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*The NANO-2022 Conference is dedicated to the International Year
of Basic Sciences for Sustainable Development*

10th jubilee International Conference

"Nanotechnologies and Nanomaterials"
NANO-2022



NANO Conference

August 25-27, 2022
the House of Scientists
Lystopadovoho Chynu Str. 6, Lviv, Ukraine



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Dear colleagues!

We are sincerely glad to welcome you to our 10th anniversary conference NANO-2022, which will be held on August 25-27 in the House of Scientists, address: *Lystopadovoho Chynu Str. 6, Lviv, Ukraine*.

Please note that due to the Russian war against Ukraine, not all participants can be present onsite in the Conference Hall, therefore NANO-2022 will be held in hybrid format (offline+online).

For speakers who makes reports online and for those who want to join the discussion online, we propose joining the ZOOM conference via the link for lectors:

<https://us02web.zoom.us/j/86591088645?pwd=R0Q3ekRYOE5zd3RhVWlXS0wrUEx4UT09>

Please, pay attention, that speaker should be connected to the ZOOM 30 minutes before his speech.

The ZOOM link for lectors will be active during all days of the conference.

We highly recommend using our special background during your presentation.

You can download the ZOOM lector background here: <https://fex.net/ru/s/ltplocd>

Presentation template is available by the link: <https://fex.net/ru/s/p63ffvx>

To avoid delays and connection problems, please join 30 minutes before the start of your presentation according to the program.

Also, for everyone who wants to watch the conference, there will be an online LIVE broadcast on YouTube:

The first day of the Conference:

<https://youtu.be/2s2bw8BJ-SY>

The second day of the Conference:

<https://youtu.be/lGEHvOPXd7M>

The third day of the Conference:

<https://youtu.be/zhWfXNRooIw>

If you have, any questions please call head of organizing commity: +380(67) 407 6798
or send E-mail: conference.nano@gmail.com



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10th jubilee International Conference

"Nanotechnologies and Nanomaterials" (NANO-2022)

dedicated to the International Year of Basic Sciences for Sustainable Development

25 – 27 of August 2022

HYBRID FORMAT (Online+onsite format)

6 Listopadovoho Chyna Street, Lviv, House of Scientists

CONFERENCE AGENDA

25.08.2022(6 Listopadovoho Chyna Street, Lviv, House of Scientists)

9:00-18:00	Registration (6 Listopadovoho Chyna Street, Lviv, House of Scientists)
	Welcome speech
	<i>Deputy Minister of Education and Science of Ukraine for European Integration</i> Oleksii Shkuratov
	<i>Directorate-General Research and Innovation of European Commission</i> <i>Seconded National Expert</i> Jana Drbohlavova
	<i>Former Chairman of the National Research Fundation of Ukraine</i> Academician Leonid Yatsenko
9:30-10:00	<i>Charles T. and Ruth M. Bach Distinguished University Professor,</i> <i>Director, A.J. Drexel Nanomaterials Institute, Professor of Sumy State University</i> Yury Gogotsi, D.Sc., Dr.h.c.
	<i>Vice-Rector for Scientific Work at the Lviv National Polytechnic</i> Prof. Chukhrai Natalia
	<i>Head of the organizing commity</i> Dr. Fesenko Olena
	Plenary Section Chairman Acad. Leonid Yatsenko
10:00-10:25 (online)	Dr. Krzysztof Pomorski "Description of electrostatic semiconductor quantum dot based swap gate interacting perturbatively with Josephson junction" Cracow University of Technology Poland
10:25-10:50 (online)	Prof. Przemysław Raczynski «Self-sealing properties of phospholipid membranes after interactions with various nanostructures - MD study» University of Silesia Poland
10:50-11:15 (online)	Prof. Leonid Dolgov "Why plasmon enhancement coefficient is different for light absorption, scattering and luminescence effects" University of Tartu Estonia
11:15-11:40 (online)	Prof. Alexei Nazarov "RF plasma modification of MoS ₂ 2D material " Lashkaryov Institute of Semiconductor Physics NASU Ukraine
11:40-12:05 (online)	Prof. Mauro Pereira « Giant GHz-THz Nonlinearities in Superlattices with applications to THz medical diagnostics» Khalifa University Abu Dhabi United Arab Emirates
12:05-12:30 (online)	Prof. Serhii Nedilko " Polymer and inorganic glass-ceramics nanocomposites filled with luminescent oxides" Taras Shevchenko National University of Kyiv Ukraine
12:30-13:25	Coffee break and Conference photo
	Chairman Dr. Oleg Dimitriev
13:25-13:50 (online)	Dr. Dovydas Karoblis The influence of annealing temperature on various properties of $Bi_{1-x}Gd_xFe_{0.85}Mn_{0.15}O_3$ solid solutions prepared via sol-gel synthesis. Institute of Chemistry, Vilnius University, Lithuania (TransFerr project)
13:50-14:15 (online)	Prof. Anna Morozovska "Could the negative capacitance effect be used in FETs with a ferroelectric gate?" Institute of Physics, NAS of Ukraine (TransFerr project)
14:15-14:40 (online)	Dr. Andrius Pakalniškis "High-Pressure effects on Sm doped BiFeO ₃ " Institute of Chemistry, Vilnius University, Lithuania (TransFerr project)
14:40-15:05 (Lviv)	Dr. Oleg Dimitriev "Immobilization-induced enhancement of S2 fluorescence of near-infrared dyes due to interaction with carbon quantum dots" Lashkaryov Institute of Semiconductor Physics Ukraine

15:05-15:30 (Unknown)	Prof. Georgiy Levchenko "Silicon nanoparticles preparation and the formation of carbon-silicon hybrid nanoparticles for sensor applications" Donetsk Phys. Technical Institute NAS of Ukraine Ukraine
15:30-15:45	Coffee break
Section "Nanocomposites and nanomaterials"	
	Chairman Prof. Anatoliy Negriyko
15:45-16:00 (online)	Prof. Gennady Monastyrsky "Origin of band contrast on TEM and HRTEM images of nanoparticles obtained by pulsed electrical discharge" Igor Sikorsky Kyiv Polytechnic Institute Ukraine
16:00- 16:15 (Lviv)	Dr. Anton Tkachenko "Genotoxicity of GdVO ₄ :Eu ³⁺ nanoparticles in vitro: an experimental assessment" Kharkiv National Medical University Ukraine
16:15-16:30 (Lviv)	Dr. Karina Valihura "Fast synthesis of Mg-Al-hydrotalcite derived nanosystems with enhanced catalytic performance in the Guerbet ethanol condensation" L.V. Pisarzhevskii Institute of Physical Chemistry of the NAS of Ukraine
16:30-16:45 (Lviv)	Prof. Olena Lavrynenko « Comparative analysis of nanostructures formed by the chemical route in the iron-lanthanum-containing systems» Frantsevich Institute for Problems in Material Science, NAS of Ukraine .
16:45-17:00 (online)	Prof. Volodymyr Krivoruchko "Observation of spin-selective collective excitations of the condensates relative phase in proximitized singlet superconductor – half-metallic manganite nanostructures" Donetsk Institute for Physics and Engineering, the NAS of Ukraine
17:00-17:15 (Lviv)	PhD student Oksana Zikrata «Guerbet condensation of ethanol and 1-butanol over hydroxyapatite nanocatalysts» L.V. Pisarzhevskii Institute of Physical Chemistry of the NAS of Ukraine .
17:15-17:30 (online)	Dr. Vitalii Chornii "Preparation and optical properties of phosphotungstate nanostructured glass-ceramics" National University of Life and Environmental Sciences of Ukraine
17:30-17:45 (Unknown)	Prof. Peter Kopcansky "Optimization of multilayered electromagnetic shields using mesh adaptive direct search" Institute of Experimental Physics Slovak Academy of Sciences Slovakia
17:45-18:00 (online)	PhD student Lucinda Blanco Redondo « Supported Ir nanoparticles as catalyst for water electrolyzers: from synthesis to real application.» Charles University, Faculty of Mathematics and Physics, Department of Surface and Plasma Science, Czech Republic
18:00-18:15 (online)	PhD student Dariusz Chomicki « Surface relief gratings in methacrylic polymers containing quinoline-based azo-dyes» Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University in Torun, Poland
18:15-18:30	Information session about Horizon Europe, SMP & EEN Programs.
18:30-19:00	Welcome networking cocktail party (Free entrance)
10:00-19:00	Poster Session

