GCMN 2027

3rd Global Conference on

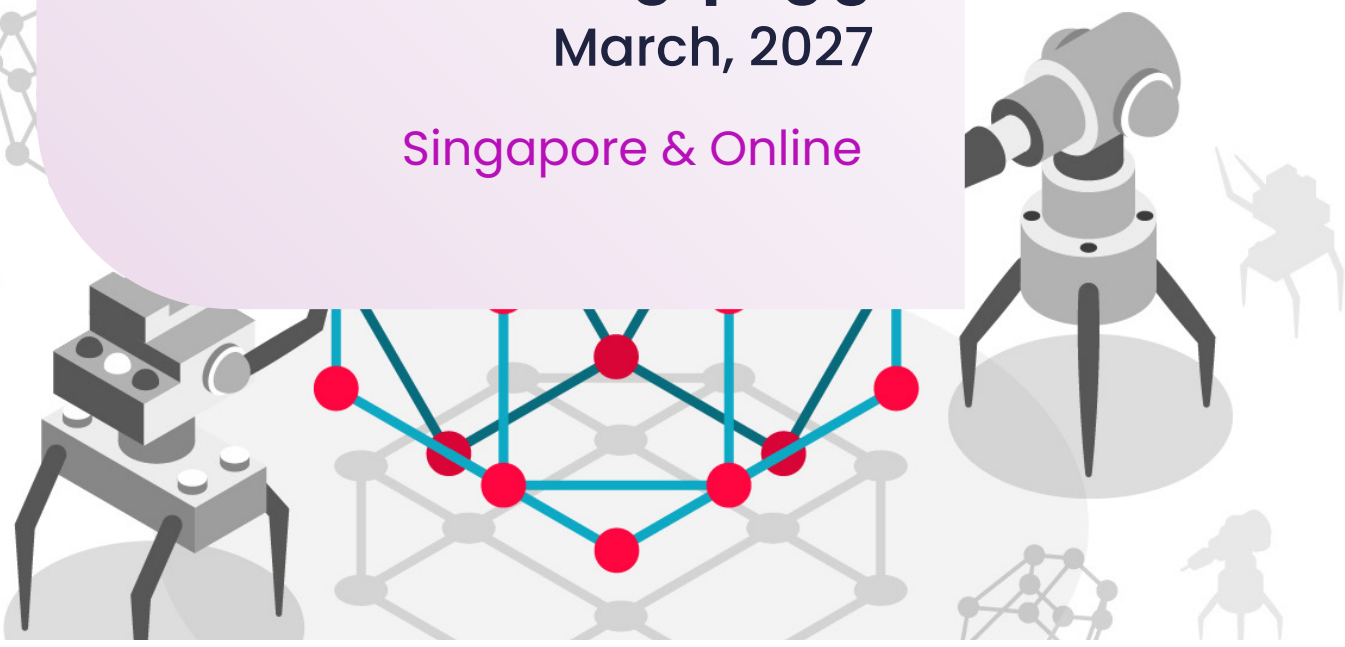
Material Science and Nanotechnology

Tentative Program

Theme: Breakthrough Innovations in Material Science and Nanoscale Engineering

04–06
March, 2027

Singapore & Online



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Keynote Presentations (In Person)

Orlando Auciello *Texas State University, United States*	Title: Materials science of transformational multifunctional films and their integration into new generations of superior industrial systems, high-tech and biomedical devices and prostheses to improve way/quality of life
Sergey Suchkov *N. D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation*	Title: Personalized and precision medicine (ppm): a unique healthcare model through bio-design inspired and biotech-driven translational applications, strategic partnerships, and next-generation healthcare marketing for human health and biosafety
Kakasaheb C. Mohite *Savitribai Phule Pune University, India*	Title: Nanomaterials for advanced photovoltaic applications - a review

Keynote Presentations (Virtual)

Paulo Cesar De Morais *Catholic University of Brasilia, Brazil*	Title: Unveiling the impact of surface thickness coating on magnetic nanoparticles
Osman Adiguzel *Firat University , Turkey*	Title: Shape memory phenomena and diffusionless phase transformations governing reversibility in shape memory alloys
Subash Chandra Mishra *National Institute of Technology, India*	Title: Economical way of processing bio-char/activated carbon from the wasteland weed Calotropis Gigantea and its characterizations for suitable applications
S.V.A.R.Sastry *Harcourt Butler Technical University, India*	Title: 2D Nanomaterial based bio lubricant additives for improved efficiency and environmental sustainability in automotive applications

