Scientific Program

6th International Conference on

	Day 1 - November 09, 2022	
	Hall Name: El Dhiyafa 2	
08:00 - 08:40	Registrations	
08:40 - 09:00	Introduction	
	Keynote Presentations	
09:00 - 09:40	Title: Rings and Chains: New Functionalized Polymeric Materials from Various Heterocyclic Monomers	
	Helmut Ritter, University Duesseldorf, Germany	
09:40 - 10:20	Title: Robust Amphiphobic Property on Polymer Substrate for Electronic Devices Young-Rae Cho, Pusan National University, Republic of Korea	
10:20 - 11:00	Title: Advantages of Using Ultra-High-Performance Concrete in Modular Construction	
10:20 - 11:00	Raafat El-Hacha, University of Calgary, Canada	
	Group Photo (11:00 - 11:10)	
	Refreshments (11.10 - 11.30) @ Outside the hall	
	Oral Presentations	
Chair	Young-Rae Cho, Pusan National University, Republic of Korea	
Co - Chair	Markus Brillinger, Pro2Future GmbH, Austria	
Sessions:	Materials Science and Engineering Materials Chemistry Functional Materials Nano Materials and Nanotechnology Advanced Energy Materials Surface Science and Engineering Biomaterials and Medical Devices Mechanical and Civil Engineering Metallurgical Engineering Ferrous and Non-Ferrous Materials	
11:30 - 12.00	Title: Improved Corrosion Resistance of Oxide Sol-Gel Films Deposited on Zinc-Based Substrates	
	Nikolai Boshkov, Bulgarian Academy of Sciences, Bulgaria	
12.00 - 12.30	Title: Decellularization of Full Heart—Optimizing the Classical Sodium-Dodecyl-Sulfate-Based Decellularization Protocol	
12.00 - 12.30	Reem S AL Hejailan, King Faisal Specialist Hospital and Research Center, Saudi Arabia	
12.30 - 13.00	Title: Comparative Chemico-Physical Analyses of Single GaAs/Al _{0.3} Ga _{0.7} As Quantum Dot Photon Sources Grown by Droplet Epitaxy	
	Inah Yeo, Pusan National University, South Korea	
	Lunch (13:00 - 14:00) @ New Seasons Restaurant	
14.00 - 14.30	Title: Crystal Chemistry of Ti-Bearing Hydroxyapatites and Nature of Photocatalytic Activity of Ti-Modified Hydroxyapatite Materials	
	Anatoliy Korneev, Saint Petersburg State University, Russia	
14.30 - 15.00	Title: Tree Gum-Based Functional Materials for Advanced Applications Vinod V.T. Padil, Technical University of Liberec, Czech Republic	

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	Day 1 Concludes
20.00 - 20.30	Ayouba Diarra, Data Consulting Group, Mali
20.00 - 20.30	Title: Dynamic and Real-Time Biometrics in Clinical Research
	Ljubica Milovic, University of Belgrade, Serbia
19.00 - 19.30	Title: Corrosion Resistance of Virgin and Used Steam Line Pipes Made of Steel Grade MoV6-3
	Aleksandra Malachowska, Wroclaw University of Science and Technology, Poland
	Title: Application of Nanosecond Green Laser for Iron-Based Metallic Glassed Sintering
10.50 - 17.00	Marcin Korzeniowski, Wroclaw University of Science and Technology, Poland
18.30 - 19.00	Title: Integration of Vision System into Laser Sintering Process
	Siyu Yang, The Hong Kong University of Science and Technology, Hongkong
18.00 - 18.30	Title: A Lyophilized Ready-To-Use Mix for The Real-Time Polymerase Chain Reaction Diagnosis
	Kadhim Al Amara, University of Ras Al Khaimah, United Arab Emirates
17.30 - 18.00	Title: Effect of Standoff Distance on the Splat Formation of Flame Sprayed Polymer onto A Mild Steel Rough Surface
	Networking & Refreshments (17:00 - 17:30) @ Outside the hall
	Sipokazi Mabuwa, Cape Peninsula University of Technology, South Africa
16.30 - 17.00	Title: The Microstructure and Mechanical Characterization of The Friction Stir Welded Joints with Respect to a Sampling Direction
10.00 - 10.50	Arkadii Arinstein, Technion-Israel Institute of Technology, Israel
16.00 - 16.30	Title: Nano Vs Macro: Small Size Does Matter
15.00 - 15.30	Vijay Navaratna Nadakuduru, Malaviya National Institute of Technology Jaipur, India
	Title: Friction Stir Spot Welding of Al 6061 Alloy Synthesized Using Powder Metallurgy
	Yunpeng YUE, Nagoya University, Japan
	Title: Highly Efficient Coalescence and Separation of Oil-In-Water Emulsion by Polyacrylonitrile Nanofibrous Membrane