26.08.2022(6 Listopadovoho Chyna Street, Lviv, House of Scientists)

09:00-18:00	Registration
	Chairman Prof. Olena Lavrynenko
09:00-09:15 (Lviv)	Dr. Volodymyr Sohatsky "Antiferromagnetic composites for spin electronics" Taras Shevchenko National University of Kyiv
09:15-09:30 (online)	Prof. Alexander Rud "Carbon nanospheres: synthesis and structure" G. V. Kurdyumov Institute for Metal Physics of N.A.S. of Ukraine
09:30-09:45 (online)	Prof. Lyubov Patrylak "Natural zeolites modified with silver nanoparticles as promising sorbents with antibacterial properties" V.P.Kukhar Institute of Bioorganic Chemistry and Petrochemistry of NAS of Ukraine
09:45-10:00 (Lviv)	Dr. Olga Larina «Catalytic properties of Zn-Mg(Zr)Si oxide nanosystems modified with alkali metals and rare-earth elements in the 1,3-butadiene production from ethanol» L.V. Pisarzhevskii Institute of Physical Chemistry of the NAS of Ukraine

10:00-10:15 (online)	Dr. Victor Kislyuk <i>"Structural anisotropy of ethylene vinyl acetate film"</i> G.V.Kurdyumov Institute of Metal Physics Ukraine
10:15-10:30 (online)	Prof. Yurii Sementsov <i>"Electrophysical and strength characteristics of polychlorotricfluoroethylene filled with carbon nanotubes dispersed in graphene suspensions"</i> Chuiko Institute of Surface Chemistry of NAS of Ukraine
10:30-10:45 (online)	Prof. Oleksandr Bochechka <i>"Intensification of the compaction process of diamond nanopowder under high pressure and high temperature"</i> V. Bakul Institute for Superhard Materials of the National Academy of Sciences of Ukraine
10:45-11:00 (Lviv)	Prof. Prokopiuk Volodymyr <i>"LaVO₄:Eu³⁺ nanoparticles show no genotoxicity on fibroblast cultures"</i> Institute for Problems of Cryobiology and Cryomedicine, National Academy of Sciences of Ukraine, Kharkiv, Ukraine
11:00-11:15	Coffee break
11:15-11:30 (online)	Dr. Yevheniia Lobko <i>"Pt-based catalysts: synthesis, structure, electrochemical activity and durability towards oxygen reduction reactions"</i> Charles University Czech Republic
11:30-11:45 (online)	Dr. Alla Dyachenko <i>"Bulk and supported nanocatalysts for hydrogenation of CO₂: improvement or degradation?"</i> Chuiko Institute of Surface Chemistry of NASU Ukraine
11:45-12:00 (Lviv)	Dr. Mykhailo Kurmach <i>"Hierarchical zeolites as potential catalyst for Bayer-Villiger oxidations for cyclic ketones using H₂O₂"</i> L. V. Pisarzhevsky Institute of Physical Chemistry Ukraine
12:00-12:15 (online)	PhD student Malgorzata Sypniewska <i>"Influence of the conductive polymer matrix on the structural and optical properties of metalloquinolates and their derivatives"</i> Institute of Physics, Faculty of Physics, Astronomy and Informatics, Nicolaus Copernicus University in Torun, Poland
12:15-12:30 (online)	Student Dmytro Zhytnyk <i>"Effect of chlorination on the interaction of carbon fibers with electromagnetic radiation in the ultrahigh-frequency range"</i> Taras Shevchenko National University of Kyiv Ukraine
12:30-12:45 (unknown)	Dr. Dora Zakarian <i>"Evaluation of the degree of solid solution hardening of multielement metal composite material's diborides"</i> Frantzevich Institute for Problems of Materials Science, Ukraine
12:45-13:00 (unknown)	Prof. Victoria Vorobyova <i>"Sustainable-green synthesis of silver nanoparticles using waste extract obtained by deep eutectic solvent. Characterization, assessment of their electrochemical and antioxidant activities"</i> National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute" Ukraine
13:00-14:00	Lunch
	Chairman Andriy Yaremkevych
14:00-14:15 (online)	Dr. Oksana Balaban <i>"Polymer coatings & brushes: electro-physical study and application"</i> Lviv Polytechnic National University Ukraine
14:15-14:30 (Lviv)	PhD student Pavlo Polynchuk <i>"Structural and magnetic properties of lanthanum-strontium manganite nanopowder"</i> Institute of Magnetism NAS of Ukraine and MES of Ukraine
14:30-14:45 (online)	Dr. Ievgen Beliak <i>"Optimization of photoelectric converters"</i> Institute for Information Recording of NASU Ukraine
14:45-15:00 (online)	PhD student Vladyslav Borynskyi <i>"Enhanced magnetic anisotropy in small-sized elliptical synthetic-antiferromagnets"</i> Institute of Magnetism of the NAS of Ukraine and MES of Ukraine
15:00-15:15 (online)	PhD student Alina Madalina Darabut <i>"Percolation behavior in electrical conductivity in epoxy resin/thermally expanded graphite nanocomposites"</i> Department of Surface and Plasma Science, Faculty of Mathematics and Physics, Charles University Czech Republic
15:15-15:30 (online)	Ph.D. Student Yurii Kachurak <i>"Sensitive liquid crystal composites for optical sensors"</i> Lviv Polytechnic National University, Department of Electronic Engineering Ukraine
15:30-15:45 (online)	PhD student Vitalii Zadorozhnii <i>"Ab initio study of the piezoelectric effects of the 2D semiconductors of IV group monochalcogenides (GeSe, GeS)"</i> Kryvyi Rih State Pedagogical University Ukraine
15:45-16:00	Coffee break
Section "Physico-chemical nanomaterials science"	
16:00-16:15	PhD student Denys Samoilenko <i>"Plasma-catalytic conversion of CO₂-CH₄ over metal-oxide"</i>

(online)	<i>catalysts</i> » L.V. Pisarzhevskii Institute of Physical Chemistry of the NAS of Ukraine .
16:15-16:30 (Lviv)	Prof. Sergiy Kurta "Decrystallization and stabilization of liquid bee honey during storage" Department of Chemistry Precarpathian National Vasyl Stefanyk University, Ukraine
16:30-16:45 (online)	Dr. Oksana Koplak «Slowed magnetic relaxation in the Er ³⁺ single ion magnet in the absence of external magnetic field» Politecnico di Milano, Italy .
16:45-17:00 (online)	Dr. Aleksandra Bazan-Wozniak "Adsorption of cationic dye onto biocarbons: Kinetics and thermodynamic study" Adam Mickiewicz University in Poznań, Faculty of Chemistry Poland
17:00-17:15 (online)	Daryna Mruga "Development and characteristics research of ALT-sensitive biosensor" Institute of Molecular Biology and Genetics, NASU Ukraine
17:15-17:30 (unknown)	Yevheniia Nesterenko "The effect of electrolytic aggregation of Au nanoparticles on optical characteristics of AgInS ₂ /ZnS QDs modified with oligonucleotides" Institute of Molecular Biology and Genetics of NASU Ukraine
17:30-17:45 (Unknown)	Dr. Petro Lytvyn "Nanoelastics of Gel-xSnx films driven by composition and structural relaxation " V. Lashkaryov Institute of Semiconductor Physics NAS Ukraine
09:00-18:00	Poster Session

