8th International Conference on

	Day 1- September 21, 2023		
00.00.00.40	Meeting Hall: Rome		
08:00-08:40	Registrations		
08:40-09:00	Introduction		
	Keynote Presentations		
00.00 00.40	Title: Significance of structural Integrity Assessment for the Operational Safety of Structures		
09:00-09:40	Ljubica Milović, University of Belgrade, Serbia		
	Title:Study of Electromagnetic Properties of Leaving Matter in Microwave and		
09:40-10:20	Millimeter Wave Range for Medicine and Biology		
07.40-10.20	Svetlana von Gratowski, Russian Academy of Sciences, Russia		
	Group Photo (10:20-10:30)		
	Networking & Refreshments 10:30-10:45 @ Rome		
	Oral Presentations		
Session Chair	Svetlana von Gratowski, Russian Academy of Sciences, Russia		
Session Chair	Ljubica Milović, University of Belgrade, Serbia		
	Materials Science and Engineering Soft Matter & Nanoscale Materials Surface		
Sessions:	Science and Engineering Renewable Energy Material Mechanics of Materials and		
	Structures Structural Materials Polymers & Biopolymers Nano medicine		
10 45 11 15	Title: Strain-Induced Control of A Pillar Cavity-GaAs Single Quantum Dot Photon Source		
10:45- 11.15	Inah Yeo, Korea Science Academy of KAIST, South Korea		
	Title: Influence of Surface Characteristics on Cells Response in Turning of Biomedical		
11.15 - 11.45	Devices		
	Maria Rosaria Saffioti, University of Calabria, Italy		
11 45 10 15	Title: High Temperature Wear Testing of Refractory Stainless Steel		
11.45 - 12.15	Giselle Ramírez, Eurecat Technological Center of Catalonia, Spain		
	Title: Integrating Agri-Food and Construction Industries: Unlocking Synergistic		
12.15 - 12.45	Opportunities		
	Margarida Soares, Centro para a Valorização de Resíduos, Portugal		
12.45 - 13.15	Title: Bio-Based High-Performance Cellulose Twine for Extended Horticultural		
	Application Opportunities in the Paris Region		
	Christoph Partes, Cordenka GmbH & Co. KG, Germany		
	Lunch 13:15-14:00 @ Escale		
1.4.00 1.4.00	Title: Investigation of Crystal Morphology and Orientation of P3HT:PTCA Blend Thin Films		
14.00 - 14.30	Pallavi Kumari, Polish Academy of Sciences, Poland		
	Title: Coupling Isothermal Recrystallization and Preceding Cold wire-Drawn		
14.30 - 15.00	Deformation Effects on Crystallography of AISI 430F, a Ferritic/Ferromagnetic Stainless		
	Steel: An Integrated Study Incorporating Magnetic, Mechanical, and Tribo-Corrosion		
	Investigations		
	Shahab Bazri, Polytechnic University of Milan, Italy		

