

TUESDAY, SEPT. 10TH, 2024

POSTER SESSION # 1

**BIOPHOTONICS - RIGA SYMPOSIUM - ELECTROCHEMISTRY OF NANOMATERIALS - INTERDISCIPLINARY & MISCELLANEOUS TOPICS -
MULTIFUNCTIONAL THIN FILMS & COATINGS – NANOBIO MEDICAL RESEARCH & APPLICATIONS – NANOMAGNETISM &
MAGNETIC MATERIALS**

University of Latvia, Jelgavas iela, 3

6:00 – 7:30 PM

ID	No	Title	Authors	Track
942		Diagnosis Of Neoplasms In Veterinary Medicine Samples Using Artificial Intelligence	Greta Rupšytė, Renaldas Raišutis, Martynas Maciulevičius, Ilze Matīse-vanHoutana, Mindaugas Tamošiūnas	Biophotonics - Riga Symposium (BP)
976		Introduction about understanding interaction light - biological surfaces: possibility for new electronic materials and devices (PhoBioS)	Dror Fixler	Biophotonics - Riga Symposium (BP)
988		SPECTRAL AND SPATIAL CHARACTERISTICS OF TPPS ₄ AGGREGATES	Greta Tamoliūnaitė, Vilius Poderys, Ričardas Rotomskis	Biophotonics - Riga Symposium (BP)
1009		Multifunctional fluorescence carbon nanoparticles developed from microbiological waste for imaging cancer cells, bacteria, and DNA, adjuvants for viruses and antibiotics, and metal sensors	Anjana D Ghelani, Rajesh K Patel	Biophotonics - Riga Symposium (BP)
1059		An In-based Metal-organic framework/perovskite QD composite for the sensitive optical detection of chloramphenicol antibiotics	SHALINI SINGH, Umesh Tiwari	Biophotonics - Riga Symposium (BP)
1100		Investigation of lensless on-chip microscopy for high-fidelity hologram reconstruction and visualization of pollen samples	Aljaž Murovec, Blaz Cugmas, Eva Štruc, Mindaugas Tamošiūnas, Miran Bürmen, Peter Naglič	Biophotonics - Riga Symposium (BP)
1213		Spectral and Spatial Characteristics of TPPS ₃ and TPPS ₄ Aggregates	Skaistė Talanovaitė, Vilius Poderys, Ričardas Rotomskis	Biophotonics - Riga Symposium (BP)
1239		IMPACT OF BILATERAL THIGH OCCLUSION ON THE REMOTE PHOTOPLETHYSMOGRAPHY SIGNAL RECORDED FROM THE PALM	Zbignevs Marcinkevics, Uldis Rubins, Davids Obuhovskis, Una Undine Zelca, Andris Grabovskis	Biophotonics - Riga Symposium (BP)
913		Synthesis of Low Cost Conductive Ink for the Fabrication of Screen Printed Electrode	DEEPANJALI SHARMA	Electrochemistry of Nanomaterials (EN)
983		Study of Core-Shell Metal-Organic Framework Electrodes for High Performance Supercapacitor Applications	Mansi , Prashant Dubey, Vishal Shrivastav, Shashank Sundriyal, Akash Deep, Umesh Tiwari	Electrochemistry of Nanomaterials (EN)

ID	No	Title	Authors	Track
985		Phosphorus-Modified Reduced Graphene Oxide as a Platform for Simultaneous Electrochemical Detection of Dopamine and Uric Acid	Ruta Aukstakojyte, Rasa Pauliukaitė, Justina Gaidukevič	Electrochemistry of Nanomaterials (EN)
1004		The Role of Citrate-ions in the Codeposition of Tungsten and Rhenium into Electrolytic Nickel Alloys	Yuliya Yapontseva, Tetyana Maltseva, Oleksii Vyshnevskiy, Valeriy Kublanovsky	Electrochemistry of Nanomaterials (EN)
1056		Improvement of β -SiC/por-Si/mono-Si Heterostructures for Supercapacitor Applications by Mitigating Lattice Mismatch and Improving Electrochemical Performance	Yana Suchikova, Sergii Kovachov, Ihor Bohdanov, Ivan Kosogov, Anatoli I Popov, Marina Konuhova	Electrochemistry of Nanomaterials (EN)
1070		Pt-Fe Nanoparticles Supported on Graphene Oxide for Durable Proton Exchange Membrane Fuel Cells	Adriana Marinoiu	Electrochemistry of Nanomaterials (EN)
1071		Production of Nanosized Carbon Electrodes using Acetylene gas for Scanning Electrochemical Microscopy Probe	Vaishali Shrivastav, Disha disha, Ariba Aziz, Wojciech Nogala, Marcin Opałto	Electrochemistry of Nanomaterials (EN)
1085		Seeded Growth of Tungsten Ditetelluride Nanostructures	Darja Dolbe, ANDREJS TEREHOVS, Martins Zubkins, Gatis Mozolevskis, Gunta Kunakova	Electrochemistry of Nanomaterials (EN)
1113		Newly-developed Al-based Metallic Glasses and Nanocrystalline Alloys with Enhanced Corrosion Resistance	Katarzyna Młynarek-Żak, Krzysztof Matus, Rafał Babilas	Electrochemistry of Nanomaterials (EN)
1192		Development of Electrochemical Glucose Sensors Utilizing Gold Nanorods	Marina Sapauskiene, Viktorija Lisyte, Adriana Kuksa, Aleksandr Semis, Almira Ramanaviciene, Anton Popov	Electrochemistry of Nanomaterials (EN)
1232		Gold Nanostructure Mediated Copper Ion Detection Based on Glucose Oxidase Inhibition	Katazyna Blazevic, Jitka Sotolarova, Benediktas Brasiunas, Jaroslav Filip, Almira Ramanaviciene	Electrochemistry of Nanomaterials (EN)
1243		Electrodeposition of Functional Silver-Rhenium Coatings	Oksana Bersirova	Electrochemistry of Nanomaterials (EN)
1321		The resistance of Sb_2Te_3 -CNT heterostructures to oxidation at different humidity levels using the electrochemical impedance spectroscopy	Yelyzaveta Rublova, Juris Katkevics, Jana Andzane, Donats Erts	Electrochemistry of Nanomaterials (EN)
1021		A DFT Study Of TPPS ₄ Monomers, Dimers and Their Absorption Spectra	Laura Baliulyte, Darius Abramavicius	Interdisciplinary & Miscellaneous Topics (IMT)
1107		The Stamped Coal Nanoblend Coking: Law Regulation and Industrial Technology Development Features	Daryna Volodymyrivna Sahalai, Denis Miroshnichenko, Maryna Cherkashyna, Alla Sokolova, Serhiy	Interdisciplinary & Miscellaneous Topics (IMT)

