental College and Hospital, India

Lunch: 12.30 - 13.30

13.30 - 13.55	Structure, Morphology, and Mechanical Properties of CrxNy Coatings Deposited By Hipims <b>Nassima</b> , Mohammed VI Polytechnic University UM6P, Morocco
13.55 - 14.20	Impact of Mechanical and Physical Properties In Polymeric Film Made From Hyaluronic Acid And Zinc Oxide Nano Particles For Synthesizing Dissolvable Microneedles <b>Dada Kolawole Segun</b> , ITMO University, Saint Petersburg, Russia Federation
14.20 - 14.45	Production of Activated Carbon from Gelidium and its Effectiveness in Crystal Violet Adsorption <b>Mikail Olam</b> , Inonu University, Turkey

### Poster Presentation

14.45 - 15.00	Photoresponse of Porphyrin-Based 2d-Metalated Covalent Molecular Framework <b>Neha Chaki Roy</b> , Indian Institute of Technology Bombay, India
15.00 - 15.15	Porous Bioceramic Nanocomposites with Improved Strength by Gradient Microstructure <b>Eszter Bodis</b> , Research Centre for Natural Sciences, Hungary
15.15 - 15.30	Socio-Demographic Variables and Prevalence of Psychoactive Substances Abuse among Youths in Enugu State, South Eastern, Nigeria <b>Matthew Chibunna Igwe</b> , The University of America, Curacao

Day 2 Concludes