

VIRTUAL CONFERENCE ON

MATERIALS SCIENCE & ENGINEERING

Theme:

“Outlining the
forefront research
in the field of
materials science and
nanotechnology.

**29-30
MAY
2023**

**Materials
World
2023**

SCIENTIFIC AGENDA

DAY-1 MAY 29, 2023

GMT (GREENWICH MEAN TIME)

GMT Timing	Name & Affiliation	Title
06:50 - 7:00	Introduction & Open Ceremony	
Keynote Presentations		
07:00 - 07:30	Raman Singh <i>Monash University, Australia</i>	Remarkable and Durable Corrosion Resistance of Metals and Alloys due to Ultra-thin Graphene Coatings
07:30 - 08:00	Bunsho Ohtani <i>Nonprofitable Organization touche NPO, Japan</i>	Design, Preparation and Characterization of Photofunctional Nanomaterials Based on Energy-resolved Distribution of Electron Traps
08:00 - 08:30	Ernst Wagner <i>Ludwig-Maximilians- Universität, Germany</i>	Chameleon Nanocarriers for Delivery of RNA Nanomedicines
Oral Presentations		
08:30 - 08:55	Vladislav Bogdanov <i>Progressive Research Solutions, Australia</i>	Plane strain state of composite material reinforced by crystalline fibers in dynamic elastic-plastic formulation
08:55 - 09:20	Shozo Yanagida <i>Osaka University, Japan</i>	Density Functional Theory Molecular Modeling (DFT/MM) Opens Up Materials Science (1): Validating the Critical Role of I3- in N3 Dye-Sensitized Solar Cells (DSSCs) and PbI6 - in perovskite solar cells (PSCs)
09:20 - 09:45	Ho Soonmin <i>INTI International University, Malaysia</i>	Metal chalcogenide thin films
09:45 - 10:10	Norsyahidah Mohd Hidzir <i>Universiti Kebangsaan Malaysia, Malaysia</i>	Protein Adsorption on Modified Smart Biomaterials ePTFE

10:10 - 10:30 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentation Continues...