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	D. 2 November 10, 2022		
	Day 2 - November 10, 2022		
	Hall Name: El Dhiyafa 2		
	Keynote Presentation		
09:00 - 09:40	Title: Study of Mechanisms of Could Field Emission in CNT and Creation of CNT-Based Cathodes with the Help of Mechanical Bottom – Up Nano-Integration Base on Shape Memory Nano Tools		
	Svetlana von Gratowski, Russian Academy of Sciences, Russia		
09:40 - 10:20	Title: Subcooled Liquid Printing – How to Increase Profitability of Additive Manufacturing by Scales?		
	Markus Brillinger, Pro2Future GmbH, Austria		
	Refreshments (10.20 - 10.40) @ Outside the hall		
10.40 - 11.10	Title: Thermal Heat Storage and Dissipating Behaviour of Phosphate Composites with House Decorating Materials		
	Trilochan Swain, Fakir Mohan University, India		
11.10 - 11.50	Title: Intelligence: Attempting to Build a Bridge Between Artificial and Biological Domains		
	Alessandro Chiolerio, Istituto Italiano di Tecnologia, Italy		
	Oral Presentations		
Chair:	Svetlana von Gratowski, Russian Academy of Sciences, Russia		
Co - Chair:	Alessandro Chiolerio, Istituto Italiano di Tecnologia, Italy		
Sessions	Functional Materials Advanced Energy Materials Materials Science and Engineering Composite, Coating and Ceramic Materials Nano Materials and		
— 003 510113	Nanotechnology Surface Science and Engineering Environmental and Green Materials Ceramics and Composite Materials Materials for Computing Functional Biomaterials Micro or Nano Materials		
11.50 - 12.20	Materials Ceramics and Composite Materials Materials for Computing Functional		
	Materials Ceramics and Composite Materials Materials for Computing Functional Biomaterials Micro or Nano Materials Title: Weldability of Additive Manufactured Components by Laser Powder Bed Fusion		
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14:40 - 15.10	Title: Experimental and Finite Element Analyses of Metallic Materials Used in Marine Applications Subjected to Torsion Loading
	Saud Bader Amur Al Radini, Military Technological College, Oman
15:10 - 15.40	Title: Photocatalytic Properties of Nanotitania to Inhibit the Growth of Gardnerella Vaginalis (GAVA)
	Ahmad Mukifza Harun, Universiti Malaysia Sabah, Malaysia
15:40 - 16.10	Title: Degradation of the Mechanical Properties of Carbon/Epoxy Composite Materials Under Hygro-Thermal Aging
	Bachir Bouiadira Bel Abbes, University of Sidi Bel Abbes, Algeria
16:10 - 16.40	Title: Strengthening Reinforced Concrete Structures Using Carbon Fibre Reinforced Polymer
	Raafat El-Hacha, University of Calgary, Canada
16:40 - 17.10	Title: Hydroxypropyl methylcellulose-copper nanoparticle and its nanocomposite hydrogel films for antibacterial application
	Radha Devi Pyarasani, Universidad de Catolica del Maule, Chile
	Networking & Refreshments (17:10 - 17:20) @ Outside the hall
17:20 - 17.50	Title: Generalizing Rosenbluth's Algorithm to Include Along-the-Chain Intramolecular Energies
	Ebtisam A. Aldaais, Imam Abdulrahman Bin Faisal University, Saudi Arabia
17:50 - 18:20	Title: A simplified technique to evaluate the strength and stiffness of a filament winding CFRP composite propeller hollow drive shaft: Comparison to a conventional high strength stainless steel alloy propeller shaft
	Ayman Yousef Saleh, Military Technological College, Oman
18:20 - 18:50	Title: rGO Decorated Nanoparticles: An Advanced Catalyst for The Hydrogen Evolution Reaction
	Kishor Kumar Sadasivuni, Qatar University, Qatar
18:50 - 19:20	Title: structure and Possible magnetic phase in Sn-doped La _{0.67} Ca _{0.33} MnO ₃
	Zohra Ali Gebrel, University of Sabratha, Libya
19:20 - 19:50	Title: Carbon Nano Fibre Infused Ultra-High-Performance Fibre Reinforced Concrete: Compressive Strength and Modulus of Elasticity
	Raafat El-Hacha, University of Calgary, Canada