ID	No	Title	Authors	Track
			Kravchenko, Ihor Shulga, Volodimir Lebedev	
1161		Metal Nanoparticles as Maize Growth Promoters, Evaluation of their Antimicrobial Activity and Potential Phytotoxicity	Joanna Trzcińska-Wencel, Patrycja Golińska, Jarosław Tryburski, Natalia Mucha	Interdisciplinary & Miscellaneous Topics (IMT)
1214		Mapping of Geometric Characteristics of Overlay Welded Walls of Aluminum Alloy AA5087	Marián Pavlík, Miroslav Sahul, Martin Sahul, Barbora Ludrovcová	Interdisciplinary & Miscellaneous Topics (IMT)
1225		The Influence of Interlayer Waiting Time on the Temperature Distribution in Aluminium Alloy made with Wire and Arc Additive Manufacturing	Miroslav Sahul, Martin Sahul, Marián Pavlík, Ladislav Kolařík, Tomáš Němec, Barbora Ludrovcová	Interdisciplinary & Miscellaneous Topics (IMT)
1265		Integrated Strategies for Enhancing the Maturity of hiPSC-Derived Cardiomyocytes: A Molecular, Metabolic, and Morphological Approach	Heloise Faure-Gautron, Azzouz Charrabi, Yvonne Sleiman, Thierry Cloitre, Jeremy Fauconnier, Csilla Gergely, Alain Lacampagne, Albano Carlo Meli	Interdisciplinary & Miscellaneous Topics (IMT)
939		The Inhibitory Behavior of Eco-friendly Pigment Based on Montmorillonite Nanoreservoirs	Mariia-Olena Danyliak, Sergiy Korniy	Multifunctional Thin Films & Coatings (MTFC)
950		Fabrication of SALDI-MS Chip with Au Nanoparticles/ZnO Nanorods for Sensitive Detection of Glutathione in Real Samples	Shuzhen Dou, Juan Du, Nan Lyu	Multifunctional Thin Films & Coatings (MTFC)
1087		Encapsulation Layer Stalilized 2D WTe ₂ Materials	Aris Jansons, ANDREJS TEREHOVS, Darja Dolbe, Georgijs Chikvaidze, Jevgenijs Gabrusenoks, Anatolijs Sarakovskis, Gunta Kunakova	Multifunctional Thin Films & Coatings (MTFC)
1165		Developing High Y Content TiAlYN Coatings: Structure and Adaptive Tribological Behavior	Olga Maksakova, Vyacheslav Beresnev, Sergiy Lytovchenko, Zaoli Zhang, Martin Sahul	Multifunctional Thin Films & Coatings (MTFC)
1169		STRUCTURE AND HARDNESS OF DETONATION COATING BASED ON Fe-TiB ₂ -CrB ₂ AFTER PULSE-PLASMA TREATMENT	Daur Kakimzhanov, Bauyrzhan Rakhadilov, Oleg Kolisnichenko	Multifunctional Thin Films & Coatings (MTFC)
1173		Thickness Induced (Micro/Nano) Structuring of a-C Thin Films Deposited by Radio-Frequency Sputtering	Divya Gupta, Sanjeev Aggarwal	Multifunctional Thin Films & Coatings (MTFC)
1180		Formulation of 2K Epoxy Adhesives with Addition of Electrochemically Exfoliated Graphite for Joining Magnesium Fire Protection Boards	Bartosz Kopyciński, Sebastian Jurczyk, Adrian Radoń, Agnieszka Ciuraszkiewicz, Marta Lenartowicz-Klik, Izabela Gajlewicz, Ewa Langer	Multifunctional Thin Films & Coatings (MTFC)
1184		Searching for the dependence between the type of pigments and the selected properties of coatings during aging tests	Ewa Langer, Małgorzata Zubielewicz, Grażyna Kamińska-Bach, Bartosz Kopyciński, Leszek Komorowski, Damian Wojda, Agnieszka Królikowska	Multifunctional Thin Films & Coatings (MTFC)

ID	No	Title	Authors	Track
1319		EFFECT OF FERROCENE INTRODUCTION ON ELECTRICAL PROPERTIES OF THE Bi_2Se_3 ULTRATHIN FILMS	Andrei Felsharuk, Kiryl Niherysh, Jana Andzane, Gunta Kunakova, Donats Erts	Multifunctional Thin Films & Coatings (MTFC)
1328		ADVANCED FUNCTIONALITIES IN POLYMER COMPOSITES THROUGH EMBEDDED SMART LAYERS USING CONDUCTIVE NANOFILLERS	Stanislav Stankevich, Olga Bulderberga, Gediminas Monastyreckis, Daiva Zeleniakiene, Andrey Aniskevich	Multifunctional Thin Films & Coatings (MTFC)
1329		DEGRADATION OF MECHANICAL PROPERTIES IN LAYERED DOUBLE HYDROXIDE-MODIFIED EPOXY COATINGS UNDER SEAWATER INFLUENCE	Stanislav Stankevich, Jevgenijs Sevchenko, Andrey Aniskevich	Multifunctional Thin Films & Coatings (MTFC)
1358		IMPROVEMENT OF OPERATIONAL PROPERTIES OF POWER EQUIPMENT PARTS OPERATING IN A LOADED STATE	Merkhat Dautbekov, Laila Sulyubayeva, Nurtoleu Magazov	Multifunctional Thin Films & Coatings (MTFC)
924		SKIN MESENCHYMAL STEM CELLS AND UPCONVERTING NANOCOMPLEX FOR TWO-STEP PHOTODYNAMIC THERAPY	Aleja Marija Daugelaite, Greta Butkiene, Artiom Skripka, Vilius Poderys, Simona Steponkienė, Fiorenzo Vetrone, Ričardas Rotomskis, Vitalijus Karabanovas	Nanobiomedical Research & Applications (NRA)
928		Graphene Quantum Dots with Excitation-Wavelength-independent Photoluminescence under Multiphoton Excitation: Nitrogen Functionalities in Dual-Modality near Infrared-I/II Bioimaging and Photodynamic therapy	Wen-Shuo Kuo	Nanobiomedical Research & Applications (NRA)
936		Chlorin e6 Localization in the Coating of Upconverting Nanoparticles: Theranostic Realization	Emilė Pečiukaitytė, Simona Steponkienė, Ričardas Rotomskis	Nanobiomedical Research & Applications (NRA)
972		In vivo Application of 3D-Bioprinted Scaffolds with MXene Quantum Dots in Breast Tissue Regeneration after Mastectomy	Damla Alkaya, Ozge Ozgenc, Ahmet Ceylan, Okan Hekim, Sanjiv Dhingra, Açelya Yilmazer	Nanobiomedical Research & Applications (NRA)
986		The Upconverting Nanoparticle Emission Quenching by Water in Different Cell Culture Media	Evelina Kazlauske, Ričardas Rotomskis	Nanobiomedical Research & Applications (NRA)
1006		Effect of hydrogen peroxide decomposition on luminescence and microstructure of $\text{GdVO}_4:\text{Eu}^{3+}$ redox-active nanocrystals	Kateryna Hubenko, Pavel Maksimchuk, Vladimir Klochkov, Andrey Onishchenko, Svetlana Yefimova	Nanobiomedical Research & Applications (NRA)
1024		Antioxidant Complexes Based On Cyclodextrin-Coated Ceria Nanoparticles For Biomedical Applications	Ganna Grygorova, Vladyslav Seminko, Svetlana Yefimova	Nanobiomedical Research & Applications (NRA)

ID	No	Title	Authors	Track
1052		CHARACTERISTICS OF THE MXENE-ANTI-CEACAM1 COMPLEX FOR PHOTOTHERMAL TARGETED TREATMENT OF MELANOMA	Anastasia Konieva, Volodymyr Deineka, Veronika Zahorodna, Oleksiy Gogotsi, Irina Kube-Golovin, Igor Iatsunskyi, Gunther Wennemuth, Maksym Pogorielov	Nanobiomedical Research & Applications (NRA)
1076		BSA stabilized gold nanoclusters labelled with technetium-99m candidates for theranostics and dual imaging	Vilius Poderys, Marius Stasys, Marius Burkanas, Sigitas Tiskevicius, Ilona Kulakiene, Jonas Venius, Ričardas Rotomskis	Nanobiomedical Research & Applications (NRA)
1132		Exploring Anaerobic Biodegradation Pathways of Iron Ferrocyanide-based Cellulosic Framework Plastics in Municipal Solid Waste Leachate: Insights and Nanoparticles Strategies	Ugis Eismonts, Olga Muter, Ingars Reinholds, Artis Kons, Karlis Svirks, Kristine Saleniece, Maris Senkovs, Valdis Seglins, Andrejs Grinbergs	Nanobiomedical Research & Applications (NRA)
1140		NANOPARTICLE DELIVERY IN A HUMAN PANCREATIC DUCTAL ADENOCARCINOMA ORGAN-ON-A-CHIP MODEL	Karina Goluba, Vadims Parfejevs, Kaspars Jekabsons, Evita Rostoka, Ilze Blake, Liga Kunrade, Anastasija Neimane, Roberts Rimša, Andrejs Pcolkins, Una Riekstina	Nanobiomedical Research & Applications (NRA)
1154		Radiographically Negative Microcalcifications of Human Aorta: Crystal and Chemical Study	Tymofii Ptaschenchuk, Oleksandr Pylypenko, Denys Ustymenko, Roman Moskalenko	Nanobiomedical Research & Applications (NRA)
1155		Morphological and Compositional Analysis of Biomineral Microdeposits in Non-Small Cell Lung Cancer	Alina Baryshok, Yuliia Moskalenko, Andriy Stepanenko, Roman Moskalenko	Nanobiomedical Research & Applications (NRA)
1198		TUMOUR CHEMOSENSITIZATION TO CISPLATIN BY CeO ₂ NANOPARTICLES	Bogdan Gerashchenko, Veronika Sarnatskaya, Yuliia Shlapa, Lyubov Pazyuk	Nanobiomedical Research & Applications (NRA)
1205		Unveiling Theranostic Potential: Exosome Camouflage With Cu-Doped Carbon Dots For Glioblastoma Treatment	Doğantan Çelik, Omur Besbinar, Emel Kirbas Cilingir, recep uyar, Açelya Yilmazer	Nanobiomedical Research & Applications (NRA)
1220		Enhanced Refractive Index Sensitivity of Linearly Assembled Gold Nanoparticles for Biosensing Applications	Taufhik Hossain Tonmoy, Marisa Hoffmann, Sezer Seçkin, Isli Çela, Gysang Yi, Christian Roßner, Tobias König, Andreas Fery, Larysa Baraban	Nanobiomedical Research & Applications (NRA)
1227		Composition and Fine Morphology of Uratic Prostate Stones: A Detailed Analysis	Sergey Danilchenko, Artem Piddubnyi, Ruslan Mykhailenko, Roman Moskalenko	Nanobiomedical Research & Applications (NRA)
1258		Mxene-Based Photothermal Ablation of Staphylococcus Aureus and Candida Albicans	Yuliia Varava, Valeriia Korniienko, Veronika Zahorodna, Oleksiy Gogotsi, Viktoriia Korniienko, Maksym Pogorielov	Nanobiomedical Research & Applications (NRA)
1294		Understanding the Mechanism of DNA Fragmentation by MXene in DNA Comet Assay through In-vitro Electrophoresis	Inna Chorna, Zhanna Klishchova, Artem Shmatkov, Anton Roshchupkin, Ilya Yanko, Serhii Dukhnovskiy, Ivan Baginskyi, Veronika Zahorodna, Iryna Roslyk, Oleksiy	Nanobiomedical Research & Applications (NRA)

