

FINAL PROGRAM

3rd Edition of International Conference on

MATERIALS SCIENCE AND ENGINEERING

21-22

SEPT 2022

VIRTUAL EVENT

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DAY 01

WEDNESDAY, SEPTEMBER 21

KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30 - 10:00		AV Check
10:00 - 10:10		Introduction
10:10 - 10:50	13:10 - 13:50	Dror Malka, Holon Institute of Technology, Israel Title: An optimal design of silicon PIN phase-shifter for high-speed communication applications
10:50 - 11:30	16:20-17:00	Govind Gupta, CSIR-National Physical Laboratory, India Title: Semiconductor heterostructure based detectors for optical communication
11:30 - 12:10	14:30-15:10	Osman Adiguzel, Firat University, Turkey Title: Crystallographic basis of thermal and mechanical reversibility in shape memory alloys

ORAL PRESENTATIONS

12:10-12:30	20:10-20:30	Huichao Jin, Jilin University, China Title: Novel marine antifouling coatings inspired by corals
12:30-12:50	20:30-21:10	Zhenghao Chen, Beijing Forestry University, China Title: Green and highly efficient method for improving interfacial behavior of bamboo fiber reinforced poly- β -hydroxybutyrate biocomposites using mussel-inspired polydopamine with biological enzyme-catalyzation
12:50-13:10	14:50-15:10	Idurre Kaltzakorta, TECNALIA RI, Spain Title: Ingot size effects during manufacturing and forging low density steels.
13:10-13:30	18:40-19:00	Debashis Mahato, Indian Institute of Technology, India Title: CuO-ZnO based hybrid system: A durable and efficient electrocatalyst for oxygen reduction reaction
13:30-13:50	19:00-19:20	Aparna M L, Indian Institute of Technology, India Title: Bitter gourd pericarp derived porous activated carbon for high energy density supercapacitor devices
13:50-14:10	19:20-19:40	Payal Bhardwaj, University of Mysore, India Title: Electrical impedance analyzer: Recent technique for biomaterial characterization
14:10-14:30	19:40-20:00	T S Murugesh, Government College of Engineering Srirangam, India Title: Design of a wearable for suppression of hand tremors

14:30-14:50	20:00-20:20	Sunil Yadav, IIT, India Title: Numerical study of iron ore reduction in midrex shaft
14:50-15:10	20:20-20:40	T S Murugesh, Government College of Engineering Srirangam, India Title: Design of a smart wearable for human fall detection
15:10-15:30	20:40-21:00	Baskaran Ramalingam, CSIR-central Leather Research Institute, India Title: Biomaterial functionalized graphene-magnetite nanocomposite: A novel approach for simultaneous removal of anionic dyes and heavy-metal ions
15:30-15:50	19:30-19:50	Mohammed Al Bahri, A'Sharqiyah University, Oman Title: Magnetization thermal stability in magnetic nanowires for nanodevices memory
15:50-16:10	21:20-21:40	Srabanti Ghosh, CSIR India, India Title: Conducting polymer nanostructures for visible light-driven photocatalysis: Mechanisms, challenges, and design strategies
16:10-16:30	21:40-22:00	Gunadhor Singh Okram, UGC-DAE Consortium for Scientific Research Indore, India Title: Thermoelectrics near room temperature
16:30-16:50	22:00-22:20	Jitendra Kumar Katiyar, SRM Institute of Science & Technology, India Title: Tribo-corrosion analysis of composite coating for mechanical applications
16:50-17:10	22:20 - 22:40	S Shamim Rishwana, Kamaraj College of Engineering and Technology, India Title: Application of reactive Metal Organic Framework (MOF) in high temperature bismaleimide based thermoset polymers
17:10-17:30	20:10 - 20:30	Ekaterina Politova, Russian Academy of Sciences, Russian Federation Title: New lead-free perovskite materials on the base of sodium-potassium niobate and sodium-bismuth titanate oxides
17:30-17:50	22:30-22:50	Najam ul Hassan, University of Education, Pakistan Title: Effect of Ni/Mn ratio on magneto structural coupling and magneto caloric effect in MnCoGe alloys
17:50-18:10	22:20-22:40	Ali Mianehro, Amirkabir University, Iran Title: Optimization of the synthesis process of the nanomaterials onto the various substrates
18:10-18:30	23:40-24:00	Debashis Mahato, Indian Institute of Technology, India Title: CuO-ZnO based hybrid system: a durable and efficient electrocatalyst for oxygen reduction reaction
18:30-18:50	21:30-21:50	Carja Gabriela, Gheorghe Asachi University of Iasi, Romania Title: Synergistic behavior between the nanounits of gold nanoparticles/2-D matrix of layered double hydroxides heterostructures for facilitating plasmonic catalysis
18:50-19:10	19:50-20:10	Guilherme Ascensao, University of Aveiro, Portugal Title: Self-leveling screeds with enhanced thermal properties for radiant floor systems