27.08.2022(6 Listopadovoho Chyna Street, Lviv, House of Scientists)

Section "Nanooptics and photonics"

Chairman Dr. Fesenko Olena

09:00-09:15 (online)	PhD student Yaroslavna Kashyrina "Polarons and bipolarons in one-dimensional systems (arbitrary coupling)" Taras Shevchenko National University of Kyiv Ukraine
09:15-09:30 (online)	Dr. Denys Myroniuk "Structure, optical properties and photocatalytic activity of undoped, Nd-doped ZnO nanocomposites" Frantsevich Institute for problems of materials sciences of the NAS of Ukraine
09:30-09:45 (online)	Dr. Oleh Yermakov "Polarization degree of freedom for guided waves" V. N. Karazin Kharkiv National University Ukraine
09:45-10:00 (Lviv)	Prof. Anatoliy Negriyko "The threshold of laser-induced damage of image sensors in open atmosphere" Institute of Physics NAS of Ukraine
10:00-10:15 (online)	Dr. Oksana Krupka "Optical Properties of Chromophore-Containing Methacrylate Based Polymers " Taras Shevchenko National University of Kyiv, Ukraine
10:15-10:30 (Lviv)	Student Arthur Medvid «Investigation of nanoscale core-shell structure of silicon microcrystal doped by boron and nickel: properties and application» Lviv Polytechnic National University, Ukraine .
10:30-10:45 (online)	Dr. Oleksandr Oberemok "Effect of implantation of Ho and Nd ions on the physical properties of thin ZnO films" Lashkaryov Institute of Semiconductor Physics Ukraine
10:45-11:00 (unknown)	Prof. Eugene Glushko "Extremely narrow resonances in defect containing photonic structures for metrology, sensing, collimation, signal processing and spectroscopy " Institute of Semiconductor Physics, NAS of Ukraine
11:00-11:15	Coffee break

Section "Nanochemistry and biotechnology"

11:15-11:30 (online)	Dr. Halyna Dubova «Increased synthesis of biologically active components of medicinal mushrooms» National Technical University of Ukraine "I. Sikorsky Kyiv Polytechnic Institute", Ukraine .
11:30-11:45 (online)	Dr. Andrii Panko "Nanostructural and biocolloid transformations of bottom sea sediments and physicochemical methods of their separation" F.D.Ovcharenko Institute of Biocolloidal Chemistry NAS of Ukraine
11:45-12:00 (Lviv)	Dr. Liudmyla Shkotova «The use of metal nanoparticles of the platinum group to improve the analytical characteristics of enzyme biosensors for application in biotechnological industries»

	Department of Biomolecular Electronics, Institute of Molecular Biology and Genetics, NAS of Ukraine
12:00-12:15 (Lviv)	Prof. Irina Voloshina <i>"Green biosynthesis of nanoparticles using Lactobacillus"</i> Department biotechnology, leather and furs, National University of Technologies and Design Ukraine
12:15-12:30 (online)	Dr. Alla Tereshchenko <i>"Toward development of new optical immunosensors based on nanostructured ZnO thin films"</i> Odesa National I.I. Mechnikov University, Ukraine
12:30-12:45 (Lviv)	PhD student Oksana Karpenko <i>"Mechanism of methanol interaction with defects on graphene-like materials: quantum chemical study"</i> O.O. Chuiko Institute of Surface Chemistry, National Academy of Sciences of Ukraine
12:45-13:00 (Lviv)	Prof. Dmytro Zayachuk <i>"Ion nanostructuring of crystal surfaces and processes of self-organization"</i> Lviv Polytechnic National University Ukraine
13:00-14:00	Lunch
Section " Nanoscale physics and Nanostructured surfaces"	
Chairman Prof. Sergiy Kurta	
14:00-14:15 (Lviv)	Dr. Natalia Rusinchuk <i>"Theoretical study of the interactions inside the system of N nanoparticles"</i> Taras Shevchenko National University of Kyiv Ukraine
14:15-14:30 (online)	Student Oleksii Bereznykov <i>"Controlled self-ordering in the dynamics of forming periodic quasi-one-dimensional "</i> Igor Sikorsky Kyiv Polytechnic Institute Ukraine
14:30-14:45 (online)	Prof. Mikhail Belogolovskii <i>"Charge transport through superconducting nanodevices"</i> Kyiv Academic Institute Ukraine
14:45-15:00 (online)	Prof. Olena Rogachova <i>"Quantum size effects and transport properties of Bi₂(Te_{1-x}Se_x)₃ 3D-topological insulators thin films"</i> National technical university "Kharkiv polytechnic institute" Ukraine
15:00-15:15 (online)	Prof. Sergiy Kotrechko <i>"Stochastic nature of failure of carbyne-graphene nanoelements under thermomechanical loading"</i> G.V. Kurdyumov Institute for Metal Physics, National Academy of Sciences of Ukraine
15:15-15:30 (Lviv)	Prof. Evgen Len <i>"Positron spectroscopy of nanoscale regions of homogeneous atomic and magnetic orderings in strongly correlated alloys"</i> G.V. Kurdyumov Institute for Metal Physics, NAS of Ukraine
15:30-15:45 (Lviv)	Dr. Myroslav Sushko <i>"Short-scale scattering effects in critical fluids and heterogeneous media "</i> Odesa I.I.Mechnikov National University Ukraine
15:45-16:00 (online)	PhD student Aleksandr Murmantsev <i>"Plasma Emission Spectroscopy of Underwater Discharge in the Synthesis of Metal Nanoparticle"</i> Faculty of Radiophysics, Electronics and Computer Systems, Taras Shevchenko National University of Kyiv Ukraine
16:00-16:15 (online)	PhD student Anastas Romansky <i>"Electronic structure of Ni, Pd and Pt ultrathin films"</i> G. V. Kurdyumov Institute for Metal Physics of the N.A.S. of Ukraine
16:15-16:30 (Lviv)	PhD student Khrystyna Metsan <i>"Effect of the electric field and the acceptor impurity on the energy spectrum of spherical quantum dot"</i> Drohobych Ivan Franko State Pedagogical University Ukraine
09:00-17:00	Poster Session



