	Day 1 October 12, 2023	
Meeting Hall: Event 4&5		
08:00 - 8.45	Registration	
8.45 - 9.00	Introduction	
	Keynote Presentations	
9.00 - 9.40	Harmonic and Anharmonic Lattice Thermal Capacities of Molecular Wires and 0001-oriented Cylindrical ZnO Nano-Wires	
	Valeri Ligatchev, Independent Researcher, Singapore	
9.40 - 10.20	Effect of Magnetocrystalline Anisotropy to Enhance Self Heating Efficiency of Rare Earth Substitute Fe ₃ O ₄ Nanoparticles for Magnetic Hyperthermia Application	
	Jyoti Prasad Borah, NIT Nagaland, India	
	Exhibitor Presentation	
10:20 - 10:50	Introduction (Exhibitor)	
	Juliusz Skoryna, De Gruyter, Poland	
	Group Photo 10:50 - 11.00	
	Networks & Refreshments 11.00 - 11.15 @ Foyer	
	Oral Presentations	
Chair	Masahiko Hara, Tokyo Institute of Technology, Japan	
Co-Chair	Alexandre D'Agostini Zottis, Federal Institute of Santa Catarina, Brazil	
Sessions	Advanced Materials and Applications Life Sciences & Nanomedicine Nanotech: In other fields Nanotech for Energy and Environment Nanotechnology and Nanomaterials Biomedical Engineering and Nanobiotechnology Nanocharacterization and Nanomanufacturing	
11.15 - 11.45	Characterisation of Vertical VO ₂ Nano Switch	
11.15 - 11.45	János Mizsei, Budapest University of Technology and Economics, Hungary	
11.45 - 12.15	The Influence of Gelatin type and Processing Conditions on Gelatin Nanoparticle Properties	
	Jos Olijve, Rousselot BV, Netherlands	
12.15 - 12.45	Mobilizing Phospholipids on Tumor Plasma Membrane via Nano-Particle Mediated Delivery Implicates Phosphatidylserine Externalization Blockade for Cancer Immunotherapy	
	Yi-Nan Gong, Hillman Cancer Center, USA	
12.45 - 13.15	Development and Evaluation of A High-flow-rate Cascade Impactor Equipped with Gelatin Filters for Collecting Ambient Particulate Matter	
	Constantinos Sioutas, University of Southern California, USA	
	Lunch 13:15 - 14:00 @ Gallery	
14:00 - 14.30	Innovative Nanomaterials for The Removal of Nucleic Acids of Bacteria Conveying Antibiotic Resistance Genes from Water/Wastewater	

14.30 - 15.00	Ferritin Nanocage and Gold Nanorod Bioconjugate for Cancer Photothermal Therapy
	Janhavi Devrukhkar, Indian Institute of Technology Bombay, India
15.00 - 15.30	Use of Nanomedicine in the Treatment of Atherosclerosis
	Ahsan Ali, Kazakh Russian Medical University, Kazakhstan
15.30 - 16.00	A Mixed-Finite Element Method Based Formulation for the Static Bending Analysis of Eringen's Strain-Driven Euler-Bernoulli Nanobeams
	Gaurab Kumar Khanra, Indian Institute of Space Science and Technology, India
	Networks & Refreshment 16:00 - 16:30 @ Foyer
16.30 - 17.00	A Rapid Method for the Middle Uremic Toxin β2m Analysis via SMPS
	Alice Chinghsuan Chang, Industrial Technology Research Institute, Taiwan
17.00 - 17.30	Preclinical Evaluation of Novel Oxasmaragdyrin Dye Loaded Liposomes as Nir Triggered Theranostic Agent for Cancer Photothermal Therapy
	Suditi Neekhra, Indian Institute of Technology, India
17.30 - 18.00	Continuous Preparation of Size-Controlled NiFe ₂ O ₄ Nanoparticles by Means of A Spinning Disk Reactor
	Lorenzo Iezzi, Sapienza University of Rome, Italy
	Day 1 Concludes followed by Awards Ceremony

