

WEDNESDAY, SEPT. 13TH, 2023**e-POSTERS SESSION****5:30 – 7:30 PM****(in Discord Platform, <https://discord.com>)**

ID	No	Title	Authors	Track
736	eP-1	Influence of Overvoltage During Electrodeposition of Thin Zn-Ni-Cu Alloy Films on Its Phase Composition	Anastasiia Khomenko, Igor Ryshchenko, Antonina Maizelis	Electrochemistry of Nanomaterials (EN)
504	eP-2	Additive Manufacturing of Bioresorbable Scaffolds Based on Polycaprolactone and Composites	Yaroslav Kravchenko, Maksym Pogorielov, Anton Taran, Maksym Kubakh, Yevhenia Husak	Interdisciplinary & Miscellaneous Topics (IMT)
518	eP-3	Formation of Nanostructures in the Weld Nugget Zone in Friction Stir Welding of Mg-Al Alloys	Valery Kostin, Julia Khokhlova, Maksym Khokhlov, Alexey Makhnenko, Oleksandr Puzrin	Interdisciplinary & Miscellaneous Topics (IMT)
544	eP-4	A Simple Electrochemical: Ultrasound Technique for Obtaining Biocidal Antiviral, Antibacterial and Antifungal Nanoparticles of Calcium Carbonate from the Eggshell Waste	Olga Bordunova, Rimma Dolbanosova, Valeriy Loboda, Yevgeniya Samokhina, Kovalenko Lidiia, Opara Victor, Chernyavska Tatyana, Andriy Stepanenko, Chivanov Vadym	Interdisciplinary & Miscellaneous Topics (IMT)
560	eP-5	Peculiarities of the Surface Structure of High-Speed Steel after Pulse-Plasma Treatment	Olga Kushnarova, Olena Berdnikova, Yuriy Tyurin, Oleg Kolisnichenko, Tetyana Alekseienko, Yevhenii Titkov	Interdisciplinary & Miscellaneous Topics (IMT)
746	eP-6	Bioluminescence as an Indicator of the Effectiveness of Static Magnetic Fields Influence on Living Organisms	Olena Gromozova, Victor Martyniuk, Ihor Hretskyi, Oleksandr Artemenko, Victoriia Kobernyk, Oleksandr Kisten, Yuliya Tseyslyer	Interdisciplinary & Miscellaneous Topics (IMT)
474	eP-7	About Some Physical Aspects of the Correct Representation for the State of a Nano-Scale Film	Andrii Sizhuk, Yevgen Oberemok, Sergey Savenkov, Xiaohong Chen, Zhenjie Zhao, Zhuo	Multifunctional Thin Films & Coatings (MTFC)

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			Sun, Volodymyr Malyshev, Oleksandr Prokopenko, Tatyana Rodionova	
523	eP-8	Electrical Properties of n -NiS ₂ / p -CdTe Heterojunction Obtained by Spray Pyrolysis Method	Ivan Orletskyi, Mariya Ilashchuk, Eduard Maistruk, Ivan Koziarskyi, Dmytro Koziarskyi	Multifunctional Thin Films & Coatings (MTFC)
547	eP-9	Electrical Properties of p -CuNiO ₂ / n -Si Heterojunction	Dmytro Koziarskyi, Ivan Koziarskyi, Eduard Maistruk	Multifunctional Thin Films & Coatings (MTFC)
585	eP-10	Phase Composition and Structure of Ultrathin Nanocrystalline Cu-Ni Film Alloys	Valeriy Loboda, Vladislav Zubko, Svitlana Khursenko, Vladimir Kravchenko, Andrey Chepizhnyi, Andrey Pastushenko	Multifunctional Thin Films & Coatings (MTFC)
604	eP-11	Surface Modification of Amorphous Alloys with Heterofunctional Oligoperoxide Metallic Complexes	Oksana Myronivna Hertsyk, Tetiana Heorhiivna Hula, Myroslava Oleksiivna Kovbuz, Olga Anatoliivna Ezerska, Myroslava Stepanivna Tashak	Multifunctional Thin Films & Coatings (MTFC)