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POSTER SESSION

10:00-18:00	Poster Session 25.08.2022
	Section "Nanostructured surfaces"
	Dr. Svitlana Petrovska « <i>Properties of multilayer aluminum-doped indium saving ITO thin films deposited by sputtering method</i> »
	Dr. Svitlana Petrovska « <i>Iron-doped indium-saving indium tin oxide thin films deposited by DC sputtering method using Fe₃O₄ target</i> »
	Dr. Dmytro Vinnychenko « <i>Structure and properties of carbon-containing nanostructured coatings on metal surfaces obtained by electric discharge in gas and electric explosion of electrical conductors</i> »
	Dr. Volodymyr Posuvailo « <i>Structural transformations in oxide ceramic coatings formed on aluminum alloys in silicate electrolyte</i> »
	Prof. Tetiana Mazur « <i>Investigation mobility of current carriers from temperature for CdTe and PbTe thin films</i> »
	PhD student Ihor Skrypnyk « <i>Investigation of frontal functional nanolayers of solar silicon using electrochemical technologies of porous silicon</i> »
	Ph.D. Olha Maksymiv « <i>Corrosion-mechanical properties of structural steels with surface nanostructure</i> »
	Dr. Yevhen Petrenko « <i>Temperature dependence of coherence lengths for optimally-doped YBa₂Cu₃O_{7-δ} thin films</i> »
	Student Nazar Shvachko « <i>Ni nanostructures on semiconductor surfaces</i> »
	Ph.D. student Oleh Izhyk « <i>Peculiarities of the formation of functional oligomer brushes onto a glass surface in dilute and semi-dilute regimes</i> »
	PhD student Ivanna Vakaliuk « <i>The morphology investigation of the cadmium sulphide thin films for solar cell applications</i> »
	Prof. Agnieszka Nosal-Wiercińska « <i>Catalytic activity of acetazolamide on electroreduction of In(III) in chlorates(VII); use of a nanostructured cyclic renewable film of liquid silver amalgam electrode (R-AgLAFE)</i> »
	Dr. Oksana Strilchuk « <i>Morphological changes of structures with surface quantum dots under the gamma irradiation</i> »
	Prof. Sergey Ryabtsev « <i>Physical properties of Fe-Ag-Pt films</i> »
	Prof. Malgorzata Wiśniewska « <i>Study of the nanostructure of the mixed adsorption layer of heavy metal and diclofenac on the surfaces of synthetic zeolites and their carbon composites</i> »
	Viktor Borysiuk « <i>Theoretical prediction of adsorption characteristics of cellulose molecules on the surface of carbon nanostructures</i> »
	Section "Nanocomposites and nanomaterials"
	Prof. Tatyana Zheltonozhskaya « <i>Promising nanobiotechnology to increase the shelf life of chicken eggs based on nanosilver preparation in hybrid carriers</i> »
	PhD student Oleksandr Shyrokov « <i>XRD studies of the precursor thermal decomposition in the production of nanopowders LaLuO₃:Yb³⁺ with a perovskite type structure</i> »
	Dr. Halina Mykhailova « <i>Optimization of electronic properties of carbon nanostructures</i> »
	PhD student Mykola Yakymchuk « <i>Electrical conductivity features of metal-carbon nanocomposites</i> »
	Student Anna Gusak « <i>Nanostructured adsorbents for arsenic compounds removal</i> »
	Dr. Tetiana Barlas « <i>Nanocomposites based on porous III-V semiconductors</i> »
	PhD student Denys Shpylka « <i>Transport properties of surface modified single-walled carbon nanotubes</i> »
	PhD student Mariia Khemii « <i>Structural and morphological properties of ultrasonic-modified NiMoO₄ hydrate</i> »
	Prof. Volodymyr Dutka « <i>Nanocomposites of polyaniline and polymethacrylic acid</i> »
	Dr. Yuliia Horbenko « <i>Electrochromic and gas-chromic properties of conjugated polymer films doped with nanoclusters on flexible substrates</i> »

Dr. Orest Fliunt «*Evolution of low-frequency dispersion in solids with change of temperature*»

PhD student Taras Benko «*Method Of Reducing Cmos Inverter Switching Energy*»

Dr. Viktor Nikolaenko «*Thermo-Effect at Transition Surface Electron to Surface Polaron over Superfluid Helium Film on Structured Substrate*»

Dr. Iryna Ovsienko. «*Transverse resistivity of acceptor graphite intercalation compounds*»

Prof. Vasyi Moiseienko «*Photoluminescence of Eu³⁺ ions in thin-film opals and resonator structures based on them with spatial localized feedback*»

Dr. Vitalii Chornii «*Computational investigation of atomic and electronic structures of phosphate-based crystal-glass composites*»

PhD student Nazar Popilovskyi «*Fabrication of Cu-based-CNT composites via electroplating and powder metallurgy techniques.*»

PhD student Nazar Popilovskyi «*Formation of nanoscale phases during rapid solidification of Al-Cu-Si alloys*»

PhD student Maksym Yermakov «*Raman investigations of Cu₂MgxZn_{1-x}SnS₄ films with different chemical composition*»

Dr. Liudmyla Sukhodub «*Antimicrobial Properties of Nanocomposite Biomaterial for the Treatment of Purulent Wounds and Infected Ulcers*»

Prof. Ruslan Politsanskyi «*"The model of a giant magnetoresistance, built taking into account the bulk scattering of spins of conducting electrons"*»

Prof. Bohdan Tsizh «*Combined Polymer Nanostructures for Selective Gas Sensors*»

Dr. Olga V. Vashchenko «*Novel Liquid Crystal System For Transdermal Drug Delivery*»

PhD student Oleksii Syvolozhskyi «*Electro-transport properties of CNT decorated by FeNi nanoparticles*»

Dr. Oleksandr Kushnerov «*Structure and properties of CoCrFeNiMnBe high-entropy alloy films obtained by liquid quenching*»

PhD student Vitalii Maksymych «*Nitrogen-doped carbon for supercapacitors: synthesis, properties and applications*»

Dr Olga Prygunova «*Nanocomposites NiFe(CoFe)/Silica(Alumina) for the catalytic hydrogenation of CO₂*»

Dr. Inna Kirian «*Hydrogen sorption/desorption kinetics in the Mg-C system*»

Prof. Malgorzat Grabarczyk «*Carbon nanotubes as a base material for working electrodes increasing the sensitivity of determinations in stripping voltammetry*»

Prof. Yurii Sementsov «*Electrophysical and strength characteristics of polychlorotrifluoroethylene filled with carbon nanotubes dispersed in graphene suspensions*»

Dr. Rabie Amari «*Investigation of the effect of Ni Doping on the Structural, Luminescence, Optical and Electronic Properties of ZnO Nanopowders*»

Dr. Oleg Lytvynenko «*Hong-Ou-Mandel quantum effect on "polymer - multiwall CNT" composites*»

PhD student Hanna Rostova «*Radiation resistance of steel T91 after deformation in different structural states*»

Prof. Bahri DEGHFEL «*Effect of high Ni Doping on the properties of ZnO Nanopowders*»

PhD student Khrystyna Hutsul «*Functional nanomaterials based on zinc oxide*»

PhD student Anna Nazar «*Catalyst containing natural nanosilica, palladium(II) and copper(II) salts in oxidation of carbon monoxide with oxygen*»

Section "Physico-chemical nanomaterials science"

Dr. Dmytro Koziarskyi «*Electrical properties of p-CuCoO₂/n-Si heterojunction*»

V.M. Sidak «*Space-charge polarization phenomena in single crystal and ceramics of bismuth sodium titanate*»

Prof. Malgorzata Wiśniewska «*Polymers and metal ions adsorption on the surface of biochars obtained from the nettle and sage herbs*»

Dr. Ivan Koziarskyi. «*Features of the electrical properties of ZnO:Al/ZnS/n-CdTe heterojunctions*»

Dr Ewa Skwarek «*Selected physicochemical properties of hydroxyapatite and white - blue clay composite*»