ID	No	Title	Authors	Track
			Gogotsi, Maksym Pogorielov, Sergiy Kyrylenko	
1344		Defining Extinction Peaks Of Various Types Of MXenes For Photothermal Therapy And Other Biomedical Applications	Anton Roshchupkin, Milena Yalyzhko, Serhii Dukhnovskiy, Ivan Baginskyi, Aleksejs Lihacevs, Veronika Zahorodna, Iryna Roslyk, Oleksiy Gogotsi, Maksym Pogorielov	Nanobiomedical Research & Applications (NRA)
1350		Photosensitizer properties of Ti3C2 MXene under continuous and pulsed regimens of the near-infrared laser	Milena Yalyzhko, Andrii Liutyi, Inna Chorna, Ivan Baginskyi, Serhii Dukhnovskiy, Iryna Roslyk, Veronika Zahorodna, Oleksiy Gogotsi, Sergiy Kyrylenko, Maksym Pogorielov, Yuliia Varava, Vyacheslav Kukurika	Nanobiomedical Research & Applications (NRA)
1357		BIOMEDICAL APPLICATION OF FREE-STANDING Ti ₃ C ₂ X MXENE FILMS	Kateryna Diedkova, Volodymyr Deineka, Yevheniia Husak, Ivan Baginskyi, Serhii Dukhnovskiy, Veronika Zahorodna, Sergiy Kyrylenko, Oleksiy Gogotsi, Maksym Pogorielov	Nanobiomedical Research & Applications (NRA)
1360		An Alternative Immune Cell Labeling System Based on the New TwoDimensional Nanomaterials MXenes	Linda Giro , Roberta Cagliani, Laura Fusco, Giorgia Longo, Arianna Gazzi, Chacon Benjamin, Christopher Shuck, Klaus Ley, Yuri Gogotsi, Marco Orecchioni	Nanobiomedical Research & Applications (NRA)
956		Effect of Light Element Diffusion Through Artificial Grain Boundaries in Microfabricated Sm(Fe-Co)-B Dot Arrays	Shintaro Hatanaka, Yuichi Mori, Shingo Ito, Masaaki Doi, Toshiyuki Shima	Nanomagnetism & Magnetic Materials (NMM)
974		Analysis of Leakage Magnetic Field of Rectangular Shaped Defects in Magnetic Materials and Investigation of Magnetic Fluids in the Field	Esma Nur SAVRANGULER, Samed GUMUS, Yavuz OZTURK, Coskun HARMANSAH	Nanomagnetism & Magnetic Materials (NMM)
1012		FOCUSED ION BEAM PARAMETERS INFLUENCE ON MAGNETIC PROPERTIES OF THE NANOSTRUCTURES	Tetiana Kalmykova, Sergei Krylov, Vladimír Cambel	Nanomagnetism & Magnetic Materials (NMM)
1038		Exploring the Optical and Magnetic Properties of Molecular Beam Epitaxy-Grown Diluted Multicomponent III-V Semiconductor Nanofilms	Nataliia Tataryn, Rostyslav Serha, Sergii Mamykin, Lyudmyla Borkovska, Larysa Khomenkova, Xinyu Liu, Oleksandr Kolomys, Hiroki Amano, Marimo Hasegawa, Shotaro Watanabe, Rafal Jakiela, Katarzyna Gas, Maciej Sawicki, Badih A Assaf, Jacek Furdyna, Yuko Ichianagi, Oksana Yastrubchak	Nanomagnetism & Magnetic Materials (NMM)
1044		Fundamental Preparation of Polylactic Acid Self-assembled Monolayers for Future Spintronic Applications.	Michal Bennar, Stefan Chromik, Marianna Španková, Marcel Talacko, Juraj Kronek, Juraj Chlpík, Peter Nádaždy	Nanomagnetism & Magnetic Materials (NMM)
1114		Functional Nanostructured Cu-based Alloys with Shape Memory	Lesya Demchenko, Anatoliy Titenko, Anatolii Kravets, Vladislav Korenivski	Nanomagnetism & Magnetic Materials (NMM)

ID	No	Title	Authors	Track
		Effect and Tunable Magnetic Properties		
1073		Biowaste-derived Carbon Dots and Metal Organic Frameworks Heterostructures-based Printable Biosensors	Disha, Vaishali Shrivastav, Wojciech Nogala	Nanosensors, Nanodevices & Applications (NNA)

THURSDAY, SEPT. 12TH, 2024

POSTER SESSION # 2

NANOMATERIALS FOR ENERGY & ENVIRONMENT - NANOMATERIALS SYNTHESIS & SELF-ASSEMBLY - NANOPHOTONICS –
 NANOSCALE CHARACTERIZATION & IMAGING – NANOSENSORS, NANODEVICES & APPLICATIONS – THEORY & MODELING –
 TRANSPORT PROPERTIES IN NANOSCALE SYSTEMS – ULTRASHORT LASER-MATTER INTERACTIONS & MATERIALS PROCESSING

University of Latvia, Jelgavas iela, 3
 6:00 – 7:30 PM

ID	No	Title	Authors	Track
914		Design and Development of Perovskite Solar Cell for Efficient Near Infrared Spectrum Harnessing	Neha Thakur, Sunita Mishra, Paramita Guha	Nanomaterials for Energy & Environment (NEE)
927		Dopant Induced Weak Ferromagnetism in Substituted ZnS QDs And Its Photocatalytic Application	Rahul Sonkar, Dr Devasish Chowdhury	Nanomaterials for Energy & Environment (NEE)
931		Electrochemical performance of hybrid spinel ferrite /carbon (NiFe ₂ O ₄ /C) nanocomposite derived from metal-organic-frameworks (MOF) as electrode material for supercapacitor application	Mahak Gupta, Sachin Tyagi, Neelam Kumari	Nanomaterials for Energy & Environment (NEE)
987		Synthesis of High-Quality Expanded Graphite from Flotation-Enriched Natural Graphite	Yuli Shi, Dongxing Wang, Yuliia Grebel'na, Evgeny Demianenko, Maria Terets, Sergii Zhuravskiy, Olexandr Ignatenko, Kateryna Ivanenko, Mykola Tymofiiiovych Kartel, Oksana Myroslavovna Lisova, Stanislav Mykolayovych Makhno, Yurii Ivanovych Sementsov	Nanomaterials for Energy & Environment (NEE)
1017		Effect of Fullerene Additives on the Optical and Thermodynamic Properties of Eicosane	Yana Hlek, Vitaly Zhelezny, Dmytro Ivchenko, Bohdan Kvasnytskyi, Yaroslav Grosu	Nanomaterials for Energy & Environment (NEE)
1019		Sedimentation Stability and Caloric Properties of Nanohybrid Composite Thermo-Accumulating Material Paraffin/Thermally Expanded Graphite/Copper Oxide Nanoparticles	Vitaly Zhelezny, Yaroslav Grosu, Yana Hlek, Viacheslav Khalak, Dmytro Ivchenko, Bohdan Kvasnytskyi	Nanomaterials for Energy & Environment (NEE)
1027		Nanoparticles as Catalysts in Esterification and Transesterification Reactions	Olga Semenova, Dana Abusada, Faina Nakonechny, Lena Yadgarov, Marina Nisnevitch	Nanomaterials for Energy & Environment (NEE)
1028		Biodiesel Production from Brown Grease Using MoS ₂ and WS ₂ Nanoparticles as Catalysts: a Sustainable Approach to Alternative Fuel	Faina Nakonechny, Olga Semenova, Dana Abusada, Gilbert Azwat, Melad Atrash, Lena Yadgarov, Marina Nisnevitch	Nanomaterials for Energy & Environment (NEE)
1058		Cyanobacteria Immobilized Rgo-Ppy/Ito-Pet Nanocomposite Based Photo-Bioanode for Bio Electricity Generation towards Non-	Pinki Choudhary, Sunita Mishra	Nanomaterials for Energy & Environment (NEE)