690	eP-12	Effect of Interfaces Number on the Thermally-Induced Phase Transitions in Ni/Ti Stacks	Vlad Mohylko, Ivan Kruhlov, Svitlana Voloshko, Andrii Orlov	Multifunctional Thin Films & Coatings (MTFC)
766	eP-13	Corrosion Resistance of Tantalum-Based Coatings on Medical Implants	Stanislav Yakovin, Stanislav Dudin, Alexander Zykov, Nina Yefimenko, Oleksandr Dakhov	Multifunctional Thin Films & Coatings (MTFC)
783	eP-14	Corrosion Resistance Enhancement of Porous Titanium by Thermo-Chemical Treatment	Serhii Lavrys, Khrystyna Shliakhetka, Iryna Pohrelyuk	Multifunctional Thin Films & Coatings (MTFC)
812	eP-15	Study of Thermomechanical Properties of Multilayer Nanocomposite Film Systems	Oleksandr Goncharov, Alexei Vitalievych Khomenko, Anna Badalian, Dmitry Belous	Multifunctional Thin Films & Coatings (MTFC)
499	eP-16	Freeze-thawing Condition to Obtain the Chitosan-Calcium Phosphate Composites with Controllable Degradation Degree	Liudmyla Sukhodub, Mariia Kumeda, Leonid Sukhodub, Olexandr Tsyndrenko	Nanobiomedical Research & Applications (NRA)

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508	eP-17	Oxide Nanocrystals with Variable Valence Ions for Hydroxyl Radical Neutralization	Pavel Maksimchuk, Kateryna Hubenko, Yevhen Neuhodov, Vladyslav Seminko, Andrey Onishchenko, Iryna Bespalova, Vladimir Klochkov, Lesya Demchenko, Svetlana Yefimova	Nanobiomedical Research & Applications (NRA)
574	eP-18	Exposure of the Prooxidant Potential of CeO ₂ and GdYVO ₄ /Eu ³⁺ Nanoparticles in Model Systems Containing Low-Molecular Antioxidants	Vladimir Klochkov, Yuri Nikitchenko, Olga Sedyh, Yurii Kot, Nina Karpenko, Galyna Dudetskaya, Nataliya Kavok	Nanobiomedical Research & Applications (NRA)
580	eP-19	Dynamics of the Interaction of Rare-Earth-Based Nanoparticles with Glutathione at Physiological pH	Nataliya Kavok, Vladimir Klochkov, Olga Sedyh, Lesia Piliai, Galyna Dudetskaya	Nanobiomedical Research & Applications (NRA)
553	eP-20	Kinetic Biopharmaceutical Studies of a New Paracetamol – Glucosamine Analgetic Drug	Olga Vashchenko, Olena Ruban, Igor Zupanets, Pavlo Vashchenko	Nanobiomedical Research & Applications (NRA)
609	eP-21	Nanobiotechnology in Medicine: Medical Students' Awareness	Nataliia Inshyna, Inna Chorna	Nanobiomedical Research & Applications (NRA)
562	eP-22	Structure and Properties of Visible-Light Active Binary TiO ₂ & Au Nanocomposites	Olena Mykolaivna Lavrynenko, Maksym Zahornyi Mykitovich, Olesja Pavlenko Yuriivna, Erwan Paineau	Nanomaterials for Energy & Environment (NEE)
624	eP-23	Features of Electrical Properties of Nanocomposite Antimicrobial Polymeric Materials with Silver Nanoparticles	Eduard Lysenkov, Olexander Stryutsky, Iryna Lysenkova	Nanobiomedical Research & Applications (NRA)
837	eP-24	Investigation of the Therapeutic Potential of T ₂ C ₃ T _x MXene in the in-ovo Model	Sergiy Kyrylenko, Vyacheslav Oleksandrovych Kukurika, Artem Shmatkov, Volodymyr Deineka, Zhanna Klishchova, Roman Moskalenko, Oleksandr	Nanobiomedical Research & Applications (NRA)