19:10-19:30	16:10-16:30	Gabriela Rivera Hernandez, Universidad Nacional de Quilmes, Mexico Title: Injectable hydrogels as drug delivery systems for cancer treatment
19:30-19:50	21:30-21:50	Laura Crociani, Italian National Council of Research, CNR, Italy Title: Confinement of antifouling substances in SiO ₂ nanocontainers
19:50-20:10	14:50-15:10	Naveen Kumar Reddy Bogireddy, National Autonomous University of Mexico, Mexico Title: Pyridinic N anchored Ag and Au hybrids for detoxification of Organic pollutant
20:10-20:30	21:10-21:30	Atefeh Golbang, Ulster University, United Kingdom Title: Improving interlayer bonding and strength in 3D-printed thermoplastics

DAY 02

THURSDAY, SEPTEMBER 22

KEYNOTE PRESENTATIONS

GMT Timings	Local Timings	
09:30-10:00		AV Check
10:00-10:40	11:00-11:40	Bala Vaidhyanathan, Loughborough University, United Kingdom Title: 2D/3D Manufacture of advanced ceramics for demanding applications
10:40-11:20	13:40-14:20	Yarub Al Douri, American University of Iraq, Iraq Title: A correlation between nanotechnology and renewable energy

POSTER PRESENTATIONS

11:20-11:30	16:50-17:00	Parth Mehta, Indian Institute of Technology, India Title: Stability optimization of NaBH_4 via pH and $\text{H}_2\text{O}:\text{NaBH}_4$ ratios for large scale hydrogen production
11:30-11:40	14:30-14:40	Theodor Bahnariu, Technical University Gheorghe Asachi of Iasi, Romania Title: Engineering layered double hydroxides- based catalysts for photocatalytic water remediation
11:40-11:50	17:10-17:20	Goverdhan Reddy Turpu, Guru Ghasidas Vishwavidyalaya, India Title: Photodegradation of methylene blue dye by hydrothermal prepared V_2O_5 - rGO composite

ORAL PRESENTATIONS

11:50-12:10	20:50-21:10	Sadia Ameen, Chonbuk National University, Korea, Republic of Title: Multi-dimension metal oxides and organic electronic catalysts for environmental remediation
12:10-12:30	20:10-20:30	Yankun Dou, China Institute of Atomic Energy, China Title: First-principles study of vacancy defects in TiVTa and TiVTaNb concentrated solid-solution alloys
12:30-12:50	20:30-20:50	Weiyong Yuan, Innovation Center, Zhejiang University, China Title: Self-assembled hematite-based core-shell nanostructured arrays as photoanodes for water splitting
12:50-13:10	22:50-23:10	Alexander Gournalnik, Institute of Automation and Control Processes FEB RAS, Russian Federation Title: Mg_2Si film growth paradigm: How and Why. Perfect Mg_2Si films for light and heat conversion into electricity