ID	No	Title	Authors	Track
		Mediated Bio Photovoltaic Cell Application		
1128		Synthesis of Zeolite from Fly Ash Microspheres for Environmental Protection	Antonina Bondarieva, Viktoriia Tobilko, Volodymyr Pavlenko, Junjie Yu	Nanomaterials for Energy & Environment (NEE)
1137		Investigation of Optimal Reactor Conditions for Methane Pyrolysis on Gamma Alumina-Supported Fe/Ni Nanoclusters	Ainars Knoks, Līga Grīnberga, Raitis Kaspars Sika, Virgīnija Liepiņa, Einārs Sprūģis, Sarunas Varnagiris, Marius Urbonavicius, Jānis Kleperis	Nanomaterials for Energy & Environment (NEE)
1215		Characterization of Direct p-n Junctions in Layered Zinc Oxide-Copper Oxide Nanowire Heterostructures	Davis Gavars, Margarita Volkova, Raimonds Meija, Donats Erts, Jana Andzane	Nanomaterials for Energy & Environment (NEE)
1267		Multi-element Modulation of High Entropy Spinel-structured Oxides as Innovative Phtocatalysts for Energy Conversion	Daniel Gherca, Adrian-Iulian Borhan, Daniel-Dumitru Herea, Dana-Georgeta Popescu, George Stoian, Gabriel Ababei, Horia Chiriac, Nicoleta Lupu	Nanomaterials for Energy & Environment (NEE)
1275		Evaluation of a polymer composite material for application in microbial three electrode system.	Yedla Anudeep Venkata Durga , Shriya Grover, Lucinda Doyle Elizabeth, Jayati Sarkar	Nanomaterials for Energy & Environment (NEE)
1276		Reduced TiO ₂ based kHz supercapacitor for AC line filtering application	Jayant Nagar, Anupam Shukla	Nanomaterials for Energy & Environment (NEE)
1318		PECULIARITIES OF ION TRANSPORT IN AQUEOUS ELECTROLYTES CONFINED IN ANODIC ALUMINA (AAO) NANOCHANNELS	Irina Oliseveca, Jana Andzane, Raimonds Meija, Raimonds Poplausks, Justin D Holmes, Donats Erts	Nanomaterials for Energy & Environment (NEE)
1320		Thermoelectric Properties Of Aqueous Electrolyte Infiltrated In Anodic Aluminium Oxide (AAO) Nanochannels	Ilga Lauma Leimane, Irina Oliseveca, Jana Andzane, Raimonds Meija, Raimonds Poplausks, Justin D Holmes, Donats Erts	Nanomaterials for Energy & Environment (NEE)
1355		Synthesis of Pd@Au@ZnO double core-shell NPs with different Pd and Au composition and their optical properties	Yeon-Tae Yu, Tuong Van Tran, Dong-Seog Kim, Geun-Jae Oh	Nanomaterials for Energy & Environment (NEE)
938		Formation of antimicrobial packaging biopolymer nanocomposite materials for food storage	Valeriy Demchenko, Maksym Iurzhenko, Nataliya Rybalchenko, Andrii Marynin, Olena Demchenko, Illia Sytnyk, Denis Shtepa	Nanomaterials Synthesis & Self-assembly (NSS)
952		Water-Induced Crystal-to-Crystal Transformation: Switchable Mechanical and Luminescent Properties	Shimei Jiang, Wenyang Zhao, Zeyang Ding	Nanomaterials Synthesis & Self-assembly (NSS)
953		Synthesis and Structural Investigation of Exfoliated Graphite-(SCN) _n Composites	Gintarė Rimkutė, Justina Gaidukevič	Nanomaterials Synthesis & Self-assembly (NSS)
1000		Deposition Of Amorphous Molybdenum Silicide (MoSi) Superconducting Thin Films via Magnetron Co-Sputtering	Luīze Dipāne, Edgars Butanovs, Martins Zubkins, Gunta Kunakova, Tom Yager, Boris Polyakov	Nanomaterials Synthesis & Self-assembly (NSS)

ID	No	Title	Authors	Track
1001		Investigating Features of Hydrated C60 Fullerenes Obtained by Vacuum-Sublimation Cryogenic Deposition Method: Characterization via Raman, UV-Vis, Mass Spectrometry, and IR Analysis.	Razet Basnukaeva, Alexandr Dolbin, Mykola Vinnikov, Lubov Buravtseva	Nanomaterials Synthesis & Self-assembly (NSS)
1048		Growth and Characterization of Weyl Semimetal WTe ₂ Nanowires	Jeļena Sušinska, Aina Semjonova, Gunta Kunakova	Nanomaterials Synthesis & Self-assembly (NSS)
1054		Ractive RF Induction Plasma Synthesis of Carbon-Encapsulated Nickel Nanoparticles	Chulwoong Han, Song-Yi Kim, Sung Cheol Park	Nanomaterials Synthesis & Self-assembly (NSS)
1057		Electrochemical Synthesis of AlGaAs/GaAs Nanostructured Heterostructures for Electronic and Optoelectronic Applications	Yana Suchikova, Sergii Kovachov, Ihor Bohdanov, Ivan Kosogov, Marina Konuhova, Anatoli I Popov	Nanomaterials Synthesis & Self-assembly (NSS)
1068		Charge Transport in High-Quality WTe ₂ Single Crystals	Natalia Amirulloieva, Aina Semjonova, Gunta Kunakova	Nanomaterials Synthesis & Self-assembly (NSS)
1074		Highly Porous Iron-Nitrogen Co-Doped Graphene Oxide as Excellent Oxygen Reduction Catalyst	Adriana Marinoiu	Nanomaterials Synthesis & Self-assembly (NSS)
1075		Influence of a Magnetic Field on the Luminescence of Highly-dispersed Powder of ZnS:Mn	Yuriy Bacherikov, Olga Okhrimenko, Valeriy Kidalov, Anton Zhuk	Nanomaterials Synthesis & Self-assembly (NSS)
1129		Highly Tunable Ag Seed Mediated Synthesis and Characterisation of Ag-Au Alloy Nanoparticles Through Controlled Au Growth	Matthew Gary Ellis, Oriol Colomer-Ferrer, Tijmen Euser, Ljiljana Fruk	Nanomaterials Synthesis & Self-assembly (NSS)
1136		Influence of Fe ₃ O ₄ Nanoparticles on Oxidative Processes and Photosynthetic Pigments of Brassica Napus L., Under Drought.	Vadims Kolbjonoks, Aleksandrs Petjukevičs, Marina Krasovska, Natalja Škute	Nanomaterials Synthesis & Self-assembly (NSS)
1163		Synthesis and Characterization of Complex Oxide Phase Nanopowders with a Perovskite Type Structure	Olga Chudinovych, D V Vedel	Nanomaterials Synthesis & Self-assembly (NSS)
1222		EFFECT OF FILM THICKNESS ON THE STRUCTURAL, MORPHOLOGICAL, OPTICAL, AND ELECTRICAL PROPERTIES OF TiO ₂ FILMS PREPARED USING SOL-GEL PROCESS	Rupa Jeena, Julfikar Ali Sarkar, Elizabeth George, Pankaj Chetry, Pradeep Sarin, Mohammed Aslam	Nanomaterials Synthesis & Self-assembly (NSS)
1264		Improved Photocatalytic Water Oxidation of TiO ₂ -based Core-Shell Nanoparticles Using Magnetic Field	Daniel Gherca, Adrian-Iulian Borhan, Daniel-Dumitru Herea, Nicolai-Cristian Rotarescu, George Stoian, Gabriel Ababei, Horia Chiriac, Cristina Gómez-Polo, Nicoleta Lupu	Nanomaterials Synthesis & Self-assembly (NSS)