	D 2 O.t.a.k.a 12, 2022
	Day 2 October 13, 2023
	Meeting Hall: Event 4&5
	Keynote Presentations
9:00 - 9:40	Bridging The Gap Between Emerging Technologies and Al Hardware!
	Shady Agwa, The University of Edinburgh, United Kingdom
9:40 - 10:20	Hedgehog Architectures of Hydrocarbon Surfactants to Form a Low Surface Energy Monolayer Comparable to Fluorocarbons
	Masanobu Sagisaka, Hirosaki University, Japan
	Oral Presentations
Chair	Masahiko Hara, Tokyo Institute of Technology, Japan
Co-Chair	János Mizsei, Budapest University of Technology and Economics, Hungary
Sessions	Nanomaterials and Nanoparticles Computational Nanotechnology Nanotechnology and Nanomaterials Nanostructures And Nano films Nanotech for Energy and Environment Recent Development and Advanced Researches in Nanotechnology Nanophotonics and Nano/Micro optics Material Science and Nanomaterials Nanomaterials and Nanoparticles Industrial Nanotechnology
10:20 - 10:50	Novel Superparamagnetic Iron Oxide Nanoparticles Coated by Pheomelanin and Unsaturated Copolymer Applied to Biomedical Applications for Breast Cancer
	Alexandre D'Agostini Zottis, Federal Institute of Santa Catarina, Brazil
	Networks & Refreshments 10:50 - 11:05 @ Foyer
11:05 - 11:35	Nano-Spectroscopic Approaches to Chemical Evolution and Origin of Life
	Masahiko Hara, Tokyo Institute of Technology, Japan
11:35 - 12:05	Crystallization of Nanostructured Explosive Mixtures into Core-Shell using Spray Flash Evaporation (SFE) and Mechanistic Study for Nanodiamonds Synthesis
	Maxence VINCE, French-German Research Institute of Saint-Louis, France
1205 12 25	Aptamer Target Chain Reaction (ATCR) for Smart Therapeutic Inhibitor Development
12:05 - 12: 35	Hung-Wing Li, The Chinese University of Hong Kong, Hong Kong
10.05 10.05	Nano-Reinforced Heating Element for De-icing Applications
12:35 - 13:05	Konstantina Zafeiropoulou, University of Patras, Greece
	Lunch 13:05 - 14:05 @ Gallery
	Poster Presentations
Poster Judge	Valeri Ligatchev, Independent Researcher, Singapore
PP-01	Encapsulation and Delivery of a Five-Step Biosynthesis Pathway in a Porous Metal- Organic Framework
	Ainur Sharip, King Abdullah University of Science and Technology, Saudi Arabia
	The Characterization of Hydrogel Contact Lens with Pyridine Group Materials
PP-02	A-Young Sung, Seon-Young Park and Hye-In Park, Daegu Catholic University, South Korea
PP-03	Stabilization of Water/Supercritical CO ₂ Nanodispersions with Highly-Methylated Nonionic Amphiphiles and its Utilization for Nanoparticle Synthesis
	Hiroto lizuka, Hirosaki University, Japan

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PP-04	The Design of a Self-Discharging Filter: Nanotechnology Know-How in the Marine Industry
	Nataliia Tiron-Vorobiova, Danube Institute of National University, Ukraine
PP-05	Accelerated Adsorption and Surface Tension Reduction of Surfactant in Water by Heterogeneous Hydrophobic Chains Having Tms and T-Butyl Groups
	Hinata Komiyama, Hirosaki University, Japan
PP-06	Position-dependent Optical Absorption of A Hydrogenic-like System in Mesoscopic Coupled Quantum Dot-ring: Electric Field Effects
	Nicolás Hernández, Universidad Nacional de Colombia Sede Medellín, Colombia
PP-07	Optical Absorption Calculation of A \mathbf{D}_0 System Confined in Semiconductor Quantum Camels
	Ricardo Lopez-Doria, Universidad Nacional de Colombia Sede Medellín, Colombia
PP-08	EGFR Targeted Cabazitaxel Loaded Loaded Lipid-based Nanocarrier: A New Intervention for The Management of The Breast Cancer
	Charu Misra, University of Bradford, United Kingdom
PP-09	Plasmonic Metasurfaces Fabricated by Nano-Imprinting Lithography and Their Optical Applications
	Yung-Chun Lee, National Cheng Kung University, Taiwan
PP-10	Designing and Characterization of Antibody and Fab Fragment Conjugated Niosomal Nanoparticles
	Nilufer Cakir, Sabanci University, Turkey
	Video Presentation
VP-01	Characterization of the Diameter of Aerodynamic Droplets Generated In Nebulizers Using the Image Processing Technique
	Luciana Martins Pereira de Araújo, Jorge Amado University, Brasil
	Day 2 Concludes