Dr. Markiyan Kushlyk « <i>Mechano-chemical modification of β-Ga₂O₃ and β-Ga₂O₃:Eu micropowders by plasmonic nanoparticles</i> »
Prof. Valerii Barbash « <i>Extraction of organosolv pulp and nanocellulose from post-harvest residues of corn</i> »
Dr. Artem Kozyrev « <i>Metal-based nanocrystalline materials condensed from the vapor phase</i> »
Dr. Svitlana Chernii. « <i>Synthesis and photophysical properties of indolenine styrylcyanine dye and its carboxyl-labeled derivative</i> »
Prof. Pavlo Galiiy « <i>Indium deposited nanosystems formation on 2D layered chalcogenide crystals' surfaces</i> »
PhD student Khrystyna Vlad « <i>Electrochemical hydrogenation properties of Ni/Co-C composites</i> »
Dr. Ivan Babichuk. « <i>Raman mapping few-layer MoS₂ to develop flexible electronics</i> »
PhD student Mariia Samsonenko « <i>Photocatalytic performance of mixed lithium niobates-tantalates prepared by mechanochemical methods</i> »
PhD student Miglè Babelytė « <i>Synthesis and lower critical solution temperature behavior of chitosan and N-isopropylacrylamide graft copolymers</i> »
Dr. Victoria Chornovol « <i>Vapor-condensed composite materials Ni-Al₂O₃, NiCr-Al₂O₃ with oxide nanophase</i> »
Dr. Svitlana Khalameida « <i>Mechanochemical transformation of Pb₂MoO₅ single crystal into nano-dispersed state</i> »
Dr. Dmytro Slobodzyan « <i>Study of point-defect complexes reconstruction in silicon near-surface layers under the ion implantation process</i> »
Prof. Evgeny Polunkin « <i>Synthesis And Structure Of Carbon Nanospheres In Liquid Phase</i> »
Prof. Robert Pietrzak. « <i>Study of biocarbons derived from residue after supercritical extraction of carrot seeds from adsorption of gaseous NO₂</i> »
PhD student Valentina Voloshchuk. « <i>Effect of Intensifying Additives on the Properties of Celsian Ceramics</i> »
Dr. Eugen Dukhopelnikov. « <i>Proflavin binding to LSMO nanoparticles at temperatures above and below the Curie point</i> »
PhD student Yuriy Bilogorodskyy. « <i>Phase stability of nanostructured materials under irradiation</i> »
PhD student Vasyl Hreb « <i>Sol-gel derived ZnAl₂O₄ nanopowders co-doped with Cr³⁺, Er³⁺ and Yb³⁺ ions</i> »
Dr. Anton Lytvynenko. « <i>Catalytic activity of composites of nickel boride nanoparticles and anodic nanoporous alumina in hydrogenation reactions</i> »
Student Vadym Soloviov « <i>Hydrophobization of the surface of carbon nanomaterials using the Diels–Alder reaction</i> »
Dr Olga Prygunova « <i>Surface functionalization of nanoporous carbons with sulfur- and halogen-containing groups</i> »
Student Vadym Soloviov « <i>The catalytic activity of phosphotungstic acid-carbon nanocomposites in the dehydration reaction of bioethanol</i> »
Dr. Volodymyr Povazhnyi. « <i>The post-carbonization stage of carbon materials synthesis as a factor influencing its thermal stability</i> »
Dr. Victor Prysiashnyuk « <i>Flooding of massive samples and thin films of the Gd-Fe system</i> »
Dr. Andriy Kapran. « <i>Effect of Zn-BEA zeolites dealumination on their catalytic performance in propane dehydrogenation to propylene with CO₂</i> »
Prof. Alexander Molnar « <i>Influence of the In-Ga substitution on the physical properties of layered CuInP₂S₆ crystals</i> »
PhD student Yuriy Venhryn « <i>Photoluminescent properties in different gas ambient of ZnO nanopowders doped by Mo and V</i> »
Student Dmytro Zhytnyk. « <i>Effect of chlorination on the interaction of carbon fibers with electromagnetic radiation in the ultrahigh-frequency range</i> »



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Student Oleksii Dovgan «Effect of the bromination method of PAN carbon fibers on their interaction with ultrahigh-frequency electromagnetic radiation»

Dr. Nadiia Artyukhova «Optimization of the drying devices functioning in the process of forming the ammonium nitrate's nanoporous structure»

Dr. Artem Artyukhov. «Formation process of the nanoporous structure in porous ammonium nitrate granules: indicators of influence»

Dr. Artem Artyukhov. « Formation of a nanoporous coating on urea granules»

Dr. Andrey Sarikov "Molecular Dynamics Simulation of the Formation of Extended Defect Structure in 3C-SiC Thin Films on Si(001) Substrates"

09:00-18:00 Poster Session 26.08.2022

Section "Nanocomposites and nanomaterials"

Prof. Lyudmyla Karabanova «Thermal properties of the POSS-containing nanocomposites based on PU/PHPMA semi-IPNs»

PhD Oksana Isaieva «Influence of different polymers on photoluminescence of colloidal ZnO nanocrystal»

PhD Oksana Isaieva «Ex-situ vs. in-situ fabrication routes for luminescent nanocomposites C-dots/porous silica»

Dr. Ievgen Beliak. «Optimization of photoelectric converters»

Student Nadiia Diyuk «Properties of the nanosized zinc pyrovanadate synthesized by mechanochemical, barothermal and ultrasonic methods»

Student Nadiia Diyuk «Mechanochemical synthesis and characterization of ZnMoO₄·0,8H₂O, and ZnMoO₄ nanostructures»

Dr. Nataliya Permyakova. «Properties of natural heteropolysaccharide xanthan in aqueous solutions and its compositions with cobalt nanoparticles»

PhD student Serafym Lopatko «The main ways for metal nanoparticles degradation»

PhD student Larysa Lopatko «Application of nanoparticles of metal oxides In wooden building materials»

Student Irina Slobodanyk «Adsorption and protolytic properties of nanocryptomelane and its activity in ozone decomposition reaction»

Dr. Larisa Kunitskaya. «The influence of relative humidity on the ion (proton) conductivity of the intramolecular polycomplexes»

Dr. Vitalii Honcharov "Thermal efficiency of nanoscale aluminum layer modified by ionic implantation"

Prof. Tatyana Zheltonozhskaya. «Graft copolymer-assisted synthesis of nickel nanoparticles in aqueous solutions»

Dr. Pavel Maksimchuk «Hydroxyl radicals scavenging by small oxide nanocrystals with variable valence ions»

Prof. Djamel Allali «Structural, elastic and thermodynamic properties of Ag-based oxides XAgO (X = Li and Na): An ab initio study»

Dr. Nataliya Kussyak. «Study of the adsorption of Immunoglobulin humanum by functionalized - NH₂, - SH, - COOH groups on the surface of nanoscale magnetite»

Dr. Andrii Kussyak «In vitro study of the bioactivity of sol-gel glass 60S doped with Y»

PhD student Yevhenii Zabolotnii «Photocatalytic activity of nanosized TiO₂/Al₂O₃ and TiO₂/MgO composites synthesized by ultrasonic method in the decomposition of metronidazole»

PhD student Vladimir Zaika «Effect of alternative treatments methods on the electronic structure of ZrO₂-TiO₂»

PhD student Vladyslav Zamorskyi "Features of dispersion of dimensional and magnetic parameters in spinel ferrite nanoparticles"

Dr. Valentyn Rudenko «Ultrafast dynamics of carrier relaxation in PdO thin films»

Student. Elysaveta Polishchuk «Structure of the Composites Based on Bacterial Cellulose and Multi Walled Carbon Nanotubes»

PhD student Alexandr Boychuk. «Formation of active interphase on the iron particles in c/pvdf media»



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Dr. Lesya Demchenko. «Magnetic and structural features of aged Cu-Al-Mn-Fe alloys»

Prof. Volodymyr Vasylechko «Antimicrobial activity of transcarpathian clinoptilolite modified with salts of transition metals»

Student Bohdan Maidanyk «Effect of Ar⁺ treatment on thermal stability and micromechanical properties of Fe₇₅Mo₅Si₆B₁₄ amorphous alloy»

Section "Nanooptics and photonics"

PhD student Polina Pisklova «Interaction between Molecular Aggregates Incorporated in Layered Polymer Films»

Dr. Andrii Sizhuk «Processing the analytical optical signals by the means of the system of the nickel nanostripes, deposited on the glass substrate and the chromium nanofilm»

PhD student Ihor Danylenko «Peculiarities of nanoscale structural defects in multisectoral HPHT-diamond plates reviled by selective etching»

Dr. Alexander Sorokin «Effect of J-aggregates' Formation in Liquid Crystal Matrix on Their Optical Properties»

Prof. Andriy Luchechko "Structural and photoluminescence properties of β -Ga₂O₃ nanocrystals obtained by mechanosynthesis"

Dr. Leonov D. «Kinetic and Electrostatic Control of Electroluminescence in Molecular Junctions»

Dr.Bochkova T.M. «The influence of the initial charge composition on the electrical and optical properties of the single crystals of PbO – MoO₃ system»

Section "Nanoscale physics"