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			Solodovnyk, Ivan Baginskyi, Veronika Zahorodna, Iryna Roslyk, Oleksiy Gogotsi, Maksym Pogorielov	
495	eP-25	Probabilistic Computing with Antiferromagnetic Spin Hall Oscillators	Denys Slobodianiuk, Oleksandr Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
543	eP-26	Sub-terahertz Frequency Signal Source Based on an Array of Antiferromagnetic Tunnel Junctions	Oleh Shtanko, Oleksandr Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
591	eP-27	Thermally-Stable Subterahertz Frequency Spectrum Analyzer Based on an Array of Antiferromagnetic Tunnel Junctions	Volodymyr Prokopenko, Oleksandr Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
902	eP-28	The Influence of Temperature on the Processes of Spin-Dependent Electron Scattering in Metal Film Alloys	Larysa Odnodvoretz, Yurii Shabelnyk, Iryna Cheshko	Nanomagnetism & Magnetic Materials (NMM)
903	eP-29	Multicomponent Functional Materials: Kinetic and Magnetoresistive Properties	Serhiy Protsenko, Larysa Odnodvoretz, Yurii Shabelnyk, Olena Lobodiuk, Natalia Shumakova, Ivan Protsenko	Nanomagnetism & Magnetic Materials (NMM)
472	eP-30	Hectorite Nanoparticle as a Shear-thixotropic Plugging Agent in Water-based Drilling Fluids	Chunping GUO, Guancheng JIANG	Nanomaterials for Energy & Environment (NEE)
506	eP-31	Formation of Nanopores in Anodic Oxidized Aluminium Affected by Carbon Nanodots	Ludmila Ponomarova, Kateryna Kudelko, Olexander Dziazko, Ludmila Rozhdesvenska, Liudmila Kharkova	Nanomaterials for Energy & Environment (NEE)
563	eP-32	Structure and Properties of Visible-Light Active Binary TiO ₂ & Au Nanocomposites	Olena Lavrynenko, Maksym Zahornyi, Olesja Pavlenko, Erwan Paineau	Nanomaterials for Energy & Environment
672	eP-33	Effect of Photoelectron Traps on X-Ray Induced Luminescence of Polycrystals Sintered from Y ₂ O ₃ Nanopowder	Eugeniy Barannik, Sergiy Kononenko, Oganés Kalanta-ryan, Vitaliy Zhurenko, Volodymyr Chishkala	Interdisciplinary & Miscellaneous Topics (IMT)

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617	eP-34	Pyroresistive Properties of Segregated Composites Based on PVC Containing Carbon Fillers	Oleksii Maruzhenko, Yevgen Mamunya, Maksym Iurzhenko, Roman Kolisnyk, Olha Masiuchok, Yevheniia Buinova, Marcin Godzierz, Sébastien Pruvost	Nanomaterials for Energy & Environment (NEE)
634	eP-35	The Effect of Hydrogen and Its Mixtures with Natural Gas on Structure of Technical Polyethylene	Maksym Kovalchuk, Maksym Iurzhenko, Valeriy Demchenko, Valeriy Verbovsky, Hennadiy Zhuk, Leonid Unigovskiy, Igor Gotsyk, Marcin Godzierz	Nanomaterials for Energy & Environment (NEE)
712	eP-36	Impact of Pulse Potential Amplitude of Substrate on the Structure and Mechanical Properties of Diamond-Like Films	Oksana Horobei, Yurii Nasieka, Volodymyr Strelnytskyi	Multifunctional Thin Films & Coatings (MTFC)
