

Room	BETA 1	BETA 2	GAMMA	KSI
Thursday 12 September				
	Nanobiomedical Research & Applications	Superconductivity in Nanoscale & Mesoscopic Systems	Nanomaterials for Energy & Environment	Nanosensors, Nanodevices & Applications
8:30-8:45	A. Popov et al. Improvement of Biosensors Through the Use of Advanced Nanomaterials	O. Dobrovolskiy et al. Vortex Jets in 2D and 3D Superconductor Nanomembranes	A. Zavabeti et al. Exploring Gas-Metal Alloy Nano Interfaces for Developing Self-powered Devices and Sustainable Applications	I. Iatsunskiy et al. Photoluminescence Label-Free Biosensors: Current Trends and Perspectives
8:45-9:00				
9:00-9:15	A. Ramanaviciene et al. Some Aspects of the Development of Nanomaterial-Based Immunosensors	V.M. Fomin et al. New Topological Transitions in Superconductor 3D Nanoarchitectures	A. Yilmazer et al. Leveraging Omic Biology for the Advancement of Cancer Nanotherapies	L. Mikolajunaitė et al. Plasmonic Nanoparticles for UV-SERS Probing of Biomolecules
9:15-9:30				
9:30-9:45	A. Keller et al. DNA Nanostructures for Antimicrobial Therapy	P. Samuely et al. Ising Superconductivity and Anisotropy in Noncentrosymmetric Quasi-2D Systems	A. Laikhtman et al. Functionalized Porous WS2 Nanostructures for Improved Performances in Hydrogen Evolution Reaction and Photovoltaics	O. Lupan et al. Sensors Based on Hybrid Materials for Environmental, Industrial and Biomedical Applications
9:45-10:00				
10:00-10:15	A. Nicolae-Maranciuc et al. STABLE PEG-SILVER NANOPARTICLES BIOMATERIAL FOR MEDICAL APPLICATIONS	P. Mikheenko et al. Nanoscale Room-Temperature Superconductivity in Biological Systems	Yu. Bondar et al. Fabrication of Nanocomposite Adsorbent Based on Manganese Dioxide-loaded Zeolite for Enhanced Removal of Cadmium from Contaminated Waters and Soils	M. Khodadadiyazi et al. Laser-Induced Graphene (LIG) Based Electrodes for Biosensing Applications
10:15-10:30	A. Alsadig et al. Beyond Immunotherapy: Synergizing Target Modules and Gold Nanoparticles for FAP-Positive Cells Sensitization and Photothermal Applications		A. Diraki et al. Removal and Recovery of Dissolved Oil from High-Salinity Wastewater Using Graphene-Iron Oxide Nanocomposites	
10:30-10:45	Coffee break			
10:45-11:00				
	Nanobiomedical Research & Applications	Nanomaterials Synthesis & Self-assembly	Nanomaterials for Energy & Environment	Nanomagnetism & Magnetic Materials
11:00-11:15	M. B. Lodi et al. Modeling of Nanomaterials for Empowering Radiofrequency and Microwave Hyperthermia Treatment	E. Coy et al. Hybrid Multilayered Heterostructures for Energy Applications Based on Easily Transferable Polydopamine Films	M.L. Malati et al. Monitoring and Optimizing the Biocatalytic Degradation of Efavirenz With Immobilized Trametes Versicolor Laccase on Ti2ntx Mxene: a Lab-Scale Wastewater Treatment Plant Process	X. Wang et al. SPIN WAVE AMPLIFICATION THROUGH SUPERRADIANCE
11:15-11:30			V. Chornii et al. Synthesis and Optical Properties of Pr-doped K2O-B2O3-P2O5-Bi2O3 Glasses	
11:30-11:45	M. Vitazkova et al. Magnetic mesoporous bioactive glass nanoparticles co-doped with cobalt and boron for enhanced angiogenesis	A. Gruzman et al. Mimicking Neuroigin-2 (NL-2) Function in Pancreatic β -cells by Nanocomposites as a Novel Approach for Antidiabetic Therapy	V.D. Awasthi et al. Expedient Arsenic Removal from Drinking Water by An Iron-Manganese Binary Oxide Nanoparticle-Nylon 6 Fibre-Based Adsorbent	Z. Yuan et al. Quantum Oscillation of Gilbert Damping in Ultrathin Fe Films
11:45-12:00	S. De Bank et al. Optofluidic Sensors for Enhanced Pharmaceutical Concentration and Purity Analysis	O. Kylian et al. Plasma Polymer Nanoparticles Produced by a Gas Aggregation Source: Challenges Related to their Re-bouncing from a Substrate	L. Khomenkova et al. Spectroscopic and Structural Characterisation of Zirconia Nanopowders with Multicomponent Stabilization for Energy and Environment Application	
Noon-12:15	S. Steponkienė et al. MESENCHYMAL STEM CELLS AS DELIVERY VEHICLES OF NANOPARTICLE-PHOTOSENSITIZER COMPLEXES TO CANCER CELLS	C.N. Mbileni-Morema et al. Fabrication of Polyethersulfone/Reduced Graphene Oxide (rGO) Nanofiltration Membranes for Efficient Removal of Mg ²⁺ Ions from Groundwater	G. Ayyvazyan et al. Light Scattering by Black Silicon Layers	R. Serha et al. Enhancement of Damping in YIG films at MilliKelvin Temperatures due to GGG Substrate
12:15-12:30	L. Macaire et al. Nanodiamonds as Platforms for Improved Drug Delivery	Q. Wu et al. Soft-templated, Mesoporous Co3O4 Thin Films for Electrocatalysis of the Oxygen Evolution Reaction	S. Pabra et al. Engineered Ti3C2Tx MXene Based Multifunctional Electrocatalyst for Wastewater to Hydrogen Generation and Treatment	A. Senturk et al. Magnetic Properties of Sol-gel produced Cerium substituted YIG thin film