Oral Presentations (In Person)

Naghmeh Abbasi *University of Pittsburgh, USA*	Title: 3D Bioprinted PAH vascular platform reveals altered mechanosensing in BMPR2 deficiency
Sergey Suchkov *N. D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation*	Title: The promise of nanotechnology in personalized & precision medicine: Drug discovery & development being partnered with biopolymers and nanotechnologies via the revolution at the biodesign
Sergey Suchkov *N. D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation*	Title: Antibody-proteases as a generation of unique biomarkers, potential targets and translational tools towards nanodesign-driven biotech, translational applications and personalized and precision medical practice
Muzammil Ahmed Khan *RMIT University, Australia*	Title: Effect of soft-phase fraction and interlayer nesting on the deformation and energy absorption of sea-sponge spicule-inspired multimaterial polyjet lattices
Lin Zhang *Shanghai Jiao Tong University, China*	Title: Programmed assembly and interactivity of aster-like DNA condensate droplets

Rakesh manilal harjivandas patel *Gujarat Arts and Science College, India*	Title: An interdisciplinary invited-talk manuscript connecting materials science with quantitative decision-making, responsible innovation, environmental governance and deployable industrial practice

Oral presentation (Virtual)

Benedykt Michal Josef *Campbell Biezanek Researcher, United Kingdom*	Title: Explaining where einstein went wrong with his special theory
Liang Tian *Xi'an Jiaotong University , China*	Title: Conductive composite materials for electric cables solar cell gridlines and flexible sensors
Teodor Trance *Diac servicii srl, Romania*	Title: Applications of AI in non-destructive examinations
Seddiki *University Mhamed Bougara, Algeria*	Title: Development, synthesis and characterization of nanoclay-based polymer nanocomposites
Andrey Belousov *Intensive Care Kharkiv National Medical University, Ukraine*	Title: Efficacy of the nanotechnology based drug micromage b in achieving clinico radiological regression of reversible white matter lesions in cerebral microvascular pathology
Neeta Nathani *Gyan Ganga Institute of Technology & Sciences, India*	Title: AI-enabled nano biosensors for early detection of neurological disorders
Vaishaliben P. Patel *Indus University Ahmedabad, India*	Title: Scalable synthesis of mxene–nanocomposites for high-efficiency energy storage and structural applications
Sangeeta Yadav *IIIT-Allahabad, India*	Title: Combining biomass-derived carbon dots and hesperidin to explore bacterial oxidative defense against staphylococcus aureus: an experimental and in silico approach
Sachin Sharma Ashok Kumar *Taylor's University, Malaysia*	Title: Optimization of a graphene–titanium dioxide composite in epoxy resin as a corrosion protection material
Mohamed Nageeb Rashed *Aswan University, Egypt*	Title: Preparation and characterization of natural and synthetic polymer muscovite nanocomposite for efficient removal of pollutants
Nelson Marcos Correia Pedro *University of Belgrade, Angola*	Title: Eu2+/Eu3+ doped Al2O3 coatings formed on tungsten by plasma electrolytic oxidation: Photoluminescent properties and application in luminescence thermometry
Nelson Marcos Correia Pedro *University of Belgrade, Angola*	Title: Al2O3:Cr3+ coatings on tungsten substrate synthesized by plasma electrolytic oxidation: photoluminescence and temperature sensing applications
Rachid Masrour *Sidi Mohamed Ben Abdellah University , Morocco*	Title: A2SnX6 (A= Cs, Fr; X = Br, Cl, I) Double perovskites as advanced materials for energy conversion: A first-principles study
Chung-Yuan Kung *National Chung Hsing University, Taiwan*	Title: The direct evidence of relation between penrose tiling and quasi crystal

Shagufta Riaz *National Textile University, Pakistan*	Title: Chemical recycling of textile waste: Advancing sustainability and circularity in the fashion and textile industry
Ayesha Sharif *University of the Punjab, Pakistan*	Polymeric microneedles for transdermal drug delivery

Poster Presentations (In Person)

Lei Wang *Southeast University, China*	Title: Scale-dependent transport of molecular and nanoparticle tracers in the brain extracellular space revealed by longitudinal mri and radiomics

Poster Presentations (Virtual)

Oduntan Abiodun Samuel *Federal University of Technology, Nigeria*	Title: Biosynthesis of zirconium dioxide nanoparticles using ethanol extract of mountain ebony pod at 700 °c and its antifungal application