720	eP-37	Polylactide Nanocomposites with Increased Performance Properties	Andrii Masyuk, Bozhena Kulish, Dmytro Kechur, Volodymyr Levytskyi	Nanomaterials for Energy & Environment (NEE)
723	eP-38	Preparation and Characterization of Ceramic-Based Thick Film Nanostructures for Sensor Applications	Yuriy Kostiv, Halyna Klym, Ivan Hadzaman	Nanomaterials for Energy & Environment (NEE)
804	eP-39	Optical and Photoelectric Properties of CdTe:In Thin Films Deposited by PVD Technique	Ivanna Vakaliuk, Rostyslav Yavorskyi, Bohdana Naidych, Lyubomyr Nykyruy, Lilia Katanova, Oksana Zamurueva	Nanomaterials for Energy & Environment (NEE)
558	eP-40	Nitrogen-Doped Porous Carbon Derived from Hemp Hurd as Electrode for Aqueous Supercapacitors	Volodymyra Boychuk, Bogdan Rachiy, Ruslan Zapukhlyak, Volodymyr Kotsyubynsky, Mykola Hodlevskiy, Rashad G Abaszade	Nanomaterials for Energy & Environment (NEE)
848	eP-41	Chitosan Cross-Linked Polymer Based Edible Coatings as Tool to Improve Quality and Shelf-	Raj Rani, Poonam Kumari, Disha Disha, Manoj Kumar Patel; Manoj Nayak	Nanomaterials for Energy & Environment

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		Life of Fresh Fruits	Kumar	(NEE)
858	eP-42	Beta Vulgaris-Derived Activated Carbon Electrode Coupled with a Redox Additive Electrolyte for Hybrid Supercapacitor	Ashwinder Kaur, Vishal Shrivastav, Shashank Sundriyal, Isha Mudahar, Sunita Mishra	Nanomaterials for Energy & Environment (NEE)
696	eP-43	Ceramic-Metal Nanocomposite Materials for Biomedical Applications	Svetlana Krivileva, Alexandr Zakovorotniy, Victor Moiseev, Ievgeniia Manoilo, Sergiy Kostenko	Nanobiomedical Research & Applications (NRA)
476	eP-44	Structure Property Relationships for Thermostable Nanocomposites Based on Poly(Benzoxazine-co-Cyanate Ester Resin) and Functionalized Polyhedral Oligomeric Silsesquioxanes	Diana Shulzhenko, Olga Starostenko, Olga Grigoryeva, Alexander Fainleib, Daniel Grande	Nanomaterials Synthesis & Self-assembly (NSS)
502	eP-45	Effect of Multi-Walled Carbon Nanotubes on the Microhardness of Iron-Copper Nanocomposites	Mykola Melnichenko, Sergiy Revo, Yaroslav Zhuk	Nanomaterials Synthesis & Self-assembly (NSS)
526	eP-46	Magnetic Field Induced Effect in the Surface Plasmon Resonance Band of Silver Nanoparticles	Roman Redko, Vitaliy Shvalagin, Grigorii Milenin, Svitlana Redko	Nanomaterials Synthesis & Self-assembly (NSS)
546	eP-47	Synthesis of Gold Nanoparticles by Sonogalvanic Replacement in Sodium Polyacrylate Solutions	Artur Mazur, Mariana Shepida, Galyna Zozulya, Orest Kuntiyi	Nanomaterials Synthesis & Self-assembly (NSS)
566	eP-48	The Nanostructured NiFeCrVMo High-Entropy Alloy Binder versus Traditional Co Binder for WC-based Hard Alloys	Serhii Nakonechnyi, Alexandra Yurkova	Nanomaterials Synthesis & Self-assembly (NSS)
632	eP-49	Design and Structural Investigation of CuIn(Ga)Se ₂ Films for Solar Energy Applications	Sergii Kovachov, Ihor Bohdanov, Natalia Tsybuliak, Hanna Lopatina, Anastasiia Popova, Yana Suchikova	Nanomaterials Synthesis & Self-assembly (NSS)