Thursday September 21, 2023

Scientific Program

8th International Conference on

15.00 - 15.30	Title: The Influence of the Share of Glass Components on the Process of Crystallization of Amorphous Phases and the Functional Properties of Lime-Sand Materials Formed as a Result of Hydrothermal Treatment
	Anna Stepien, Kielce University of Technology, Poland
15.30 - 16.00	Title: Spark Plasma Sintering of Mg-3wt%Al-1wt%Zn Hybrid Nanocomposite: Effect of Sintering Temperature on Mechanical Properties
	Ogunlakin Nasirudeen Olalekan, King Fahd University of Petroleum and Minerals, Saudi Arabia
16.00 - 16.30	Title: Characterization of the Friction Stir Processed Dissimilar Aluminium Alloy Welded Joints
	COLUMN TO THE COLUMN T
	Sipokazi Mabuwa, Cape Peninsula University of Technology, South Africa
	Networking & Refreshments 16:30-17:00 @ Rome
17.00 -17.30	
17.00 -17.30	Networking & Refreshments 16:30-17:00 @ Rome Title: Experimental and Numerical Attempt to Determine the Heat Generated During
	Networking & Refreshments 16:30-17:00 @ Rome Title: Experimental and Numerical Attempt to Determine the Heat Generated During Dynamic Tensile Testing of TWIP Steels
17.00 -17.30 17.30 -18.00	Networking & Refreshments 16:30-17:00 @ Rome Title: Experimental and Numerical Attempt to Determine the Heat Generated During Dynamic Tensile Testing of TWIP Steels Katarzyna Jasiak, Wroclaw University of Science and Technology, Poland
	Networking & Refreshments 16:30-17:00 @ Rome Title: Experimental and Numerical Attempt to Determine the Heat Generated During Dynamic Tensile Testing of TWIP Steels Katarzyna Jasiak, Wroclaw University of Science and Technology, Poland Title: Designing Composite Pedestal – Metal Replacement
17.30 -18.00	Networking & Refreshments 16:30-17:00 @ Rome Title: Experimental and Numerical Attempt to Determine the Heat Generated During Dynamic Tensile Testing of TWIP Steels Katarzyna Jasiak, Wroclaw University of Science and Technology, Poland Title: Designing Composite Pedestal – Metal Replacement Vural ICLI, Assan Hanil Otomotiv San. ve Tic., Turkey Title: A Self-Cleaning Nanoparticle Hybrid Coating for Highly Efficient All-Day Passive

8th International Conference on

	Day 2- September 22, 2023
	Meeting Hall: Rome
	Keynote Presentations
09:00-09:40	Title: Metal Oxide Thin Film for High Performance Electrochemical Sensing Applications
	Mahabubur Chowdhury, Cape Peninsula University of Technology, South Africa
09:40-10:20	Title: Contribution of Al and Machining Learning in Advanced Material Characterization
	David BASSIR, University Paris-Saclay, France
	Networking & Refreshments 10.20 - 10.45 @ Rome
	Oral Presentations
Session Chair	Yasko Kodama, Nuclear and Energy Research Institute, Brazil
Session Chair	Mahabubur Chowdhury, Cape Peninsula University of Technology, South Africa
Sessions	Nanostructures and Nanofilms Mechanics of Materials and Structures Materials Science and Engineering Structural Materials Composite, Coating and Ceramic Materials Computational Material Science Biomedical Engineering 3D printing & Additive manufacturing Energy Materials and Sustainability Nanotechnology and Nanomaterials Advanced Energy Materials Polymers & Biopolymers Biomedical Engineering
10.45 - 11.15	Title: Radiation Induced Graft Polymerization (RIG) of Membranes for Reduction of Nuclear Waste Generated at Nuclear Fuel Production Process
	Yasko Kodama, Nuclear and Energy Research Institute, Brazil
11.15 - 11.45	Title: Combining Fictitious Stress Method and Displacement Discontinuity Method in Solving Crack Problems in Anistropic Material
	Bahattin Kimençe, Istanbul Technical University, Turkey
11.45 - 12.15	Title: The Use of Computer Tomography Method in the Analysis of the Microstructure of Materials Formed as a Result of Hydrothermal Treatment: Cellular Concretes
	Ryszard Dachowski, Kielce University of Technology, Poland
12.15 - 12.45	Title: Towards Efficient Recycling of Nd-Fe-B Permanent Magnets: A Sustainable Solution For the Recovery of Nd ₂ Fe ₁₄ B Grains
	Amit Mishra, Institute Jozef Stefan, Slovenia
12.45 - 13.15	Title: Fracture Studies of Bioinspired Helicoidal GFRP Composite Laminates
	Shreya Rai, Indian Institute of Technology Madras, India
	Lunch 13:15 -14:15 @ Escale
14.15 - 14.45	Title: Advancing Biomedical Applications: Hardness And Wear Resistance Study of Zr-Based Bulk Metallic Glasses Compared to 316L SS and Ti ₆ Al ₄ V Alloy
	Michał Biały, Wrocław University of Science and Technology, Poland
14.45 - 15.15	Title: Development of Nanoparticle-Assisted Liquid Crystal Sensors for Dye Detection in Aqueous Environments
	Selda Sezer, Malatya Turgut Ozal University, Turkey

