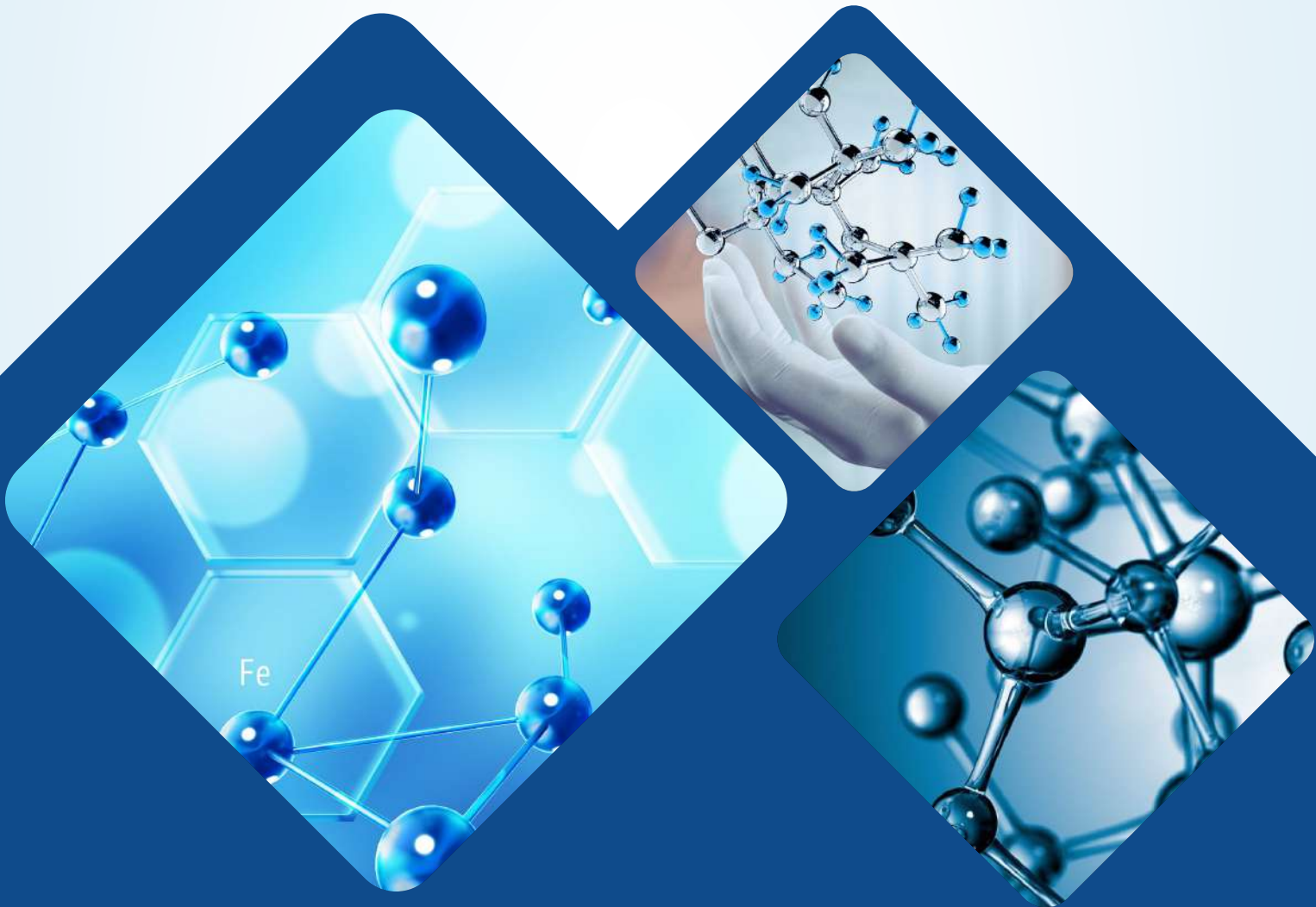


7th International Conference on
MATERIAL SCIENCE AND ENGINEERING

June 29-30, 2023 | Hotel SB BCN Events,
Barcelona, Spain



7th International Conference on **Material Science and Engineering**

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 - 15.30 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