636	eP-50	Thermal Properties of Sulfur-Doped Graphene Oxide	Rashad G. Abaszade	Nanomaterials Synthesis & Self-assembly (NSS)

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663	eP-51	Size Effect of Wetting of Amorphous Carbon By Micron Particles of Tin	Sergey Petrushenko, Sergey Dukarov, Ruslan Sukhov, Sukhov Volodymyr, Mateusz Fijalkowski	Nanomaterials Synthesis & Self-assembly (NSS)
669	eP-52	DFT Computational and Experimental Studies of Cellulose Molecules Interaction with Carbon Nanostructures	Yuriy Hizhnyi, Tymur Isokov, Viktor Borysiuk, Serhii Nedilko, Yaroslav Zhydachevskyy	Nanomaterials Synthesis & Self-assembly (NSS)
724	eP-53	Electrical and Structural Properties of PEDOT:PSS Polymer Matrices Reinforced with Carbon Nanotubes	Illia Zhydenko, Halyna Klym, Dmytro Chalyy, Ivan Karbovnyk	Nanomaterials Synthesis & Self-assembly (NSS)
763	eP-54	Using Nanoparticles to Study the Axial Structure of a Gas Discharge	Valeriy Lisovskiy, Stanislav Dudin, Sergiy Bogatyrenko, Pavlo Platonov	Nanomaterials Synthesis & Self-assembly (NSS)
771	eP-55	Morphology and Optical Properties of Porous Silicon Filled with Luminescent Oxide Dielectric Nanoparticles	Alla Kuryliuk, Volodymyr Boyko, Olga Gomenyuk, Serhii Nedilko, Kateryna Terebilenko, Petro Teselko, Vasyly Scherbatskyi, Vadym Sheludko, Viktoriya Shevchenko, Vitalii Chornii	Nanomaterials Synthesis & Self-assembly (NSS)
784	eP-56	Study of Defects in the ZnO/SiC/Porous-Si/Si Heterostructure	Valeriy Kidalov, O.Y. Gudimenko, Yuriy Bache-rikov, V.A. Baturin, Olga Okhrimenko, O.Yu. Karpenko, Sergei Simchenko	Nanomaterials Synthesis & Self-assembly (NSS)
826	eP-57	Morphological, Structural, Substructural Characteristics and Chemical Composition of Zn ₂ SnO ₄ Nanoparticles	Sergiy Lufar, Maksym Yermakov, Roman Pshenychnyi, Olga Berezhna, Anatolii Opanasyuk	Nanomaterials Synthesis & Self-assembly (NSS)
770	eP-58	Electrical Noise In ZnO Thin Films Obtained by the PLD Method	Ihor Virt, Mariush Bester, Bogumił Cieniek, Piotr Potera, Andrij Lozynsi	Nanophotonics (NP)
722	eP-59	Structural and Free-Volume Characterization Y-doped BaTiO ₃ Ceramics	Halyna Klym, Yuriy Kostiv	Nanoscale Characterization & Imaging (NCI)
515	eP-60	Formation of Single-domain Structures in BaTiO ₃ upon Phase Transition	Olha Mazur, Leonid Stefanovich, Ken-ichi Tozaki	Theory & Modeling (TM)

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516	eP-61	A Role of Diffusion of Adatoms between Layers in Nano-Structured Thin Films Growth at Condensation	Alina Dvornichenko, Vasyl Kharchenko, Dmitrii Kharchenko	Theory & Modeling (TM)
641	eP-62	Computational Studies of Atomic and Electronic Structures of Phosphate-Molybdate and Phosphate-Tungstate-Vanadate Glass-Ceramics	Yuriy Hizhnyi, Vitalii Chornii, Serhii Nedilko, Kateryna Terebilenko, Yaroslav Zhydashkevskyy	Theory & Modeling (TM)