8th International Conference on

15.15 -15.45	Title: Stimuli-Responsive Porous Particle-Loaded Therapeutics
	Clea CHESNEAU, University of Paris - Est Créteil, France
15.45 - 16.15	Title: Investigation on the Flexural Performance of Additively Manufactured Re-Entrant
	Diamond Auxetic Metamaterial
	Niranjan Chikkanna, Indian Institute of Technology Madras, India
	Networking & Refreshments 16.15 - 16.45 @ Rome
16.45 - 17.15	Title: Amorphous Oxide Coatings Limiting H ₂ Permeation Through Polymer
	Membranes - Synthesis and Measurements
	Natalia Kaczmarczyk, Wrocław University of Science and Technology, Poland
17.15 - 17.45	Title: Tensile Test Analysis of 3D Printed Specimens with Varying Print Orientations and Infill Density
17.15 - 17.45	Thesan Appalsamy, Council for Scientific and Industrial Research (CSIR), South Africa
17.45 - 18.15	Title: A Silicon Nitride ISFET-Based Immunosensor for Tumor Necrosis Factor-Alpha Detection in Saliva. A promising Tool for Heart Failure Monitoring
	Hamdi Ben Halima, Claude Bernard Lyon University, France
	Title: Phyto-Compatible Photo-Crosslinkable Hydrogels for Plant Tissue Culture
18.15 - 18.45	Roya Rezanavaz, Chemistry & Physics Research Group, Scion, New Zealand
	Poster Presentations
	Title: Increasing the Build Speed of Additively Manufactured 316L Under Limitations of
MSP001	the Process Window and the Build Geometry
	Michael Berghaus, FH Muenster, Germany
	Title: A Metallic-Skeleton Based Gas Diffusion Layer with Enhanced Triple-Phase
MSP002	Boundary for Highly Efficient CO ₂ -To-Formate Electroreduction
	Tengyi Liu, Tohoku University, Japan
MSP003	Title: Investigating the Influence of Coatings for Geothermal Heat Exchangers
Maruus	Arunima Bhuvanendran, University of Leicester, UK
MSP004	Title: Application of the Chemical Modeling Code in the Quantitative Analysis of the Phase Structure of Plasters
	Anna Stepien, Kielce University of Technology, Poland
MSP005	Title:Immobilization of Amphiphilic Proteins on Poly-Hydroxybutyrate Particles and Application in Biodegradable Packaging
	Roya Rezanavaz, Chemistry & Physics Research Group, Scion, New Zealand
MSP006	Title: Improvement of Surface Roughness at Overhang Areas from Parts Made of 316L by Variation of Laser Beam Diameter and Laser Strategy
	Michael Berghaus, FH Muenster, Germany
MSP007	Title: Development of MgAlCrFeNi and MgAlCrNiV Alloys for Ni-MH Batteries
	Gülhan Cakmak, Muğla Sıtkı Koçman University, Turkey

8th International Conference on

Materials Science & Engineering

E- Poster Presentation

MSEP001

Title: Dentistry and Orthopedics: Advancements in Long-Term Tracking of PLA Scaffolds for Guided Tissue Engineering with Up-Conversion Nanocrystals

Rodrigo Alberto Osorio Arciniega, National Autonomous University of Mexico, Mexico