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Materials Science & Engineering

	Poster Presentations
Poster 001	Title: Environmentally Friendly Surface Films for Corrosion Protection of Galvanized Steel
	Nelly Boshkova, Bulgarian Academy of Sciences, Bulgaria
Poster 002	Title: Shaped-Controlled Nanocrystals with Carbon Dots-Based Co-Catalyst for Photocatalytic Hydrogen Production
	Hana Kmentová, Palacký University Olomouc, Czech Republic
Poster 003	Title: Properties of Oxidized Surface Layers Produced by the PDT Method on the Zr ₄₈ Cu ₃₆ Al ₈ Ag ₈ Bulk Metallic Glass
	Piotr Błyskun, Warsaw University of Technology, Poland
Danta v 00 4	Title: The Amine Plasma Polymer Coatings for Increasing Endothelization of Vascular Stents
Poster 004	Solovieva Anastasiya, Research Institute of Clinical and Experimental Lymphology, Russia
Poster 005	Title: Electropulse and Furnace Sintering of a Tungsten-Based Powder Composition with Copper, Nickel And Iron Additives for Radiation Protection
	Vadzim Savich, O.V.Roman Powder Metallurgy Institute, Belarus
Poster 006	Title: Microstructure and Properties of Cobalt-Based Composite Powders Reinforced by Inclusions of Titanium Carbide Obtained by VIGA
	Aliaksandr Ilyushchanka, O.V.Roman Powder Metallurgy Institute, Belarus
Poster 007	Title: Surface Modification of the $\rm Zr_{48}Cu_{36}Al_8Ag_8$ Bulk Metallic Glass in Glow Discharge Plasma Nitriding
	Krzysztof Kulikowski, Warsaw University of Technology, Poland
Danta v 000	Title: Radiative Energy Transfer in Optically Bound Colloidal Quantum Dot Spheres
Poster 008	Marios Sergides, University of Cyprus, Cyprus
Poster 009	Title: Flexible Hybrid Nanogenerator for Energy Harvesting and as a Self-Powered NH3 Gas Sensor
	Elhassen Cheikh Elhadrami, Qatar University, Qatar