13:10-13:30	20:10-20:30	Yuliya Bespalko, Boreskov Institute of Catalysis, Russian Federation Title: Simple approaches to the fabrication of materials (oxides, alloys, nanocomposites) using supercritical isopropanol
13:30-13:50	19:00-19:20	Sivasubramanian Palanisamy, Dilkap Research Institute of Engineering and Management Studies, India Title: Utilization of untreated acacia caesia fiber particle as novel filler in natural rubber
13:50-14:10	19:20-19:40	Helen Annal Therese, SRM Institute of Science and Technology, India Title: Hierarchical 2D and 1D Transition metal sulfide nanostructures for energy storage application
14:10-14:30	19:40-20:00	Sivasubramanian Palanisamy, Dilkap Research Institute of Engineering and Management Studies, India Title: Physical, chemical and mechanical characterization of Natural Bark Fibres (NBFs) reinforced polymer composites
14:30-14:50	20:00-20:20	R.K. Dwivedi, IIIT Noida, India Title: Compositionally driven polarization and structural transitions in PZT substituted BiFeO ₃ ceramics
14:50-15:10	19:50-21:10	Uroosa Ejaz, Shaheed Zulfikar Ali Bhutto Institute of Science and Technology, Pakistan Title: Utilization of halophytic plants for the formation of biodegradable plastic
15:10-15:30	18:10-18:30	Seongwoo Woo, Addis Ababa Science & Technology University, Ethiopia Title: Improving the reliability design of mechanical systems such as refrigerator
15:30-15:50	18:30-18:50	Ahmed F Hasan, University of Diyala, Iraq Title: CFD using code in materials engineering
15:50-16:10	20:20-20:40	Saman Momeni, Sharif University of Technology, Iran Title: An investigation of material effects on the dynamic behavior of composite materials incorporated with MR-fluid using an N-layer model
16:10-16:30	19:10-19:30	Oana Gingu, University of Craiova, Romania Title: Biocomposites for the bone reconstruction – current approaches and future trends in research, applications and education

KEYNOTE PRESENTATIONS

16:30-17:10	09:30-10:10	Ephraim Suhir, Portland State University, United States Title: Probabilistic design for reliability concept in electronics and photonics materials science: Role, significance, attributes, challenges
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ORAL PRESENTATIONS

17:10-17:30	20:10-20:30	Bayram Gunduz, Malatya Turgut Ozal University, Turkey Title: Importance and future of optoelectronic materials science and engineering in interdisciplinary science fields
17:30-17:50	20:30-20:50	Hasan Kotten, Istanbul Medeniyet University, Turkey Title: Time-dependent corrosion resistance investigation of hydrophobic magnesium alloys

17:50-18:10	20:50-21:10	Hasan Kotten, Istanbul Medeniyet University, Turkey Title: Hydraulic performance of a centrifugal pump and hydrophobic surface effects
18:10-18:30	22:40-23:00	Mohammad Hossein Mahdieh, Iran University of Science and Technology, Iran Title: Production of colloidal Ag-Au alloy nanoparticles by nanosecond laser ablation and influence of DC electric field
18:30-18:50	21:30-21:50	Songul Flat Varol, Manisa Celal Bayar University, Turkey Title: n-ZnO/p-GaN LED heterostructure near UV-Blue LED with AlN electron blocking layer
18:50-19:10	20:50-21:10	Thorsten H Becker, University of Cape Town, South Africa Title: The influence of high-energy process parameters on the prior beta grain structure of additively manufactured titanium alloys
19:10-19:30	21:10-21:30	Promod Kumar, University of the Free State, South Africa Title: Fabrication of plasmonic nanostructures for SERS applications
19:30-19:50	22:30-22:50	Geetha Bolla, Bengurion University, Israel Title: Halogen bond cocrystals: Tailoring multiple radiative decay pathways for amplified spontaneous emission

UPCOMING CONFERENCES

4th Edition of International Conference on
Materials Science And Engineering

March 13-15, 2023 | Singapore | Hybrid Event

<https://magnusconferences.com/materials-science/>

5th Edition of International Conference on
Materials Science and Engineering

September 2023 | Hybrid Event

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