ID	No	Title	Authors	Track
1279		MICROWAVE-ASSISTED SYNTHESIS OF Cu_3N AND Cu_3PdN NANOCRYSTALS AND THEIR ELECTROCATALYTIC PROPERTIES	Aleksandra Ścigała, Robert Szczęsny, Marek Trzcinski, Anna Chmielnicka, Iwona A Rutkowska, Paweł Kulesza, Edward Szłyk	Nanomaterials Synthesis & Self-assembly (NSS)
1311		In-situ Reflectometry For Control Of Nanoporous Alumina Layer Thickness	Aleksandrs Dutovs, Aušrinė Jurkevičiūtė, Vladislavs Perkanuks, Irina Oliseveca, Raimonds Poplausks, Donats Erts, Juris Prikulis	Nanomaterials Synthesis & Self-assembly (NSS)
1317		Porous Anodic Aluminum Oxide – Metal Nanostructure Multilayers for Optical Sensing	Uldis Maļinovskis, Raimonds Poplausks, Aleksandrs Dutovs, Donats Erts, Juris Prikulis	Nanomaterials Synthesis & Self-assembly (NSS)
1031		Investigation of Pulsed Mode Operation in Low-Temperature Arsenic Plasma Light Sources	Gita Revalde, Rolands Gudermanis, Anda Abola, Atis Skudra	Nanophotonics (NP)
1118		Characteristics of Spectral Properties and Morphological Aspects in Thiocarbocyanine J-aggregates	Polina Pisklova, Iryna Ropakova, Svetlana Yefimova, Yen-Ting Chen, Tim Völzer, Stefan Lochbrunner, Oleksandr Sorokin	Nanophotonics (NP)
1186		UPCONVERTING THERANOSTIC NANOPARTICLES EMITTING IN THE UV TO NIR RANGE	Arturas Katelnikovas, Egle Ezerskyte, Greta Butkiene, Vaidas Klimkevicius	Nanophotonics (NP)
1188		MULTICOLOR LUMINESCENCE OF $NaGdF_4:Tb_{3+},Eu_{3+}$ NANOPARTICLES	Egle Ezerskyte, Arturas Katelnikovas, Vaidas Klimkevicius	Nanophotonics (NP)
1035		EXAMINING STRETCH MARKS IN SOFT COMPOSITES USING FIELD EMISSION SCANNING ELECTRON MICROSCOPE ASSISTED IN-SITU NANOINDENTATION ANALYSIS	Pavithra Ananthasubramanian, Rahul Sahay, Nagarajan Raghavan	Nanoscale Characterization & Imaging (NCI)
1316		Human Lung Cancer Tissue Morphology Analysis Using Atomic Force Microscopy	Lasma Bugovecka, Uldis Maļinovskis, Sergejs Isajevs, Andis Liepiņš, Donats Erts	Nanoscale Characterization & Imaging (NCI)
1080		Spectroelectrochemical Characterization of Gold Nanoparticles and Polyaniline Composites and Their Application in Hydrogen Peroxide SERS Detection	Kacper Jędrzejewski, Krystian Pupel, Barbara Palys	Nanosensors, Nanodevices & Applications (NNA)
1081		Detection of Organic Molecules Using Modified Graphene Oxide and Gold Nanoparticles SERS Substrates	Krystian Pupel, Kacper Jędrzejewski, Sylwia Zoladek, Barbara Palys	Nanosensors, Nanodevices & Applications (NNA)
1084		Conducting Polymer - Titanium Dioxide Nanostructures for Toxic Gas Detection	Olena Aksimentyeva, Bohdan Tszih, Yuliia Horbenko, Mariana Dzeryn, Yuliia Markiv	Nanosensors, Nanodevices & Applications (NNA)
1131		Gate-All-Around Silicon Nanowire Field Effect Transistor Behavior at High Gate Voltages	Reza Nekovei, Amit Verma, Daryoush Shiri	Nanosensors, Nanodevices & Applications (NNA)
1197		Surface Functionalization of Upconverting Nanoparticles: Effect of Oligo(Ethylene Glycol)	Egle Ezerskyte, Kristina Bolgova, Aleja Marija Daugelaite, Greta Butkiene, Vitalijus	Nanosensors, Nanodevices & Applications (NNA)

ID	No	Title	Authors	Track
		Substituent Length on Colloidal Stability and Cellular Uptake	Karabanovas, Arturas Katelnikovas, Vaidas Klimkevicius	
1217		Fabrication, Mechanical, Optical, and Dielectrical Properties of Paper Filled with SrAl ₂ O ₄ : Eu,Dy Oxide and Carbon Nanotubes	Serhii Nedilko, Vitalii Chornii, Valerii Barbash, Alla Kuryliuk, Maksym Lazarenko, Vasyl Scherbatskyi, Olga Yashchenko, Syed Haider, Andrzej Suchocki	Nanosensors, Nanodevices & Applications (NNA)
1242		Effect of Helium Ion Implantation on 3C-SiC Nanomechanical Resonators	Nagesh Shamrao Jagtap	Nanosensors, Nanodevices & Applications (NNA)
918		Predicting Novel 2D AsBiX ₃ (X = S, Se, and Te) Auxetic Monolayers with Favorable Optical and Photocatalytic Water-Splitting Properties	Naoures Kedidi	Theory & Modeling (TM)
1023		Non-Equivalence Of Interatomic Interaction in Model Calculations of the Phonon Dispersion	Ivan Nebola, Diana Kaynts, Olga Maksakova, Anton Katanitsya, Ihor Shkirta, Andrii Korneichuk	Theory & Modeling (TM)
1273		Mechanical properties prediction for polymeric nanocomposites with organoclay nanoadditives	Rodica Cristina Voicu, Oana Nedelcu, Natalia Ortuno, Catalin Tibeica, Mihai Gologanu, Titus Sandu	Theory & Modeling (TM)
930		Swelling Behaviors of Alginate-based Composite Hydrogels Filled with Layered Nanoclays	Nataliia Guzenko, Olena Goncharuk, Yurii Samchenko, Katarzyna Szewczuk-Karpisz	Transport Properties in Nanoscale Systems (TPNS)
1011		Surface Capping Layer Materials For 3D Topological Insulators	Agnese Spustaka, Mikhael Bechelany, Gunta Kunakova	Transport Properties in Nanoscale Systems (TPNS)
1069		Electronic properties of CVD grown 2D WTe ₂ on h-BN surfaces	ANDREJS TEREHOVS, Aris Jansons, Jevgenijs Gabrusenoks, Anatolijs Sarakovskis, Gunta Kunakova	Transport Properties in Nanoscale Systems (TPNS)
1123		Magnetoresistance of an Array of Iron-Filled Aligned Carbon Nanotubes	Yuriy Moiseienko, Iryna Ovsiienko, Denys Oleksandrovych Shpylka, Dmytro Zayats, Liudmyla Matzui, Tetiana Tsaregradskaya, Tatyana Len	Transport Properties in Nanoscale Systems (TPNS)
1149		Influence of the Insulator on the Electrical Properties of Discontinuous Iron-Insulator Multilayers	Iryna Pazukha, Oleksandr Pylypenko, Kostyantyn Tyschenko, Andrii Lohvynov, Maksym Lisnichuk, Serhii Vorobiov, Yurii Shkurdoda, Vladimir Komanicky	Transport Properties in Nanoscale Systems (TPNS)
1158		Transport Phenomena During Nanofluids Flow in Channels in the Laminar-turbulent Transition Region	Nikita Khliiev, Vladimir Gotsulskiy, Olga Khliyeva	Transport Properties in Nanoscale Systems (TPNS)
1324		Magnetotransport properties of CNT/Bi ₂ Se ₃ heterostructures with an enhanced Seebeck coefficient	Kiryl Niherysh, Elmārs Spalva, Jana Andzane, Donats Erts	Transport Properties in Nanoscale Systems (TPNS)

ID	No	Title	Authors	Track
1045		Synthesis and Characterization of Tungsten (W)-Based Nanofluids via Laser Ablation: Insights into Thermal Conductivity	MAHMOOD AKBARI, Meisam Aligholami, Malik Maaza	Ultrashort Laser-matter Interactions & Materials Processing (ULI)