PhD student Danyil Azarkh «Viscoelastic properties of starches measured by the ferrofluid droplet deformation method»

A.M. Korostil «Magnetic Field-Controlled Light Transmission in Ferronematic Liquid Crystals»

A.M. Korostil «On spintronic torque effect in multilayer magnetic nanostructures»

A.M. Korostil «Electrical excitation of magnetic spin waves in nanoheterostructures»

Atamas N.O. «Structural features of aqueous solutions of alcohols»

PhD student Sviatoslav Semchuk "Mechanical Properties Of Si/Ge Core-Shell Nanowires: Molecular Dynamics Simulations"

Dr. Vitalii Borblik «Electrostatics of a nanowire heterostructure radial p-i-n diode»

Prof. Petro Kostrobii. «Modeling of thermodynamic characteristics of 2D electronic layers near the surface of an atomically thin dielectric»

Prof. Petro Kostrobii. «Gate tunable electron interaction in atomically thin dielectric films»

Dr. Eduard Zubov. «Spin-reorientation phase transition and nonequilibrium thermodynamics of compensated ferrimagnet ErFeO₃»

PhD student Vasyl Hutiv «Quantum theory of energetic parameters in two-well nanostructure, being a main operating element of broadband photodetector functioning in far IR range»

PhD student Anatolii Biliuk.«Kinetic theory of magnetic absorption of laser irradiation by a metallic nanoparticles»

Dr. Stepan Syrotyuk «The effect of the pressure on electronic structure of the doped solid solutions ZnSeTe:T (T=Cr, Mn, Fe)»

PhD student Andriy Velgosh. «Transitional processes in a incommensurate superstructure in the surface energy field»

Prof. Eugene Strativnov «CFD-simulation and analyses of cavitation and dispersion processes for globulated multilayer graphene obtaining»

PhD student Andriy Velgosh. «Transition from order to chaos of incommensurate superstructure described by the Lifshitz invariance under conditions $n = 3$ »

PhD student Olha Boliasova. «RF-dynamics of vortex kinks in the mixed state of nanostructured superconductors with columnar defects»



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PhD student Maryna Chubrei. «Optical absorption in core-shell quantum antidot with donor impurity under applied co-directed electric and magnetic fields»

Prof. Evgen Len «Positron spectroscopy of nanoscale regions of homogeneous atomic and magnetic orderings in strongly correlated alloys»

Prof. Volodymyr Holovatsky. «Magnetic field effect on the optical properties core-shell type II quantum dot»

Dr. Oleh Kuzyk. «The deformation effects in isovalent doping of CdSe quantum dots with a multilayer shell for their biomedical applications»

Dr. Sergiy Konoplyuk «Electric transport properties of a Ni-Mn-In alloy subjected to external stimuli»

Dr. Roman Demediuk. «Quantum wells delta-doped to the center with background doping in barriers»

Dr. Bogdan Vasylyv «Study of the role of alloying elements Cr, Ni, Fe, and Al in the improvement of high-temperature (700–800 °C) fracture toughness of Ti-based composites»

Dr. Bogdan Vasylyv «Microstructure, high-temperature strength and fracture toughness of Ti–Si–X composites containing refractory phases»

Section " Nanoobjects microscopy "

Prof. Aleksandr Bagmut «Polymorphous crystallization of amorphous films of Ta₂O₅»

Dr. Tetiana Monastyrsk «Magnetohydrodynamic treatment and optimization of alloying complex of Al–Si–Mg casting alloys»

Section "Nanoplasmonics and surface enhanced spectroscopy "

PhD Nazar Mazur. «SERS-application of Ag nanoparticles synthesized from bio-extracts»

Dr. Roman Lys «The role of dislocations in radiation-stimulated changes in the electrophysical and optical characteristics of silicon structures»

Dr. Nataliya Berezovska «Plasmonic nanocavity metasurfaces based on femtosecond laser-nanostructured patterns perspective for the enhanced optical response of organic and biological molecules»

09:00-16:00 Poster Session 27.08.2022

Section "Nanobiotechnology for health-care"

Student Orest Blashkiv. «Effect of gold nanocomposites and Quercetin treatment on male reproductive function»

Dr. Oksana Nadtocha. «Chitosan-based interpenetrating polymer network hydrogels»

PhD student Daria Yarynka. «Chip based plasmon-enhanced fluorescence sensor for highly-sensitive zearalenone analysis»

Prof. Ihor Stolyarchuk «Co-doped CdS quantum dots and their bionanocomplex with protein: interaction and bioimaging properties»

Prof. Ihor Stolyarchuk «Surface morphology and optical properties of ZnMeO (Me: Co, Ni) thin films prepared by RF – sputtering»

Stanislav Ponomarenko «Drug delivery with pH-sensitive star-like Dextran-Graft Polyacrylamide copolymer»

Dr. Serhii Radio « Prediction of Substitution Limits and Thermodynamic Stability for Y_{1-x}Ln_xF₃ (Ln = Sm–Lu) Nanosized Materials»

Dr. Solomiya Paryzhak «Biocompatibility of γ-Fe₂O₃ nanoparticles with blood cells»

Dr. Mykhaylo Losytskyy. «Two kinds of luminescence centers in low-temperature phosphorescence spectra of IPNV RNA»

Prof. Ganna Shestopalova "Hydrogen bonds and molecular recognition"

Dr. Svitlana Smolyak «Yttrium and lanthanum doped bioglass»

Section "Nanocomposites and nanomaterials"

PhD student Maria Moklyak «Structurally dependent electroconductivity properties of ultrafine composites α-FeOOH/α-Fe₂O₃»

Aksimentyeva O.I. «Polymer-Magnet Nanosystems»

Ptashnyk V. «Influence of cavitation and non-cavitation ultrasonic treatment on the structure of nanoporous carbon materials»

Dr. Sergii Guzii «Reduction of combustibility of the polyurethane matrix of microwave-absorbing composite materials»

Prof. Igor Olenych «Composites based on silicon and carbon nanostructures for ionizing radiation sensing»

Prof. Igor Olenych «Electrical and photoelectric properties of hybrid structures based on reduced graphene oxide and doped porous silicon»

Prof. Igor Olenych «Humidity sensor element based on oxidized porous silicon – reduced graphene oxide hybrid structures»

Dr. Ludmila Vovchenko «Optimization of multilayered electromagnetic shields using mesh adaptive direct search»

PhD student Roman Pedan «Diffusion and diffusion-driven local ordering in Co-Pt thin films»

Dr. Sergii Burylov «Magneto-orientational effects in ferronematics with conically degenerated anchoring at particles surfaces»

Dr. Rostyslav Bovhyra. «Ab initio study of the effect of metal doping on electronic properties of (ZnO) $_n$ ($n = 96, 120$) nanoclusters»

PhD student Serhii Antonin «Conductivity of nanocomposite SiO $_x$ Ny and SiO $_x$ NyAlz films»

Dr. Liudmila Filevska «Formation of a conducting phase in Porous Glasses»

Dr. Tetiana Plutenko. «A novel method for synthesis and characterization of Ni–Zn ferrite nanoparticles»

Prof. Liliya Frolova «Synthesis and study of diatomite/alginate/Fe $_3$ O $_4$ composite polymer material»

Prof. Eduard Lysenkov «Structure and properties of antimicrobial nanocomposite materials filled with silver nanoparticles»

Dr. Volodymyr Sydorchuk «Nano-dispersed Zn-Al double hydroxide and oxides for photocatalytic application»

Student Anna Gusak. «Nanostructured adsorbents for arsenic compounds removal»

Student Anna Lozova «The effect of interfaces number on solid state reactions in Ni-Ti thin films »

Prof. Halyna Klym «Analysis of evolution of free volumes in the BaGa $_2$ O $_4$ ceramics doped with Eu $^{3+}$ ions»