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

	Wintered Duncantustinus		
Virtual Presentations			
	Day 1 October 12, 2023		
11:00 - 11:10	Introduction		
Oral Presentations			
11:10 - 11:40	Solid-State Hydrogen Storage Materials Based on Nanostructured Magnesium: Synthesis and Properties		
	Matoke Peter Mose, National Taiwan University of Science and Technology, Taiwan		
11:40 - 12:10	Synthesis and Characterization of Non-Toxic Organo- Modified Layered Double Hydroxide and Clay Nanoplatelet-Polyethyleneterepthalate Nanocomposites		
	Naveen Bunekar, Chung Yuan Christian University, Taiwan		
Keynote Presentation			
12:10 - 12:50	Shape Memory Effect and Thermomechanical Reactions in Shape Memory Alloys		
12:10 - 12:50	Osman Adiguzel, Firat University, Turkey		
	Oral Presentations		
12:50 - 13:20	Novel Green Synthesis of Propolis Pollen Nano-Emulsion and Evaluation of its Physicochemical Properties and Cytotoxicity		
	Dalia MA Elmasry, Agricultural Research Center, Egypt		
	Lunch(13:20 - 13:50)		
13:50 - 14:20	Enhanced Anti-Inflammatory and Ulcerogenicity of Ibuprofen Microsphere Formulations using Irvingia Wombolu Fat (IRW) and Moringa Oil (MO) as Co-Lipids		
	Thaddeus Harrison Gugu, University of Nigeria, Nigeria		
14:20 - 14:50	Multifunctional Hydrogel-based Electrolytes for Thermoelectrochromic Devices		
	Valeria De Matteis, University of Salento, Italy		
14:50 - 15:20	Engineering Microporous Organic Nanospheres as A Drug Carrier		
	Shumaila Razzaque, Institute of Physical Chemistry, Poland		
15:20 - 15:50	Self-Assembled Organic Optical Waveguides		
	Amir Handelman, Holon Institute of Technology, Israel		
15:50 - 16:20	Simulation of Lead-Free Perovskite MAGel3 Solar Cell		
15:50 - 16:20	Hasina Huq, The University of Texas Rio Grande Valley, USA		
	Day 1 Concludes		

	Day - 2 October 13, 2023 BST	
Oral Presentations		
11:00 - 11:30	Preparation and High-performance Electronic Devices of Black Phosphorus Nanoribbons	
	Changxin Chen, Shanghai Jiao Tong University, China	
11:30 - 12:00	Significant Impact of Green Synthesized Nanoparticles in Low-cost Electricity Generation and Antibacterial Applications	
	Bithi Paul, American International University, Bangladesh	
12:00 - 12:30	Magnetically Separable Nanocomposite Beads for Radionuclides Adsorption from Aqueous Solution	
	Manish Sharma, Malaviya National Institute of Technology, India	
12:30 - 13:00	Influence of Biofiber Reinforcement Materials on the Mechanical strength of the Hybrid Composite Materials	
	VV Venu Madhav, V.R. Siddhartha Engineering College, India	
13:00 - 13:30	Nano-Materials Challenges; for Industrial Applications	
13:00 - 13:30	IK Battisha, National Research Centre, Egypt	
13:30 - 14:00	Dielectric Behaviour of Blended Mineral Oil with Vegetable Ester Containing TiO ₂ Nanoparticles	
	Prabhat Kumar Maiti, Regional Testing Laboratory, India	
	Poster Presentations	
14:00 - 14:15	Green Synthesis and Characterization of ZnO Nanoparticles by using Bryophyllum Pinnatum Leave Extract and Its Antibacterial Application	
	Monika Paul, National University, Bangladesh	
1415 1420	TXTL System for Fast Decode Synthetic Spidroins	
14:15 - 14:30	Valquíria A. Michalczechen Lacerda, Embrapa, Brazil	
14:30 - 14:45	The Design of a Self-Discharging Filter: Nanotechnology Know-How in the Marine Industry	
	Nataliia Tiron-Vorobiova, Danube Institute of National University, Ukraine	
Day 2 Concludes		