WEDNESDAY, SEPT. 11TH, 2024
e-POSTER SESSION

ALL TRACKS

Remotly (DISCORD)
6:00 – 7:30 PM

ID	No	Title	Authors	Track
1199		Electrical Conductivity of Hydrothermally Synthesized MoO ₂ and MoO ₂ / rGO Composites	Volodymyra Boychuk, Andrii Kachmar, Mykola Klymiuk, Ruslan Zapukhlyak, Vladyslav Goy, Volodymyr Kotsyubynsky	Electrochemistry of Nanomaterials (EN)
1104		X-ray Irradiation Time Behavior of Exciton Luminescence for Yttria Sintered from Nanosized Powder	Eugeniy Barannik, Vitaliy Zhurenko, Sergiy Kononenko, Oganés Kalantaryan, Volodymyr Chishkala	Interdisciplinary & Miscellaneous Topics (IMT)
1257		Metal Nanoparticle-enhanced Polymer Gel Dosimeters for FLASH Beam Dose Measurements	Akvile Slekaitė-Kisone, Mantvydas Merkis, Marius Burkanas, Aleksandras Cicinas, Mindaugas Dziugelis, Vaidas Klimkevičius, Diana Adliene, Jonas Venius	Interdisciplinary & Miscellaneous Topics (IMT)
1277		PLASMONIC ENHANCEMENT OF PHOTSENSITIZING PROPERTIES OF HYBRID THREE-COMPONENT NANOSYSTEM ANIONIC POLYACRYLAMIDE/GOLD NANOPARTICLES/TEMOPORFIN	Pavlo Khort, Oleg Yeshchenko, Vasyl Chumachenko, Oles Fedotov, Pavlo Virych, Hunter Warren, Brian Booth, Valery Bliznyuk, Nataliya Kutsevol	Interdisciplinary & Miscellaneous Topics (IMT)
1281		The use of nanopowders of refractory compounds in welding	Valery Kostin, Victor Golovko, Victor Zhukov, Maksim Reminnyi, Olga Kushnarova	Interdisciplinary & Miscellaneous Topics (IMT)
917		Analysis of the Surface Layer Stress and Strain State after Surface Plastic Deformation of Nanostructured Electro-Spark Coatings	Viacheslav Tarelnyk, Oksana Gaponova, Nataliia Tarelnyk, Oleksandr Radionov, Ievgen Konoplianchenko	Multifunctional Thin Films & Coatings (MTFC)
923		Low-Frequency Noises in MWCNT Films by Pulse Laser Deposition	Ihor Virt, Ivan Padalka	Multifunctional Thin Films & Coatings (MTFC)
933		Modeling of the Stress-Strain State in Multilayer Film Systems Depending on the Thermal Load	Anna Badalian, Alexei Vitalievych Khomenko, Oleksandr Goncharov, Dmitry Belous, Olga Lytvynenko	Multifunctional Thin Films & Coatings (MTFC)
990		Optical, Electrical and Gas Sensing Properties of the MnCo ₂ O ₄ Thin Films	Ivan Orletskyi, Ivan Koziarskyi, Dmytro Koziarskyi, Eduard Maistruk	Multifunctional Thin Films & Coatings (MTFC)

ID	No	Title	Authors	Track
1005		MECHANISMS OF FORMATION AND MODELING OF THE STRUCTURE OF FILMS OF REFRACTORY COMPOUNDS	Oleksandr Goncharov, Ivan Kolinko, Dmytro Shyrokorad, Grygoriy Kornich, Andrii Yunda, Svitlana Goncharova	Multifunctional Thin Films & Coatings (MTFC)
1013		Modification of gallium nitride defect structure by microwave radiation treatment for HEMTs, UV-LEDs and sensor applications	Roman Redko, Grigorii Milenin, Nadiia Safriuk-Romanenko, Svitlana Redko	Multifunctional Thin Films & Coatings (MTFC)
1014		Light Metal-Containing Fillers for Polymer Composites	Volodymyr Moravskiy, Anastasiia Kucherenko, Marta Kuznetsova, Ludmila Dulebova	Multifunctional Thin Films & Coatings (MTFC)
1018		Influence of structure on the properties of coatings during multi-chamber detonation spraying of Al ₂ O ₃ powder on steel	Volodymyr Korzhyk, Olga Kushnarova, Petro Stukhliak, Olena Berdnikova, Oleg Kolisnichenko, Oleg Totosko	Multifunctional Thin Films & Coatings (MTFC)
1040		AlNiCoFeCrTiB _x High-Entropy Coatings Prepared by Electron-Beam Cladding	Serhii Nakonechnyi, Alexandra Yurkova, Petro Loboda	Multifunctional Thin Films & Coatings (MTFC)
1041		Effect of the Surface Nanocrystallization on the Gas Nitriding of Two-Phase Titanium Alloy	Serhii Lavrys, Iryna Pohrelyuk, Serhii Sheykin, Ihor Rostotskii	Multifunctional Thin Films & Coatings (MTFC)
1093		Multilayer Interference Mirrors with Nanoscale Metal Layers	Stanislav Yakovin, Stanislav Dudin, Alexander Zykov	Multifunctional Thin Films & Coatings (MTFC)
1127		Increasing the Productivity of Electron Beam Evaporation of Ag and Cu Antimicrobial Nanocoatings on Mg-Based Alloy Implants	Oleksii Gornostai, Maksym Khokhlov, Yaroslav Stelmakh, Julia Khohlova, Ihor Maksymchuk, Yuliya Kharchenko	Multifunctional Thin Films & Coatings (MTFC)
1138		Structural and Optical Properties of Composite and Multilayered Si-doped HfO ₂ films	Dmytro Khomenkov, Semyon Ponomaryov, Lyudmyla Melnichuk, Oleksandr Melnichuk, Xavier Portier, Larysa Khomenkova, Fabrice Goubilleau	Multifunctional Thin Films & Coatings (MTFC)
1150		UV irradiation Impact on Structuring of Films Modified with Epoxy Resin	Mykhailo Bratychak, Victoriia Zemke, Nataliia Chopyk, Volodymyr Prystai	Multifunctional Thin Films & Coatings (MTFC)
1170		The Effect of Lanthanum and Yttrium Doping on Photocatalytic Properties of ZnO Ffilms	Liliia Myroniuk, Denys Myroniuk, Eduard Maistruk, Ivan Koziarskyi, Vitalii Karpyna, Larysa Petrosian, Arsenii Ievtushenko	Multifunctional Thin Films & Coatings (MTFC)
1195		Investigation of the Effect of the Chemical Composition of Thin Nanostructured Films of Ni-Cu Alloys on the Structure, Electrical and Magnetic Properties	Valeriy B Loboda, Vladislav Zubko, Svitlana Khursenko, Andrey Chepizhnyi, Vladimir Kravchenko	Multifunctional Thin Films & Coatings (MTFC)