14.30 - 15.00 Monoterpene-Inspired Ionic Liquids: A Promising Avenue for Biotechnology Applications
Joanna Feder Kubis, Wroclaw University of Science and Technology, Poland

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Material Science and Engineering

Modified Carbon Coatings for Medical Applications

15.00 - 15.30 **Damion Batory**, Department of Vehicles and Fundamentals of Machine Design, Lodz University of Technology, Poland

Automated Contrast Calculation and Non-Linear Fitting for Defect Quantification in Infrared Thermography

15.30 - 16.00 **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

7th International Conference on **Material Science and Engineering**

Day 2- June 30, 2023

Hall Name: Olimpic 2

Keynote Presentation

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

Oral Presentations

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

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, Institute of Security Technology "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 Carbon Nanotube Deposited Long Period Grating Sensor for Surrounding Refractive Index Sensing
Namita Sahoo, Aston University, United Kingdom

15.00 - 15.30 Ionic Liquids for Agricultural and Nanotechnological Purposes
Malgorzata Policht, Wroclaw University of Science and Technology, Poland

Networks & Refreshments 15:30 - 16:00 @ Rocallis

Poster Presentations

PP-01 An Innovative Approach to Study the Distribution of Fibrillary Nanocellulose in a Cement Matrix: The Fluorescent Dye Method
Malgorzata Szafraniec, Lublin University of Technology, Poland

PP-02 Modification of polypropylene based film using biocarbon fillers
Damian Dziadowiec, Poznan University of Technology, Poland

7th International Conference on **Material Science and Engineering**

PP-03	Design of the Advanced Hybrid Ballistic Composites Marzena Fejdys , Institute of Security Technology "MORATEX", Poland
PP-04	From 3D to 6D Additive Manufacturing Technology of Polymer Pieces: Principles, Progress, Opportunities, and Challenges Faisal Khaled ALDAWOOD , University of Bisha, Saudi Arabia
PP-05	Atmospheric Corrosion of Metals Modified by Compositions Based on Organosilanes M.A.Petrunin , 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 Željko Jaćimović , University of Montenegro, Serbia
PP-07	Utilization of multilayered PET-based film waste using reactive compatibilizers Piotr Szymczak , Poznan University of Technology, Poland
PP-08	T-RTM: Advanced Technology Solution for Thermoplastic Composites Filipe Martins , University of Aveiro, Portugal
PP-09	Preparation, Optimisation and Characterisation of Solid Lipid Nanoparticles for Skin Delivery of Quercetin Raida Al-Kassas , Liverpool John Moores University, United Kingdom
PP-10	Photoresponse of Porphyrin-Based 2d-Metalated Covalent Molecular Framework Neha Chaki Roy , Indian Institute of Technology Bombay, India
Video Presentation	
VP-001	Use of zinc oxide nanoparticles and fine particles to decrease heavy metal leaching Patricia Almendros , Universidad Politécnica de Madrid, Spain
Day 2 Concludes	
Panel Discussion - Awards & Closing Ceremony followed by Vote of Thanks	

