

INTERNATIONAL CONGRESS ON MATERIALS SCIENCE AND NANOTECHNOLOGY



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Keynote Presentations (In-person)

Frank Muecklich

Saarland University, Germany

Title: New surfaces “without” chemistry? About bioinspired microtopographic material surfaces – And why we sent them also into space

Sergey Suchkov

N.D. Zelinskii Institute for Organic Chemistry of the Russian Academy of Sciences, Russian Federation

Title: Personalized and Precision Medicine (PPM) as a unique healthcare model through biodesign-inspired & biotech-driven translational applications and upgraded business marketing to secure the human healthcare and biosafety

Maria VISA

Transilvania University of Brasov, Romania

Title: TiO₂ and WO₃ semiconductor particles in contact with fly ash for removal the pollutants from waste water

Oleg Dimitriev

V.Lashkaryov Institute of Semiconductor Physics, Ukraine

Title: Management of light emission of near-infrared dyes mediated by nanomaterials: From anti-Stokes to anti-Kasha fluorescence

Thomas J. Webster

Hebei University of Technology, China

Title: 30,000 nanotextured implants in human: No cancer, no infection, only success

Papia Chowdhury

Jaypee Institute of Information Technology, India

Title: Organic based carbon quantum dot: Unique nano-dimensional material as stable white light generator

Keynote Presentations (Virtual)

Osman Adiguzel

Firat University, Turkey

Title: Thermomechanical transformations for thermoelasticity and superelasticity in shape memory alloys

Paulo C. De Morais

Catholic University of Brasilia, Brazil

Title: Cell viability assays under radiofrequency application modulated by nanomaterials

Vladimir Chigrinov

Hong Kong University of Science and Technology, Hong Kong

Title: Azodye nanolayers: New trend in liquid crystal devices

Oral Presentations (In-person)

Mitra Mosharraf

HTD Biosystems, United States

Title: Artificial intelligence in nano drug delivery: From formulation design to clinical translation

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 nanotechnologies via the revolution at the nanoscale

Aleksandr S. Kamzin

Ioffe Physical-Technical Institute RAS, Russian Federation

Title: Magnetic nanocomposites for future theranostic medicine: Diagnostics (MRI and MPI) and Magneto-HyperThermic Treatment (MHT)

Shenmin Zhu

Shanghai Jiao Tong University, China

Title: Functionalization of cellulose nanocrystals and its application as biomaterials

Amensisa Negasa Begi

Shandong University, China

Title: Low-concentration H₂S gas sensors based on MOF-derived Co₃O₄ nanomaterials

Yige Zhao

Zhengzhou University, China

Title: Sandwich-like composite with two-dimensional van der waals heterojunction as high-performance electrocatalyst for zinc-air battery

Aneeqa Masood

South China University of Technology (SCUT), China

Title: Eco-Friendly flexible energy storage: Cerium-Doped natural fiber composite electrodes

Angyang Yu

Huzhou University, China

Title: Theoretical insights into epitaxial graphene grown on SiC

Kundan Sharma

Govt. College Nagrota Bagwan, India

Title: Fluorescence and surface studies of the biologically active molecules with Industrially important Ionic surfactants

Ardhendu Sekhar Giri

Indian Institute of Science Education and Research
Bhopal, India

Title: Synthesis of plasmonic hybrid novel polymeric graphitic carbon nitride/
TiO₂ photocatalyst and its engineering applications

Taoreed Adesola Adegbola

Tshwane University of Technology, South Africa

Title: Effects of pores distribution on tensile strength of recycled polyacrylonitrile
and polyethylene terephthalate blends

Aghapy Yermans Yakoup

Zewail City of Science and Technology, Egypt

Title: Characterization, antibacterial, and cytotoxic activities of silver
nanoparticles using the whole biofilm layer as a macromolecule in biosynthesis

Oral Presentations (Virtual)

Meiyang Gao

University of California, United States

Title: Structurally precise coordination compounds: Applications in the
separation and conversion of c-compounds

Adina Boldeiu

National Institute for Research and Development in
Microtechnologies, Romania

Title: Metallic nanoparticles assemblies for efficient SERS detection of organic
pollutants

Yarub Al Douri

European Academy of Science, Belgium

Title: Nanotechnology overview of engineering

Fu Yabo

Taizhou University, China

Title: Furnace of electromagnetic heat field application in preparation of solid
hydrogen storage alloy by casting method

Pillai Vijay Mohanan

Indian Institute of Science Education and Research,
India

Title: Electrolytic properties of two dimensional materials as quantum dots

Sujit Kumar Bandyopadhyay

Variable Energy Cyclotron Centre, India

Title: Multifunctional nanostructured materials: A new dimension in energy
storage materials

Mamata Pradhan

JSW Steel Coated Products Private Limited, India

Title: Smart-multifunctional nano coatings

Shivaprasadagouda Patil

J.S.S. Arts, Science and Commerce College, India

Title: Estimation of photophysical, electrochemical, computational and fluorescence quenching studies of thiadiazole derivative

Shamal Sen

IPS Academy, Institute of Engineering & Science,
India

Title: Sustainable wastewater treatment using green adsorbents: Advancing materials for a cleaner future

DJEBBAR Mustapha

Mustapha Stambouli University of Mascara, Algeria

Title: Simulation and optimization of the effect of a pollutant adsorbed by clay

Hyginus Chidiebere Onyekachi Unegbu

Ahmadu Bello University, Nigeria

Title: Smart materials for noise and vibration damping in high-speed rail systems: A comparative analysis

Shahab Ahmadi Seyedkhani

Sharif University of Technology, Iran (Islamic
Republic of)

Title: Cutting-Edge biomaterials for next-Generation brain-Computer interfaces

Oral presentation slots available for both in-person and virtual participation!

Poster Presentations (In-person)

MARINESCU Maria - Roxana

National Institute for Research and Development in
Microtechnologies (IMT-Bucharest), Romania

Title: The integration of montmorillonite in humidity sensor development

Cristina Pachi

National Institute for Research and Development in
Microtechnologies (IMT-Bucharest), Romania

Title: Spray deposition of carbon-zinc oxide nanomaterials: A scalable approach for advanced electroshielding and flexible electronics

Ruiyv Bai

China University of Petroleum, China

Title: Construction of environment-friendly proline mannich quaternary ammonium salt and its synergistic effect on corrosion inhibition of carbon steel

Weidong Wang

China University of Petroleum, China

Title: Research and performance evaluation of a temperature-resistant and shear-resistant nano-clean fracturing fluid system

Yizhuo Ge

China University of Petroleum, China

Title: Effect of ZnCl₂ on the performance of antiscaling nanoparticles for long-lasting extrusion injection

OBAIAH.G.O.

Karnataka State Open University, India

Title: Potential use of platinum doped ceria (Ce 0.95 Pt 0.05 O₂) through low temperature solution combustion method

Poster presentation slots available for both in-person and virtual participation!