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1200		Resistive Sensitivity of Nanocrystalline Copper Oxide Films to Ammonia Vapors	Sergey Petrushenko, Sergey Dukarov, Ruslan Sukhov, Mateusz Fijalkowski, Martin Setina, Tamara Sukhova	Multifunctional Thin Films & Coatings (MTFC)
1202		Artificial cuticle GREEN ARTICLE based on chitosan-hydroxyapatite bionanocomposite for poultry	Olga G Bordunova, Rimma V Dolbanosova, Hanna O Petrenko	Multifunctional Thin Films & Coatings (MTFC)
966		Biological Properties of Nano-modified Nerve Conduits	Liudmyla Sukhodub, Mariia Kumeda, Olha Sukhonos, Leonid Sukhodub, Volodymyr Prokopiuk, Maksym Yermakov	Nanobiomedical Research & Applications (NRA)
975		Macroporous Filtration PTFE Membranes Modified with Polymer-Based Nanocomposite Containing Zirconium Hydrophosphate and Silver Nanoparticles	Liudmyla Ponomarova, Kateryna Kudelko, Ludmila Rozhdesvenska, Alexey Palchik, Mariya Chaban, Lilia Vygovska, Valerii Ushkalov	Nanobiomedical Research & Applications (NRA)
1016		Enhancement of thiol oxidation by redox cyclers in the presence of nanoparticles in model system	Vladimir Klochkov, Yuri Nikitchenko, Nataliya Kavok, Galyna Dudetskaya, Olga Sedyh	Nanobiomedical Research & Applications (NRA)
1020		Synthesis and Spectral Properties of New Long-Alkyl-Chain-Modified Flavonols as Fluorescent Probes for Nanostructured Materials	Arsenii Dmytrovych Snizhko, Liudmyla Chepeleva, Eugene Gladkov, Alexander Roshal, Alexander Kyrychenko	Nanobiomedical Research & Applications (NRA)
1025		THE ANTITUMOR EFFICACY OF REDOX-ACTIVE INORGANIC NANOPARTICLES /MENADIONE COMPLEXES IN 2D AND 3D MODELS OF L929 FIBROSARCOMA CELLS	Nataliya Kavok, Vladimir Klochkov, Galyna Dudetskaya, Olga Sidorenko, Olga Sedyh	Nanobiomedical Research & Applications (NRA)
1088		Delayed Reactive Oxygen Species Production By UV Pre-irradiated Orthovanadate Nanocrystals	Pavel Maksimchuk, Kateryna Hubenko, Vladyslav Seminko, Andrey Onishchenko, Galyna Dudetskaya, Nataliya Kavok, Svetlana Yefimova	Nanobiomedical Research & Applications (NRA)
1189		Testing Antitumor Combinations of Vitamin C and Vitamin K3 In L929 Fibrosarcoma Cells in the Presence of CeO ₂ Nanoparticles	Vladimir Klochkov, Nataliya Kavok, Galyna Dudetskaya, Nina Karpenko, Olga Sedyh	Nanobiomedical Research & Applications (NRA)
1191		ELECTROSPUN CHITOSAN/PCL-AgNPs NANOFIBROUS MEMBRANES AS EFFECTIVE SYSTEM FOR PURULENT WOUNDS TREATMENT	Yevhen Samokhin, Yuliia Varava, Valeriia Korniienko, Vyacheslav Kukurika, Artem Shmatkov, Tymofii Ptaschenchuk, Roman Moskalenko, Viktoriia Korniienko	Nanobiomedical Research & Applications (NRA)
1223		Synthesis of Polylactic Acid Membranes Loaded With Silver	Anna Yanovska, Viktoriia Korniienko, Olexandra	Nanobiomedical Research &

ID	No	Title	Authors	Track
		Nanoparticles by Electrospinning Technique	Radchenko, Yevhen Samokhin, Yevheniia Husak, Volodymyr Deineka	Applications (NRA)
1240		Effect of PEG 400 Nanocrystal Sizes on Thermal and Spectral Properties	Viktoria Shevchenko, Andrii Sobchuk, Olexandr Alekseev, Sergei Alekseev, Eduard Lysenkov, Roman Dinzhos, Tetyana Budnyak, Oleg Tkachenko, Maksym Lazarenko	Nanobiomedical Research & Applications (NRA)
1251		Exploring the Therapeutic Potential of T ₃ C ₂ MXene Using an In-Ovo Model	Vyacheslav Kukurika, Artem Shmatkov, Inna Chorna, Volodymyr Deineka, Ilya Yanko, Zhanna Klishchova, Oleksandr Solodovnyk, Serhii Dukhnovskiy, Ivan Baginskyi, Veronika Zahorodna, Oleksiy Gogotsi, Sergiy Kyrylenko	Nanobiomedical Research & Applications (NRA)
1263		Towards electroconductive polymer scaffolds: polycaprolactone nanofiber membranes with Ti ₃ C ₂ MXene surface coating.	Artem Shmatkov, Kateryna Diedkova, Bojan Petrović, Sanja Kojić, Lazar Milić, Milan Radovanović, Ivan Baginskyi, Serhii Dukhnovskiy, Veronika Zahorodna, Iryna Roslyk, Oleksiy Gogotsi, Sergiy Kyrylenko, Goran Stojanović, Maksym Pogorielov	Nanobiomedical Research & Applications (NRA)
1297		Copper Nanoparticles in Ch/PLA Dressing Material Promotes Wound Healing	Anna Butsyk, Yevhen Samokhin, Anastasiia Denysenko, Yuliia Varava, Valeriia Korniienko, Viktoriia Korniienko, Maksym Pogorielov, Roman Moskalenko	Nanobiomedical Research & Applications (NRA)
1269		Potential Immunomodulatory Effects of Nb ₂ C and Ti ₂ C ₃ MXenes on Human Macrophages	Andrii Liutyi, Milena Yalyzhko, Tetiana Mehed, Inna Chorna, Ivan Baginskyi, Serhii Dukhnovskiy, Iryna Roslyk, Veronika Zahorodna, Oleksiy Gogotsi, Oksana Sulaieva, Maksym Pogorielov, Sergiy Kyrylenko	Nanobiomedical Research & Applications (NRA)
960		Terahertz-Frequency Signals Generated in a Dual-Antiferromagnetic-Layer Spin Hall Oscillator	Oleh Shtanko, Oleksandr V Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
963		Low-Detectable-Power Cooled Terahertz-Frequency Signal	Volodymyr Prokopenko, Oleksandr V Prokopenko	Nanomagnetism & Magnetic Materials (NMM)

ID	No	Title	Authors	Track
		Detector Based on an Antiferromagnetic Tunnel Junction		
970		Non-resonant Spin-Torque Microwave Detector Having L1 ₀ Free Layer with Perpendicular Magnetic Anisotropy	Ivan Fantych, Oleksandr V Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
1126		Ferromagnetic-like Behavior of Ethanol Solutions of the ZnO Nanoparticles	Roman Redko, Vitaliy Shvalagin, Grigorii Milenin, Svitlana Redko	Nanomagnetism & Magnetic Materials (NMM)
1178		Multi-Input Programmable Artificial "Neuron" Based on Antiferromagnetic Spintronic Nanostructures	Iryna Sotnyk, Oleksandr V Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
1204		Concentration and Heat Treatment Effects on Magnetoresistive Properties and Structural-Phase State of Granular Co _x Ag _{100-x} Alloy Thin Films	Ihor Shpetnyy, Tomáš Plecenik, Leonid Satrapinskyy, Viktor Hrebynakha, Anatolii Ruban, Oleksii Fomenko, Uliana Shvets, Serhij Lyfar, Yurii Shkurdoda	Nanomagnetism & Magnetic Materials (NMM)
920		Effect of Sm ₃₊ on the Structural Properties and Photocatalytic Performance of TiO ₂ &Au Nanocomposites	Olena Mykolaivna Lavrynenko, Maksym Zahornyi Mykitovich, Olexander Kolomys, Erwan Paineau	Nanomaterials for Energy & Environment (NEE)
1007		The Influence of Magnesium Doping on the Structural Characteristics of Cu ₂ ZnSnS ₄ Nanoparticles Obtained by the Polyol Method	Maksym Yermakov, Bohdan Boiko, Vitalii Vasyliev, Roman Pshenychnyi, Oleksii Diachenko, Vitalii Grynenko	Nanomaterials for Energy & Environment (NEE)
1037		Long-term Effect of Hydrogen and its Mixtures on Polyethylene Macromolecules	Maksym Kovalchuk, Maksym Iurzhenko, Valeriy Demchenko, Marcin Godzierz	Nanomaterials for Energy & Environment (NEE)
1043		Pyroresistive Properties of Segregated Composites Based on Amorphous and Semi-crystalline Polymers	Oleksii Maruzhenko, Yevgen Mamunya, Andrii Pidlisnyi, Andrii Pylypenko, Maksym Iurzhenko	Nanomaterials for Energy & Environment (NEE)
1046		Magnesium Substituted Copper Ferrite as an Effective Catalyst for the Organic Dyes Decomposition	Yuliia Mazurenko, Larysa Kaykan, Mariia Moklyak, Khrystyna Bandura, Łukasz Gondek, Antoni Żywczak	Nanomaterials for Energy & Environment (NEE)
1121		Polylactide Composites with Calcium-containing Fillers	Andrii Masyuk, Dmytro Kechur, Bozhena Kulish, Volodymyr Levytskyi	Nanomaterials for Energy & Environment (NEE)
1143		Performance Analysis of Turbulent Convection Heat Transfer of Al ₂ O ₃ -water Nanofluid in the Heat Exchanger of a Water Storage Tank	Tetiana Rymar, Volodymyr Kuchynskyi	Nanomaterials for Energy & Environment (NEE)
1147		Environmental Insight into Efficient Removal of Diclofenac Sodium from	Tetiana Hubetska, Natalia Kobylinska	Nanomaterials for Energy &