Prof. Halyna Klym «Multicomponent positron-positronium trapping models to study of internal nanovoids in ceramic solids»

Prof. Halyna Klym «Peculiarities of preparing and characterization of thick-film nanostructures based on ceramics for sensors applications»

Prof. Halyna Klym «PEDOT:PSS polymer matrices reinforced with carbon nanotubes: electrical and structural properties»

Prof. Halyna Klym «Influence of frequency and temperature on electrical resistivity of polymer-based nanocomposites»

Prof. Nina Ostapenko «Manifestation of optical vibrations in thermoluminescence of polysilane films and nanocomposites»

PhD student Dmytro Chemerys «Low temperature magnetotransport properties in GaAs whiskers»

Dr. Yuriy Kostiv «Ageing phenomena in temperature-sensitive thick-film nanostructures»

Dr. Yuriy Kostiv «Structural properties and free volumes in the Y-doped BaTiO $_3$ ceramics»

PhD student Oleh Ivanichok «Electrochemical properties of carbon material obtained from walnuts»

Prof. Serhii Revo. «Study of aluminium containing multiwall carbon nanotubes»

Prof. Yulian Vysochanskii. «Pseudospin modelling and mean field analysis of ferrielectricity in CuInP $_2$ S $_6$ van der Waals crystals»

PhD student Dmytro Solonets «Synthesis of thermally stable ultrasmall metallic Ni nanoparticles confined in microporous carbon»

PhD student Vitalii Zadorozhnii. «Ab initio study of the piezoelectric effects of the 2D semiconductors of IV group monochalcogenides (GeSe, GeS)»

Dr. Victor Zadorozhnii « Liquid crystal control of the electromagnetic wave propagation through metal-multilayer dielectric structure»

Dr. Nikita Liedienov «Structural properties of iron-formate under high pressure»



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Dr. Andriy Yakymovych «Hybrid solder joints: the effect of nano-sized Ni and ceramic»

Dr. Andriy Yakymovych «Insights into synthesis of nanosized Ni and Fe particles by chemical reduction method»

Dr. Viktoriya Podhurskaya «Corrosion resistance of nanostructured titanium coatings deposited by cathodic arc evaporation»

Dr. Viktoriya Podhurskaya «Investigation of long-term oxidation resistance of titanium alloy with a Ti,Me-Al-C nanocomposite coating»

Dr. Viktoriya Podhurskaya «Effects of the substrate bias voltage and gas pressure on electrical conductivity and microhardness of the nanostructured TiON coatings»

Dr. Viktoriya Podhurskaya «Study of the effects of the microstructure, contact stress and temperature on the area specific resistance of fuel cell materials»

Prof. Andrii Kashuba «Ab initio studies of the gas adsorption on the surface CdSe_{1-x}S_x ultra-thin films»

Dr. Tetiana Bulavinets «Optical Properties of Au-CuS Core-Shell Nanoparticles»

Dr. Cecylia Wardak «Copper-sensitive ion-selective electrode with solid contact based on copper oxide nanoparticles- multiwalled carbon nanotubes-nanopomposite»

PhD student Vladyslav Popruzhko, «Characteristic mechanical spectroscopy of nanocomposites of multiwalled carbon nanotubes and polyamide, polyvinyl chloride, polyethylene, expanded polystyrene»

Dr. Anatoliy Onanko, «Mechanical Spectroscopy of Nanocomposites of Multiwalled Carbon Nanotubes and Polyamide, Polyethylene, Polyvinyl chloride, Porous Polystyrene»

Dr. Andriy Yakymovych «Insights into synthesis of nanosized Ni and Fe particles by chemical reduction method»

Dr. Andriy Yakymovych «Metal deposited nanoparticles as “bridge materials” for lead-free solder nanocomposites»

Prof. Yulia Bondar «Nanocomposite adsorbent based on natural zeolite for selective removal of ¹³⁷Cs from high salt solutions»

PhD student Dmytro Komarenko «Optical characterization of Al₂O₃ based eutectics: effect of plates thickness»

Prof. Irina Savchenko «Comparative characteristics of sorption properties of silica gels with in situ immobilized azopolymers for Cu (II), Pb (II) Cd (II) and Fe (III) ions»

Prof. Irina Savchenko «Sorption properties of porous aluminosilicate minerals of Ukraine, in situ modified by poly [5- (p-nitrophenylazo) -8-methacryloxyquinoline] of toxic metal ions»

PhD student Mariia Samsonenko «Visible light photocatalytic properties of nano-sized tin dioxide doped with iron»

Dr. Maksym Barabashko "Thermally reduced graphene oxide (TRGO): the study of thermal defunctionalization "

Dr. Maksym Barabashko "Influence of the additives of multi-walled carbon nanotubes to the porosity of hydroxyapatite composite"

Prof. Serhii Nedilko "Influence of carbon nanotubes content on the thermal-structural properties of high-density polyethylene"

PhD student Dmytro Komarenko, Andriy Ronkovych «Nonlinear optical response of ZnO-PMMA nanocomposites under picosecond laser excitation»

Dr. Liena Vergun «Structure of nanoclusters and density of solutions of rigid-chain polymers»

Dr. Tetiana Verbytska. «Formation of ordered L10 FePt phase in Pt/Ag(Au)/Fe and Fe/Ag(Au)/Pt trilayers»

Dr. Tetiana Tkachenko «Influence of ratio of silicon complex and hydrolyser agent on silicon dioxide characteristics»

Dr. Mariia-Olena Danyliak "The anticorrosion performances of the zeolite/Zn(H₂PO₄)₂ pigment for aluminium alloy"

Dr. Maksym Fizer «5-Alkyl-1,2,4-triazole-3-thiones as stabilizers in the synthesis of silver nanoparticles»



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Prof. Orest Malyk «Defect structure and kinetic properties of $\text{CdSe}_x\text{Te}_{1-x}$ ($x=0.1$) solid solution: *ab initio* calculation»

PhD student Nadiya Davydiuk. «Proton conductive membranes for DMFC»

Dr. Andrii Gilchuk «Ti-Ni based nanocomposites produced by spark erosion method»

Dr. Tatyana Kiose «Nanocatalyst for carbon monoxide oxidation based on palladium(II), copper(II) salts and carbon fiber material»

PhD Anton Taran «Color change of PVD zirconium-based oxycarbonitride coatings obtained at various deposition parameters»

Lisnyak V.V «Silicon nanoparticles preparation and the formation of carbon-silicon hybrid nanoparticles for sensor applications»

History of NANO Conference



Group photo of participants of the 1st International Summer School for young scientists "NANOTECHNOLOGY: from fundamental research to innovations" (Bukovel 2012)



Interview with Prof. Dr. Thomas A. Klar, Director of the Institute of Applied Physics, Johannes Kepler University of Linz, Austria



At the lecture during the 1st International Summer School



Summer school participants on the background of the monument, which is a symbol of the geographical center of Europe (Rakhiv district)



Closing ceremony of the 1st International Summer School for young scientists "NANOTECHNOLOGY: from fundamental research to innovations"



Group photo of the 2nd International Summer School participants (Bukovel 2013)



*Summer School participant PhD.
Vorokhta M. (Czech Republic)
tries to play trembita*



Plenary Session



The organizing committee working hard



PhD. Lyashchova A.G. (Ukraine)



*Group photo of 1st International NANO–2013 Conference participants
(Bukovel 2013)*



*Opening speech by Dr. Habil.
Emmanuelle Lacaze (France)*



*Online presentation of the Springer book
with selected proceedings of the 1st
International Summer School*



*Head of the Local organizing committee
Dr. O. Fesenko*



Excursion to the city of Lviv



Group photo of 3rd International Summer School participants (Yaremche 2014)



Discussion with speaker



Hiking the path of Dovbush, Carpathians



Director of Institute of Physics of NAS of Ukraine Prof. Leonid Yatsenko awards prizes to the winners of competition