Day 2 Concludes

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

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Virtual Presentations		
	Day 1 - November 09, 2022 (Time Zone:GMT)	
10.00 - 10.10	Introduction	
Keynote Presentations		
10.10 - 10.40	Title: Stereolithographic Additive Manufacturing of Functional Geometries	
10.10 - 10.40	Soshu Kirihara, Osaka University, Japan	
	Oral Presentations	
	Title: Comparing Different Strategies to Protect and Deliver Vitamin D3 for the	
10.40 - 11.05	Treatment of Psoriasis	
	Marta Gallo, Politecnico di Torino, Italy	
1105 1120	Title: Research and Development of Water Electrolyzers Based on Ion Exchange Membranes	
11.05 - 11.30	Vladimir Fateev, National Research Center Kurchatov Institute, Russia	
	Title: The 'Generalized Skettrup Model' and Lattice Thermal Capacity of Polymers	
11.30 - 11.55	Valeri LIGATCHEV, Singapore	
	Title: Biopolymer-based Gold Nanoparticles for Wound Healing Applications	
11.55 - 12.20	Sathish Sundar Dhilip Kumar, University of Johannesburg, South Africa	
	Title: Biomacromolecules as Matrix for Antimicrobial Nanocomposite Films: A	
12.20 - 12.45	Comparative Study	
	Paolo Pino, Politecnico di Torino, Italy	
	Title: Properties and Application of 3d Hybrid Nanomaterials: Polyhedral Oligomeric	
12.45 - 13.10	Silsesquioxanes	
	Enrico Boccaleri, DiSSTE-Università del Piemonte Orientale, Italy	
1210 1225	Title: Kinetic, Isotherm and Thermodynamic Study of Mineral Ions Adsorption Using Strong Cation Exchange Resin for Water Softening	
13.10 - 13.35	Norhayati Abdullah, Universiti Malaysia Pahang, Malaysia	
	Title: Materials Auscultation in Heritage Building	
13.35 - 14.00	Rubén Rodríguez Elizalde, Universitat Oberta de Catalunya, Spain	
Keynote Presentations		
14.00 - 14.30	Title: Manufacture Wafer Scale Low Cost and Environmentally Friendly Germanium	
	Nanomembranes	
	Abderraouf Boucherif, University of Sherbrooke, Canada	
	Day 1 Concludes	

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Day 2 - November 10, 2022 (Time Zone:GMT)		
Keynote Presentation		
10:00 - 10:30	Title: Stereolithographic Additive Manufacturing of Fine Ceramic Components	
	Soshu Kirihara, Osaka University, Japan	
	Oral Presentations	
10.30 - 10.55	Title: Metal Organic Frameworks Incorporated Ultrafiltration Membrane for Industrial	
	Wastewater Treatment	
	Norhaniza Yusof, Universiti Teknologi Malaysia, Malaysia	
10.55 - 11.20	Title: Carbon-Modified-Tio ₂ in Water Decontamination: Photo-Reforming of Pollutants Using 2D and 3D Graphene-Based Tio ₂ Nanomaterials	
	Sin Yuan Lai, Xiamen University Malaysia, Malaysia	
11 20 11 45	Title: Improving the Reliability Design of Mechanical Systems Such as Refrigerator	
11.20 - 11.45	Seongwoo Woo, Ethiopian Technical University, Ethiopia	
	Poster Presentations	
11.45 - 12.00	Title: Effects of Electron Beam Irradiation on the Hardness and Wear Resistance of PEEK	
	Nurlan Almas, Amanzholov University, Kazakhstan	
12.00 - 12.15	Title: Evaluation the Safety and the Impact of Standard Antiviral Drugs on Kinetic of Antiviral Activity on the Early Stages of Viral Replication Cycle by Surface Plasmon Resonance Method	
	Evdokiya Hikova, Bulgarian Academy of Sciences, Bulgaria	
12.15 - 12.30	Title: Computational Analysis of Heterostructures with Transparent Conductive Oxides for the Fabrication of Solar Cells	
. 2.00	Ana Cristina Carranza Sanchez, University of Puebla, Mexico	
10.20 10.45	Title: Quantum Kinetic Phenomena in Proton Semiconductors and Dielectrics	
12.30 - 12.45	Valeriy Kalytka, Abylkas Saginov Karaganda Technical University, Kazakhstan	
10.45 12.00	Title: Environmental Residential Architecture of Northern Kazakhstan	
12.45 - 13.00	Olga Semenyuk, Gumilyov Eurasian National University, Kazakhstan	
E-Poster Presentations		
13.00 - 13.15	Title: Reproduction Quality of Thermochromic Line Prints	
	Katarina Itrić Ivanda, University of Zagreb, Croatia	
	Day 2 Concludes	