738	eP-63	Periodic Intermittent Mode of Ice Surface Softening During Friction at Deformational Defect of Ice Shear Modulus	Alexei Khomenko, Roman Chernushchenko, Oleksandr Goncharov, Kateryna Khomenko, Yaroslava Khyzhnya, Iryna Shuda	Theory & Modeling (TM)
774	eP-64	Martensite Transformations in Nanostructured ZrO ₂ Films Formed on Zr-based Alloys during Oxidation	Dmitrii Kharchenko, Vasyl Kharchenko, Olha Shchokotova, Lu Wu, Tianyuan Xin, Rongjian Pan	Theory & Modeling (TM)
475	eP-65	Asymmetric Magnetoresistance of Single-Walled Carbon Nanotubes Filled by Nickel	Denys Oleksandrovych Shpylka, Iryna Ovsienko, Tetiana Len, Liudmyla Matzui, Yuriy Prylutskyi, Tetiana Tsaregradskaya	Transport Properties in Nanoscale Systems (TPNS)
666	eP-66	Modified CdTe Layers	Tetiana Mazur, Myroslav Mazur	Nanomaterials for Energy & Environment
656	eP-67	A New Method of Study of Microwave Magnon-Plasmon-Polaritons	Oleksii Malyshev, Volodymyr Malyshev, Gennadii Melkov, Oleksandr Prokopenko	Nanomagnetism & Magnetic Materials (NMM)
892	eP-68	Analysis of the Possibilities of Using Spin-Valve Structures Based on Fe _x Co _{1-x} and Fe _x Ni _{1-x} and Cu as Functional Elements of Spintronics	Alla Saltykova, Dmytro Saltykov, Yurii Shkurdoda	Nanomagnetism & Magnetic Materials (NMM)
533	eP-69	Low Density Polyethylene Composites Filled With Iron (III) Oxide/Carbon Nanotubes Hybrid Nanoparticles	Anastasiia Kobylukh, Karolina Olszowska, Yevgen Mamunya, Marcin Godzierz, Marta Musioł, Sławomira Pusz, Urszula Szeluga	Nanomaterials Synthesis & Self-assembly (NSS)

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536	eP-70	Segregated Polyethylene/Carbon Black Composites for Embedded Heating and Strain Sensing Elements	Yevheniia Buinova, Anastasiia Kobyliukh, Oleksii Maruzhenko, Yevgen Mamunya, Maksym Iurzhenko, Marcin Godzierz, Sébastien Pruvost, Olha Masiuchok, Roman Kolisnyk	Nanosensors & Nanodevices (NN)
861	eP-71	Development of Fluorescent Silver Nanocluster Incorporated Hydrogel Platform for Detection of Antioxidants	Rocky Raj, Abhay Sachdev, Sunita Mishra	Nanosensors & Nanodevices (NN)
849	eP-72	Synthesis and Characterization of Magnetic Graphene Based Cation Exchanger for Adsorption of Methylene Blue	Poonam Kumari, Disha, Raj Rani, Manoj Nayak Kumar	Nanomagnetism & Magnetic Materials (NMM)
709	eP-73	Electrochemical Synthesis of Nickel-Rhenium Alloys	Oksana Bersirova	Electrochemistry of Nanomaterials (EN)
905	eP-74	Thin Film Deposition of Aluminum on a Silicon Substrate: Computational Modeling & Experimental Study	Rosalba Huerta, Weiling Xia, Owen Bellevage, Benjamin Church, Valentine Novosad	Multifunctional Thin Films & Coatings (MTFC)
612	eP-75	Fullerene C60@{H2O}n: Obtaining Stable Aqueous Solutions using Cryogenic Sublimation	Razet Basnukaeva, Alexandr Dolbin, Mykola Vinnikov	Nanomaterials Synthesis & Self-assembly (NSS)
853	eP-76	Composite Materials Based on Thermally Expanded Graphene and Metal Nanostructures in a Polymer Matrix for Solid-State Batteries	Alena Shumskaya, Alexander Kornev, Serhei Kostevich	Nanomaterials for Energy & Environment (NEE)