7th International Conference on **Material Science and Engineering**

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
Qingping Wang , Hubei University of Education, Wuhan, China |
| 10.25 - 10.50 | 4D Printing of Hollow Systems for Intravesical Drug Delivery
Marco Uboldi , Università degli Studi di Milano, Italy |
| 10.50 - 11.15 | Polymer filters in cigarette butts cause massive environmental damage
Peter Eyerer , Fraunhofer ICT, Germany |
| 11.15 - 11.40 | Membrane Bioreactor for Aerobic Wastewater Treatment and Reuse
Sarra Kitanou , 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
Debojyoti Mandal , Lovely Professional University, India |
| 12.05 - 12.30 | MAPLE Functionalized Implant Coatings based on Low-cost Sustainable Natural Resources for Infection Prevention
Anita Ioana Visan , National Institute for Laser, Plasma and Radiation Physics, Romania |
| 12.30 - 12.55 | Efficiency of Thermal Design of Shallow Foundations
Lilita Ozola , 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)
Syed Nizam uddin Shah Bukhari , Beijing University of Chemical Technology, China |
| 13.55 - 14.20 | Improving the Fatigue Design of Mechanical Systems such as Refrigerator
Seongwoo Woo , Ethiopian Technical University, Ethiopia |
| 14.20 - 14.45 | Production of Activated Carbon from Gelidium and its Effectiveness in Crystal Violet Adsorption
Mikail Olam , Inonu University, Turkey |
| 14.45 - 15.10 | Roles of NAMPT and NAD ⁺ in Hypoxic Conditioning-Induced Neurovascular Protection in Subarachnoid Hemorrhage
Deepti Diwan , 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
Kui Zeng , University of Oxford, United Kingdom |
| 15.35 - 16.00 | Development and Characterization of Anti-Diabetic Acarbose-encapsulated Guar gum Nanoformulation against Type 2 Diabetes
Sourbh Suren Garg , Lovely Professional University, India |

Day 1 Concludes

7th International Conference on **Material Science and Engineering**

Day 2, June 30, 2023 BST

Oral Presentations

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|---------------|--|
| 10.00 - 10.25 | Study of the Behaviour of L-Shape Semi-Rigid Timber Connections with Mechanical Fasteners
Lilita Ozola , Latvia University of life science and Technology, Latvia |
| 10.25 - 10.50 | Frequency and Mode Shapes of Tapered Arches
A. Babahammou , University Mohammed V in Rabat, Morocco |
| 10.50 - 11.15 | Plasmonic Dressed States
Laverdant Julien , Institute of Light And Matter, France |
| 11.15 - 11.40 | Investigating the Effect of Cooling Media on Coefficient of Friction and Wear Behavior of Mild Steel Heat Treated at Different Temperatures
Mothibeli Pita , University of South Africa, South Africa |
| 11.40 - 12.05 | Biopolymer in Prosthodontics – Wats The Buzz in This Branch of Dentistry
Hariharan Ramakrishnan , Ragas Dental College and Hospital, India |
| 12.05 - 12.30 | Reduced Graphene Oxide-Zinc Sulfide Nanocomposite Decorated with Silver Nanoparticles for Wastewater Treatment by Adsorption, Photocatalysis and Antimicrobial Action
Hafiz Muhammad Tofil , Quaid-i-Azam University, Pakistan |

Lunch: 12.30 - 13.30

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|---------------|---|
| 13.30 - 13.55 | Structure, Morphology, and Mechanical Properties of CrxNy Coatings Deposited By Hipims
Nassima , 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
Dada Kolawole Segun , ITMO University, Saint Petersburg, Russia Federation |
| 14.20 - 14.45 | Analysis of Thiamethoxam Residues in Banana Stem and Fruit Through Liquid Chromatography- Mass Spectrometry/ Mass Spectyometry
A.Suganthi , Tamil Nadu Agricultural University, India |
| 14.45 - 15.10 | Biosynthesized Nanomaterial for Global Farming
Indira Rathore , Indian Farmers Fertiliser Cooperative Limited, India |
| 15.10 - 15.35 | Valorisation Of Orange Peel Waste (OPW) For Lactic Acid Production Using Indigenous Yeast Pichia Kudriavzevii
Neha Thakur , lovely Professional University, India |

Poster Presentation

- | | |
|---------------|--|
| 15.35 - 15.50 | Porous Bioceramic Nanocomposites with Improved Strength by Gradient Microstructure
Eszter Bodis , Research Centre for Natural Sciences, Hungary |
| 15.50 - 16.05 | Socio-Demographic Variables and Prevalence of Psychoactive Substances Abuse among Youths in Enugu State, South Eastern, Nigeria
Matthew Chibunna Igwe , The University of America, Curacao |

Day 2 Concludes

Bookmark Dates

**9th International Conference on
MATERIALS SCIENCE &
ENGINEERING**

April 11-12, 2024 | Rome Italy

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