12:30-12:45	Lunch break			
12:45-1:00				
1:00-1:30				
1:30-2:00				
	Nanobiomedical Research & Applications	Nanomaterials Synthesis & Self-assembly	Nanophotonics	Theory & Modeling
2:00-2:15	K. Lebedeva et al. Design And Research Of Thermo-Responsive Gelatin-Alginate-Humic Nanocomposite Hydrogels For Controlled Drug Delivery	A. Zak et al. WS2 & MoS2 Nanotubes: From Strengthening of Polymers to Artificial Intelligence	A. Vembris et al. Polymer Photonic Platform for Integrated and Quantum Photonics	P. Zapol et al. Computational Studies of Nanomaterials for Electrochemical Energy Conversion and Storage
2:15-2:30	Vikas et al. ANALYSIS OF SINGLET OXYGEN LUMINESCENCE GENERATED BY PROTOPORPHYRIN IX FOR PHOTODYNAMIC THERAPY			
2:30-2:45	Z. Dudas et al. Hybrid borosilicate aerogels containing Ca(II) for bone regeneration	D. Erb et al. Self-Organized Nanopatterning of Crystalline Surfaces Induced by Ion Irradiation – Numerical Modelling and in-situ Observation	A. Medvids et al. Quantum Cone as Source of Light with Dispersive Spectrum Radiation Distributed Along Cone Height and in Time	R. Eglitis et al. Ab initio Calculations of ABO3 Perovskite Surfaces, Interfaces and Defects Therein
2:45-3:00	S. Yefimova et al. Effect of TiO2 Nanoparticles Defect Structure on their ROS Scavenging Ability			O. Mazur et al. Control of Ferroelectric Domain Structure Formation upon Phase Transition
3:00-3:15	V. Prokopiuk et al. TiO2 NANOPARTICLES WITH THE VARYING Ti4+/Ti3+(Ti2+) RATIO EXACERBATE TBOOH-INDUCED OXIDATIVE STRESS	J. Bai et al. FERROCENE-ENHANCED GROWTH OF MILLIMETERS CARBON NANOTUBE FORESTS	S. Nedilko et al. Optical and Mechanical Properties of Polymer-Oxide - Carbon Nanotubes Composites	J. Wozny et al. Review of Different Functionals for DFT Calculation of Most Common 2D and Bulk Materials Used in Electronics
3:15-3:30	A. Yanovska et al. THE ANTIMICROBIAL EFFECTIVENESS OF THE HYDROXYAPATITE MATRIX LOADED WITH METAL NANOPARTICLES		L. Shevchuk et al. Sorption-luminescence method for determination of mefenamic acid	E.W. Vertina et al. Mxene Property Prediction via Graph Contrastive Learning
3:30-3:45	Coffee break			
3:45-4:00				
	Nanobiomedical Research & Applications	Nanomaterials Synthesis & Self-assembly	Nanosensors, Nanodevices & Applications	Theory & Modeling
4:00-4:15	B.N. Krishnan et al. Locking the SUMO Switch: Inhibiting Rhes and mHTT Interactions Using De Novo Design To Prevent The Spread of Huntington's Disease	M. Pierpaoli et al. Fabrication of Carbon Nanostructured Electrodes via CVD Growth on Micromolded Scaffolds	E. Damerchi et al. Effect of Substrate on the Diffusion Process in Silver Nanowires	Yu. Hizhnyi et al. ELECTRONIC STRUCTURE AND LUMINESCENCE MECHANISMS OF PHOSPHATE-BASED GLASS-CERAMIC COMPOSITES
4:15-4:30	C. Prieto-Medrano et al. Machine Learning-Guided Production of a Self-Nanoemulsifying System for Delivery of Anacardic Acid		A. Benfdila et al. Towards Nanosheet Field Effect Transistors	Y.Y. Yeung et al. Spectroscopic Theories and First-principles Calculations for Using Rare-Earth Ions Doped in Nanofabricated Materials to Build Quantum Computers: Showcases of RE3+ Doped Y2SiO5
4:30-4:45	B. Bielska et al. Biocompatibility of modified chitosan films with human erythrocytes and skin fibroblasts (in vitro)	Interdisciplinary & Miscellaneous Topics	Nanosensors, Nanodevices & Applications	Interdisciplinary & Miscellaneous Topics
4:45-5:00	B. Cipriani et al. A Mesoscale Model for the Diffusion of Nanoparticles in Biological Fluids: the Challenge of the Protein Corona	S. Amyotte. Developments in Indium Evaporation for Bump Bonding Applications	S. Raghavan et al. NICKEL-ZINC BASED NANOMATERIALS FOR ELECTROMAGNETIC COMMUNICATION	S. Dobrotvorsky et al. Scattering of 3D He-Ne laser radiation by periodic and random structures formed by femtosecond and nanosecond laser modification of the surface of stainless steel
5:00-5:15	S. Sert Cok et al. Novel Amine-Functionalized Silica Xerogels for the Adsorptive Removal of Quinolone, β -lactam and Macrolide Group Antibiotics from Water		S. Hari et al. WO3/ZnO NANOCOMPOSITE FOR ANTENNA APPLICATIONS	R.K. Ghadai et al. Effect of Heat treatment over the Mechanical and tribological Properties of the Cr/DLC coating
5:15-5:30				
5:30-6:00				
6:00-7:00	Poster Session 2 (University of Latvia, Jelgavas iela, 3)			
7:00-7:30				
8:00-9:00				
9:00-10:00				
10:00-12:00				