Day 2 Concludes

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

8th International Conference on

	Virtual Presentations
	Day 1 - September 21, 2023 BST
10.00 - 10.10	Introduction
	Keynote Presentation
10.10 - 10.40	Title: Chiral FA Conjugated CdTe/CdS Quantum Dots for Selective Cancer Ablation Guangmin Li, Tianjin Chengjian University, China
10.40 - 11.20	Title: Antibody-Proteases as Translational Tools of the Newest Generation to be Applied for Biodesign and Bioengineering to Get Precision and Personalized Healthcare Services Re-Armed
	Sergey Suchkov, Institute for Biotechnology & Global Health of RosBioTech and A.I., Russia
	Oral Presentations
11.20 - 11.50	Title: Towards Self-Powered Pavement Skid Resistance Monitoring via Textile-Inspired Triboelectric Nanogenerator
	Yafeng Pang, Tongji University, China
11.50 - 12.20	Title: Strengthening and Grain Refining of Aluminum Alloy 2014 with Scandium Addition
	Farid Mulia, Institut Teknologi Bandung, Indonesia
12.20 - 12.50	Title: Multi-Scaled Polymer Nanocomposite Fabrication
	Ayse Cagil Kandemir, TED University, Turkey
12.50 - 13.20	Title: Influence of Ultrafine-Grained Structure Parameters on the Effects of Annealing-Induced Hardening and Deformation-Induced Softening In CP Al
	Sadykov Dinislam, ITMO University, Russia
	Lunch Break (13.20 - 13.50)
	Title: Water-driven based large scale synthesis of CoNiAs nanoparticles as an
13.50 - 14.20	electrocatalys for alkaline oxygen evolution reaction
	Priyanka Lakharwal, Indian Institute of Technology, India Title: Multi-Sensor System for Remote Detection of Toxic Gases
14.20 - 14.50	Nahida Musaeva, Institute of Physics of AMSE, Azerbaijan
14.50 - 15.20	Title: Production of Carbon from Hazelnut Shell and Lemna Minor by Co- Carbonization
	Mikail Olam, Inonu University, Turkey
15.20 - 15.50	Title: Comparison of Emissions: Electric Vehicles vs. Internal Combustion Engine Vehicles
	Cagri Un, Purdue University, USA
	Poster Presentation
15.50 - 16.05	Title: Characteristics of Selected Glass Components and their use in Building Materials
	Milena Kwiatkowska, Kielce University of Technology, Poland
15.50 - 16.05	Title: Advances and Challenges for Dry and Flexible Electrodes-based EEG Sensors
	Sawsen EL HADJ, Capgemini Engineering, France
	Day 1 Concludes

8th International Conference on

	Day 2 - September 22, 2023 BST
	Oral Presentations
10.00 - 10.30	Title: Preparation of A Novel Nanocomposite and its Properties for Carbon Dioxide Gas Sensing Application
	Zaireen Fatima, University of Lucknow, India
10.30 - 11.00	Title: Numerical and Experimental Evaluation of Damage in Laminated Composites Tubes Under Low- Speed Impacts
	Alexandre Neto, CEMMPRE - Polytechnic of Leiria, Portugal
11.00 - 11.30	Title: H_2 Production from Hydrazine Monohydrate ($N_2H_4\cdot H_2O$) Using Noble-Metal-Free Ni–W–O- Catalysts
	Delia Teresa Sponza, Dokuz Eylül University , Turkey
11.30 - 12.00	Title: Synergetic Effects of Boron Nitride with Waste Zirconia: Evolution of Structural and Mechanical Properties for Instantaneous Fingerprint Detection/biomedical Applications
	Shweta, University of Lucknow, India
12.00 - 12.30	Title: Synthesis and Characterization of 3d Poss Flouresent Dyes Using Click Chemistry and Functionalization of Novel 3d Poss Flouresent Dyes with Molybdenumoxide-Tungsten Oxide Nanocomposite for Biosensor and Anticounterfeiting
	Ogungbesan Shephrah Olubusola, Federal University of Agriculture Abeokuta, Nigeria
12.30 - 13.00	Title: The Effect of Processing Methods on Ferromagnetic Phase Transformation of the MnAl Alloys
	Rachida Ghinous, Université Internationale de Raba, Morocco
13.00 - 13.30	Title: Improving the Fatigue Design of Mechanical Systems such as Refrigerator
	Seongwoo Woo, Ethiopian Technical University, Ethiopia
13.30 - 14.00	Title: Electro-optic Activity of A Non-ideal One-dimensional Photonic Structure
	Ales Mishchenko, A.A.Galkin Donetsk Institute for Physics and Engineering, Ukraine
14.00 - 14.30	Morphological, Mechanical, and Biological Evolution of Pure Hydroxyapatite and its Composites with Titanium Carbide for Biomedical Applications
	Sarvesh Kumar Avinashi, University of Lucknow, India