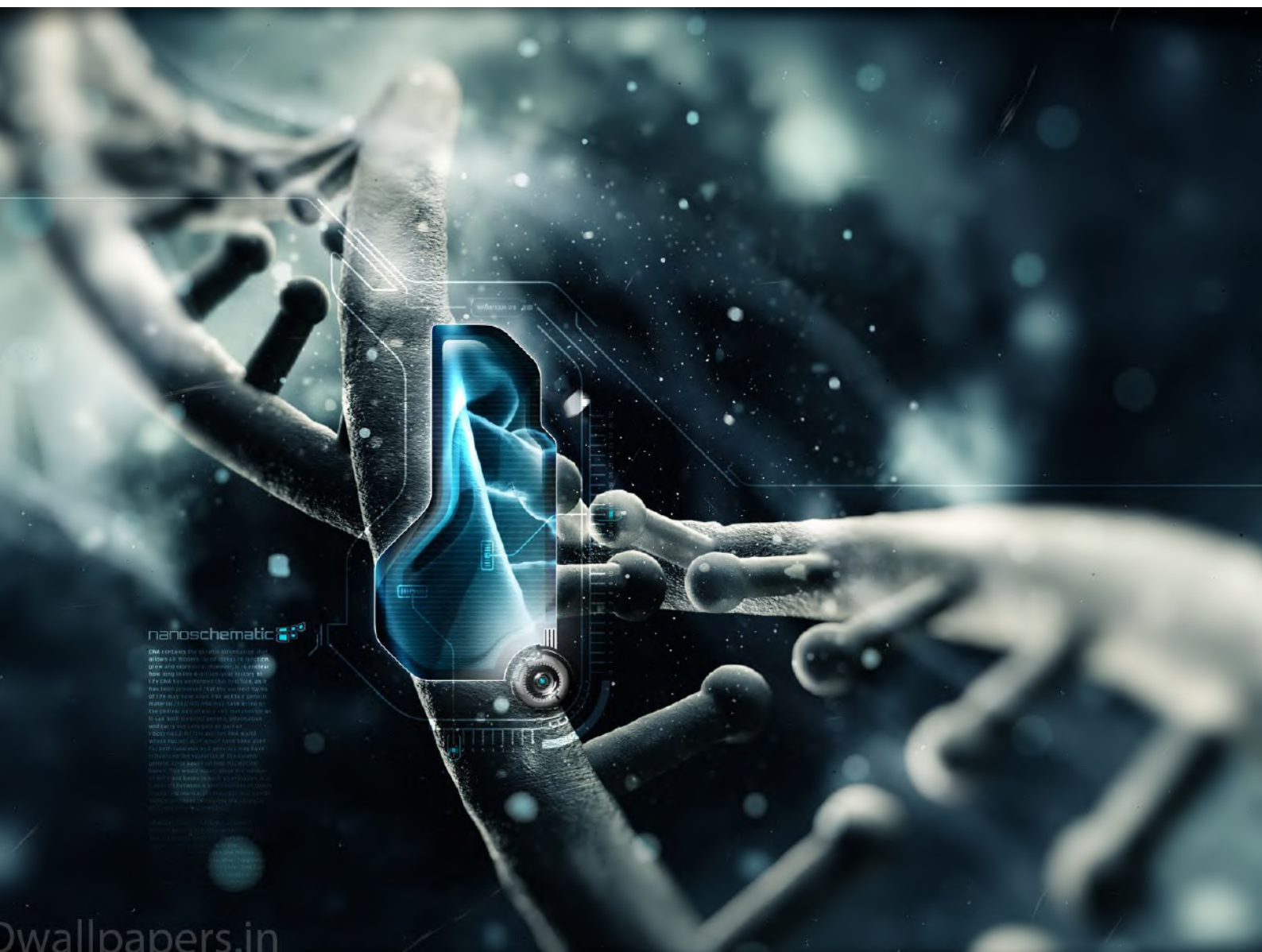
10:30 - 10:55	Fang-Chi Hsu <i>National United University, Taiwan</i>	Conjugated Polymer as Electron Transport Layer for Organic Solar Cells
10:55 - 11:20	Chi-Ping Li <i>National United University, Taiwan</i>	Tungsten Trioxide Nanocrystal Films for Electrochromic Windows
11:20 - 11:45	Vladimir G Chigrinov <i>Hong Kong University of Science and Technology, Hong Kong</i>	Photoalignment and photopatterning nanosize azodye layers : new trends for liquid crystal technology
11:45 - 12:10	Bapan Adak <i>Nanyang Technological University, Singapore</i>	Green synthesis of multifunctional Cellulose/GO nanocomposites
12:10 - 12:35	Attapon Cheepsattayakorn <i>Western University, Thailand</i>	Nanotechnology for COVID-19 Therapeutics Through Nasopharyngeal Inhalation Aerosols into the Lungs

12:35 - 13:55 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentation Continues...

13:55 - 14:20	Sunil Kumar Pradhan <i>Vellore Institute of Technology, Chennai, India</i>	Synthesis and Analysis of Carbon-Based Quantum Dot
14:20 - 14:45	Munusamy Thirumavalavan <i>Saveetha Engineering College, India</i>	Green Synthesized Chitosan- ZnO nanocomposite for Pharmaceutical applications
14:45 - 15:10	Subas Chandra Dinda <i>The Neotia University, India</i>	Mucoadhesive microcapsules: A novel approach in Therapeutic Targeting!

15:10 - 15:35	Seongwoo Woo <i>Ethiopian Technical University, Ethiopia</i>	Improving the Fatigue Design of Mechanical Systems such as Refrigerator
15:35 - 16:00	Artur Kasprzak <i>Warsaw University of Technology, Poland</i>	Breaking a barrier of practical applications of sumanene: A magnetic nanoadsorbent for the effective removal of cesium cations from aqueous solutions
16:00 - 16:25	Roland Wiśniewski <i>Warsaw University of Technology, Poland</i>	Synthesis of elements and solid structures in atomic-nuclear reactions in dense gases and dense gas – metal systems as a result of proper gamma quantum irradiation, theory of effects, possibility of production of the new solid objects and desired nuclei
Keynote Presentations		
16:25 - 16:55	Leelakrishna Reddy <i>University of Johannesburg, South Africa</i>	Advancements of calcium-based host phosphor materials for phototherapy applications
*** End of Day 1 ***		