Interview with Prof. Leonid Chernozatonskiy from Prokhorov Institute of general physics (Russia)



*Group photo of the 3rd International NANO-2014 Conference participants
(Lviv, 2014)*



*Choir of Lviv National
Ivan Franko University performs the
national anthem of Ukraine*



*Opening speech of Rector of Ivan Franko
National University of Lviv,
Prof. Volodymyr Melnyk*



*Report of Prof. Francesco Bonaccorso,
leading specialist in graphene
investigations*



Scientific discussion with the audience



*Group photo of the 3rd International NANO-2015 Conference participants
(Lviv 2015)*



Scientific discussion with the audience



*Report of Prof. Dr. Thomas A. Klar,
Director of the Institute of Applied
Physics, Johannes Kepler
University of Linz, Austria*



*Ivan Franko National University of Lviv
violin ensemble performs*



*"Cheremosh" folk song and dance
ensemble during the Conference opening
ceremony*



*Group photo of the 4th International NANO-2016 Conference participants
(Lviv 2016)*



Scientific discussion with the audience



*Report of Prof. Dr S. S. Choi
(South Korea)*



Registration of participants



*Excursion to the Museum of Folk Culture
and Rural Life in Lviv*



Group photo of 5th International Summer School participants (Bukovel 2017)



Scientific reporting



Report of Prof. Dr Stefano Bellucci



Tourist complex Mygovo



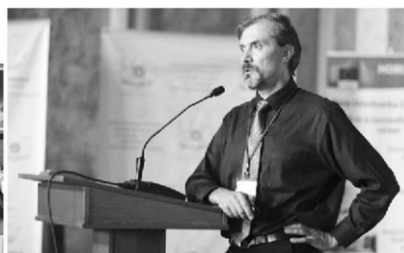
Don't forget for dinner barbeque



*Group photo of the 5th International NANO-2017 Conference participants
(Chernivtsi 2017)*



Report of heads of conference



*Report of Prof. Dr. Vadym Mochalin
(USA)*



Registration of participants



Symphonic orchestra of Chernivtsi



*Group photo of the 6th International NANO-2018 Conference participants
(Kyiv 2018)*



Registration of participants



*Report of Dr. Hanna Morozovska
(Ukraine)*



Discussion during the poster session



*Organizing committee
of NANO-2018*



Presentation of Philippe Mariani, CEO of Sophia Antipolis Foundation



Interview for a media



Experts in innovative ecosystem



Discussion with the audience



Experts commit to choose the best startups



Group of the 7th International NANO-2019 Conference participants (Kyiv 2019)



Registration of the participants



*Report of Prof. Andzey Suchocki
(Austria)*



*Mr. Jastin Taruska, member of the
Innovation start-ups competition jury*



*Awarding the winners of the Innovation
start-up competition*



A collective photo of the participants of the NANO-2020 conference on the stairs of the Lviv House of Scientists



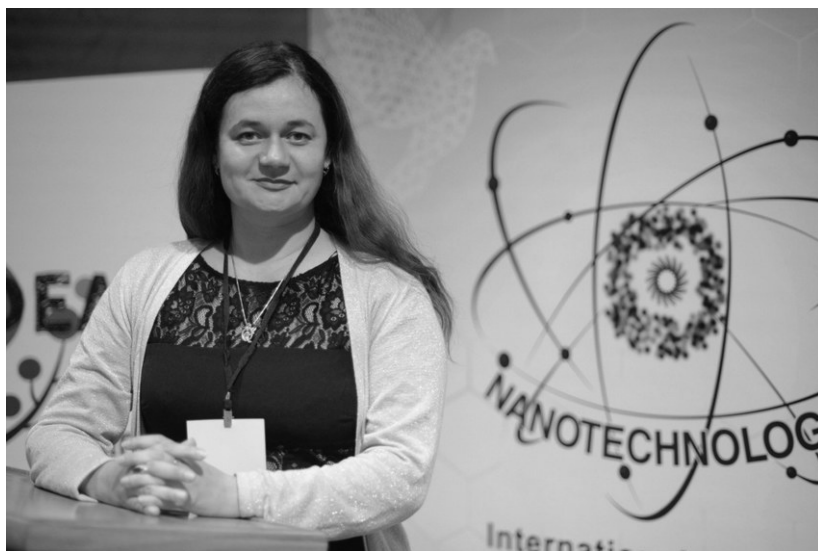
Online speech by Nobel laureate Roald Goffman Prof. Roald Goffman



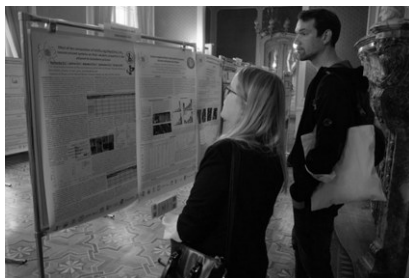
Online and offline speech by Prof. Tymish Y. Ohulchanskyy and Dr. Sergey Kolotilov respectively



*A collective photo of the participants of the NANO-2021 conference
on the stairs of the Lviv House of Scientists*



Head and main organizer of the NANO conference Olena Fesenko



Our publications

Abstracts Book of the 1st International Summer School (2012)

Abstracts Book of the 1st International Summer School and International Conference NANO 2013

Abstracts Book of the 2nd International Summer School and International Conference NANO 2014

Abstract Book of the 3rd International Conference NANO-2015

Abstract Book of the 4th International Conference NANO-2016

Abstract Book of the 5th International Conference NANO-2017

Abstract Book of the 6th International Conference NANO-2018

Abstract Book of the 7th International Conference NANO-2019

Abstract Book of the 8th International Conference NANO-2020

Abstract Book of the 9th International Conference NANO-2021



O. Fesenko, L.Yatsenko and M. Brodin et al. (eds.), Nanomaterials, Imaging tech- niques, Surface Studies, and Applications, Springer Proceedings in Physics 146, DOI: 10.1007/978-1-4614-7675-7, ©Springer Science+Business, Media, New York 2013

O. Fesenko, L. Yatsenko (eds.), Nanocomposites, Nanophotonics, Nanobiotechnology, and Applications, Springer Proceedings in Physics 156, DOI: 10.1007/978-3-319- 0661-0, ©Springer International Publishing, Switzerland 2014

O. Fesenko, L. Yatsenko, Nanoplasmonics, Nano-Optics, Nanocomposites, and Sur- face Studies 167, DOI: 10.1007/978-3-319-18543-9, ©Springer International Publish- ing, Switzerland 2015

O. Fesenko, L. Yatsenko, Nanophysics, Nanophotonics, Surface Studies, and Appli- cations 183, DOI: 10.1007/978-3-319-30737-4, ©Springer International Publishing, Switzerland 2016

O. Fesenko, L. Yatsenko, Nanocomposites, Nanostructures, and Their Applications 221, DOI: 10.1007/978-3-030-17759-1, ©Springer International Publishing, Switzer- land 2019

O. Fesenko, L. Yatsenko, Nanophotonics, Nanooptics, Nanobiotechnology, and Their Applications 222, DOI: 10.1007/978-3-030-17755-3, ©Springer International Pub- lishing, Switzerland 2019

Participants of International Summer Schools and International NANO Conferences

- published their articles in Special Issue of Springer Open Journal “Nanoscale Re- search Letters” (in 2013, 2014 and 2015) dedicated to NANO Conferences. Impact Factor of Journal - 2.779.



In 2016-2018 it was also possible to publish an articles for participants of the NANO conference in Applied Nanoscience Journal, The European Physical Journal Plus (EPJ Plus) and Applied Sciences Journal (SN).

www.springer.com/materials/nanotechnology/journal/11671

Also, since 2017 year it was possible to publish the articles for participants of NANO Conference in the Molecular Crystals and Liquid Crystals Journal <https://www.tandfonline.com>

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