ID	No	Title	Authors	Track
		Aqueous Solution by Fe ₃ O ₄ loaded Mg,Fe-LDH nanocomposites		Environment (NEE)
1221		Dissipation of Current Carriers in Lead Telluride Films	Tetiana Mazur, Myroslav Mazur	Nanomaterials for Energy & Environment (NEE)
1077		PLA-based and Carbon Nanotubes Modified Materials for 3D Printing	Eduard Lysenkov, Iryna Lysenkova	Nanomaterials Synthesis & Self-assembly (NSS)
1092		Formation and Confinement of Nanoparticles in a DC Glow Discharge	Valeriy Lisovskiy, Stanislav Dudin, Sergiy Bogatyrenko, Pavlo Platonov, Sergiy Rezenenko	Nanomaterials Synthesis & Self-assembly (NSS)
1142		Rational Design of AgNPs Reinforced Layered Titanium Phosphate Nanocomposites for Antibacterial Applications	Tetiana Hubetska, Olena Khainakova, Belén Cabal, Natalia Kobylinska, Adolfo Fernández	Nanomaterials Synthesis & Self-assembly (NSS)
1190		Curing Kinetics of Cyanate Ester Resin in situ N-Phenylaminopropyl Polyhedral Oligomeric Silsesquioxane Nanoparticles	Olga Grigoryeva, Diana Shulzhenko, Olga Starostenko, Kristina Gusakova, Alexander Fainleib	Nanomaterials Synthesis & Self-assembly (NSS)
1233		Ageing Processes in Functional Ceramics and Thick-Film Elements	Halyna Klym, Yuriy Kostiv	Nanomaterials Synthesis & Self-assembly (NSS)
1238		Effect of Photocatalytic Nanoparticles on Structure, Thermomechanical, and Hydrophilic Properties of UV-irradiated PVA-PEG Hydrogels	Illia Sytnyk, Valeriy Demchenko, Oleksii Maruzhenko, Maksym Iurzhenko	Nanomaterials Synthesis & Self-assembly (NSS)
989		Shift of Plasmon Resonance Peak: Effect of Magnetic Field Action	Roman Redko, Sergii Mamykin, Olga Kondratenko, Yelizaveta Savchuk	Nanophotonics (NP)
1229		Thermostimulated Structural Evolution of Ge-Doped HfO ₂ Nanolayers: Insights from Advanced Characterization Techniques	Dmytro Khomenkov, Semyon Ponomaryov, Oleksandr Melnichuk, Lyudmyla Melnichuk, Larysa Khomenkova, Xavier Portier, Johannes Heitmann, Fabrice Goubilleau	Nanoscale Characterization & Imaging (NCI)
1235		Positron Annihilation Lifetime Tools for Nanostructural Study of Spinel Ceramics	Yuriy Kostiv, Halyna Klym, Ivan Hadzaman	Nanoscale Characterization & Imaging (NCI)
1217		Fabrication, Mechanical, Optical, and Dielectrical Properties of Paper Filled with SrAl ₂ O ₄ : Eu,Dy Oxide and Carbon Nanotubes	Serhii Nedilko, Vitalii Chornii, Valerii Barbash, Alla Kuryliuk, Maksym Lazarenko, Vasyl Scherbatskyi, Olga Yashchenko, Syed Haider, Andrzej Suchocki	Nanosensors, Nanodevices & Applications (NNA)
926		A Probabilistic Model of Dopant-Induced Spontaneous Phase Separation in Artificial Lipid	Roman Ye Brodskii, Olga V Vashchenko	Theory & Modeling (TM)

ID	No	Title	Authors	Track
		Membranes: The Case of Two Binding Modes		
959		Formation of Heterogeneous Structures in Softened Ice Surface Under Friction	Alexei Vitalievych Khomenko, Denys Lohvynenko, Kateryna Khomenko, Antonina Biesiedina, Yaroslava Khyzhnya, Vladyslav Maliutin	Theory & Modeling (TM)
1078		Effects of Many-Particle Clusters Scattering on Electronic Spectra of Strongly Correlated Alloys in Wannier and Bloch Representations	Tatiana Shatnii, Evgen Len, Yevheniy Tsapko, Iryna Galstian, Tatiana Len	Theory & Modeling (TM)
1091		Effects of Elastic Interactions Between Adsorbate and Substrate in Nano-Structuring of Thin Films During Deposition	Alina Dvornichenko, Vasyl Kharchenko, Yuliia Rozghon	Theory & Modeling (TM)
1101		Molecular Dynamics of High-Density Polyethylene Composites: Effects of Welding Temperature	Donghu ZENG, Maksym Iurzhenko, Valeriy Demchenko	Theory & Modeling (TM)
1115		Plastic Deformation Modeling and Mechanical Properties of Fe-Cr-Al Alloys	Olha Shchokotova, Vasyl Kharchenko, Dmitrii Kharchenko, Borys Lysenko	Theory & Modeling (TM)
1237		Computer Modeling of Percolating Arrays of Bent Nanotubes	Illia Zhydenko, Halyna Klym, Dmytro Chalyy, Ivan Karbovnyk	Theory & Modeling (TM)
1260		Comparative Analysis of Thyroid Disease Prediction Models Using Machine Learning and Data Mining Techniques and Ensemble Classifiers	Ramani Dulipala	Theory & Modeling (TM)
1062		Peculiarities of Nanoscale α' -phase Precipitation in Fe-Cr-Al Alloys During Thermal Treatment	Vasyl Kharchenko, Dmitrii Kharchenko, Borys Lysenko, Alina Dvornichenko	Theory & Modeling (TM)
1064		Universality of Fission-Gas-Bubble Growth in Amorphous Uranium Silicide	Dmitrii Kharchenko, Youheng Pei, Tianyuan Xin, Ma Cong, Vasyl Kharchenko	Theory & Modeling (TM)
1234		Femtosecond Laser Structuring and Associated Optical Phenomena: the Case of Silicon	Nataliya Berezovska, Igor Dmitruk, Yevhen Hrabovskyi, Anna Karlash, Andriy Dmytruk, Viktor Kadan, Ivan Blonskyi, Mykhailo Bondar	Ultrashort Laser-matter Interactions & Materials Processing (ULI)
1364		Nanostructuring and Hardening of Subsurface Layers in Structural Steels by Laser Heat Treatment Followed by High-Frequency Mechanical Impact Treatment: Effects of Carbon Content and Alloying Scheme	Dmytro Lesyk, Bohdan Mordyuk, Walid Alnusirat, Silvia Martinez, Vitaliy Dzhemelinskyi, Pavlo Kondrashev, Oleksii Goncharuk, Yurii Kliuchnykov, Andriy Kotko, Aitzol Lamikiz	Ultrashort Laser-matter Interactions & Materials Processing (ULI)
1079		Structure and Electrical Properties of Polyaniline/MAX Composites	Yuliia Horbenko, Olena Aksimentyeva, Yaroslav Kovalskyi, Vasyl Kordan, Artem Zhytskyi	Nanomaterials for Energy & Environment (NEE)

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1206		FACILE SYNTHESIS OF BAND GAP-TUNABLE KAPPA-CARRAGEENAN-MEDIATED C,S-DOPED TiO ₂ NANOPARTICLES FOR ENHANCED DYE DEGRADATION	Daisy Jane Erjeno, Arnold Lubguban, Roberto Malaluan, Arnold Cafe Alguno	Nanomaterials Synthesis & Self-assembly (NSS)
1207		Enhanced Detection of Histamine in Food Products Using Colorimetric PEGylated Gold Nanoparticles	Jahor Omping, Roberto Malaluan, Arnold Lubguban, Arnold Cafe Alguno	Nanomaterials Synthesis & Self-assembly (NSS)
1208		PHOTOCATALYTIC ACTIVITY OF CARRAGEENAN-MEDIATED ZINC OXIDE NANOPARTICLES FOR WATER TREATMENT APPLICATIONS	Dan Michael Asequia, Arnold Lubguban, Roberto Malaluan, Arnold Cafe Alguno	Nanomaterials Synthesis & Self-assembly (NSS)
1001		Investigating Features of Hydrated C ₆₀ Fullerenes Obtained by Vacuum-Sublimation Cryogenic Deposition Method: Characterization via Raman, UV-Vis, Mass Spectrometry, and IR Analysis.	Razet Basnukaeva, Alexandr Dolbin, Mykola Vinnikov, Lubov Buravtseva	Nanomaterials Synthesis & Self-assembly (NSS)