SCIENTIFIC AGENDA

DAY-2 MAY 30, 2023

GMT (GREENWICH MEAN TIME)

GMT Timing	Name & Affiliation	Title
Oral Presentations		
09:00 - 09:25	Gunnar Suchaneck <i>TU Dresden, Solid-State Electronics Laboratory, Germany</i>	Nonstoichiometric strontium ferromolybdate as an electrode material for solid oxide fuel cells
09:25 - 09:50	Klaus-Ulrich Neumann <i>SRH University Berlin, Germany</i>	The I-V curve of a PV panel: characterization and parameter extraction
09:50 - 10:15	Osman Adiguzel <i>Firat University, Turkey</i>	Thermoelasticity Superelasticity and Lattice Reactions in Shape Memory Alloys
10:15 - 10:40	Carmine Antonio Perroni <i>University of Naples Federico II, Italy</i>	Gate tunable anomalous Hall and Edelstein effect at oxide interfaces
10:40 - 11:05	Mocerino Consiglia <i>Sapienza University of Rome, Italy</i>	Resilient Nanotechnologies in Intelligent Buildings
11:05 - 11:30	Luis Porta-Velilla <i>University of Zaragoza-CSIC, Spain</i>	Impact of grain orientation on the generation of surface nanostructures on polycrystalline metals using a 300 ps UV laser
Poster Presentations		
11:30 - 11:50	Ricardo Dominguez Reyes <i>Universidad Carlos III de Madrid, Spain</i>	Positron Annihilation Spectroscopy applied to CuCrFeVTi High-Entropy Alloy

11:50 - 12:10	Ghada Ben Salah <i>Qassim University</i> <i>Saudi Arabia</i>	A Polymer Loaded With Pomegranate Peel as a Promising Antiulcerogenic Biomaterial
12:10 - 12:30 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)		
Oral Presentation Continues...		
12:30 - 12:55	Nilanthy Balakrishnan <i>Keele University</i> <i>United Kingdom</i>	InSe-based van der Waals heterostructures for emerging technologies
12:55 - 13:20	Diogo Miguel Franco dos Santos <i>Universidade de Lisboa</i> <i>Portugal</i>	N-Doped Graphene from PET Bottles Waste as an Effective Electrocatalyst Support
13:20 - 13:45	Marisa Frechero <i>Universidad Nacional del Sur,</i> <i>Argentina</i>	Complex permittivity method to determine the devitrification process in a glassy matrix. The correlation between the a.c. electrical behaviour and the non isothermal nucleation
13:45 - 14:10	Z Kovziridze <i>Georgian Technical University,</i> <i>Georgia</i>	The Formula of Dependence of Mechanical Characteristics of Materials on Crystalline Phase Composition in the Matrix
Keynote Presentations		
14:10 - 15:40	Sergey V. Suchkov <i>Institute of Biotech & Global Health of RosBioTech and A.I. Evdokimov MGMSU, Russia</i>	Personalized and Precision Medicine (PPM) as a Unique Healthcare Model to Be Set Up through Biodesign-Inspired Biotech-driven Translational Applications and Upgraded Business Marketing to Secure the Human Healthcare, Wellness and Biosafety
15:40 - 16:10	Thomas J Webster <i>Interstellar Therapeutics</i> <i>USA</i>	4D Printing: Remote and Wireless Control of Implanted Material Shape and Size
16:10 - 16:40	Vistasp M. Karbhari <i>University of Texas</i> <i>Arlington, USA</i>	Hygrothermal Durability of E-Glass/ Vinylester Composites
16:40 - 17:00 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)		

Oral Presentation Continues...

17:00 - 17:25	Digby Macdonald <i>University of California, Berkeley</i>	The Scientific Basis of Our Reactive Metals Based Civilization
17:25 - 17:50	Yuri Lyubchenko <i>University of Nebraska Medical Center, USA</i>	Nanoassembly of amyloid proteins at the membrane-liquid interface
17:50 - 18:15	Betty Li <i>National Research Council of Canada, Canada</i>	Microfluidic-based 3D bioprinting of vascular endothelial networks for tissue engineering applications
18:15 - 18:40	Pavle Radovanovic <i>University of Waterloo Canada</i>	Controlling Exciton Polarization in Plasmonic Semiconductor Nanocrystals

*** End of the Conference ***

