

VI International Conference "Nanotechnologies and Nanomaterials" NANO-2018

will be held on the 27 - 30 August 2018

at the Main building of Taras Shevchenko National University of
Kyiv, Volodymyrska street, 60, Kyiv, Ukraine



Dear participants of the NANO-2018 Conference!

We are sincerely glad to welcome You at the 6th International Conference "Nanotechnologies and Nanomaterials" NANO-2018 which will start on the 27-th of August in Kyiv, Ukraine. The first day of the Conference will consist of two major events:

- the 1-st part will be dedicated to the Plenary session of the Conference where you can listen to oral reports of Invited speakers.
- the 2-nd part will be dedicated to the International Forum "Innovation- 2018" , which is an event for the meeting of innovators and inventors, manufacturers of leading innovative technologies, founders of startup and spin-off companies with representatives of enterprises - potential partners or consumers interested in innovative technologies, accelerators of investment projects, representatives of Investment Institutions and Ministries, responsible for innovation policy in Ukraine, experts in the economic field and consultants in the field of intellectual property protection.

The Goal of the "Innovation-2018" event is to support the development of an innovation strategy in Ukraine, to highlight new Ukrainian innovations, increasing science and SMEs cooperation, to encourage its to develop and expand their own innovation potential and international cooperation.

If for some reasons You have no opportunity to come and join us, You will be able to watch video broadcast via the following link :

- **Conference NANO-2018** (start on the 27/08/18 at 9:30 a.m.)
<https://youtu.be/lsFG3KZURJI>
- **Innovation-2018 event** (start on the 27/08/18 at 2 p.m.)
<https://youtu.be/SDG46cEOws8>

Also at the first day of the Conference 27/08/2018 will be a Concert for participants of NANO-2018 at 6.30 p.m. and Conference Dinner at 8 p.m. The Excursion will be at the last day of Conference on the 30/08/18. We will hold photo video of all days of Conference. All materials will be posted on the NANO-2018 Conference website as we do each year.

For the Oral speakers: please take with you your presentation on the USB flash drive in *.ppt format. Posters please make in vertical A1 format.

See you at our NANO-2018 Conference!

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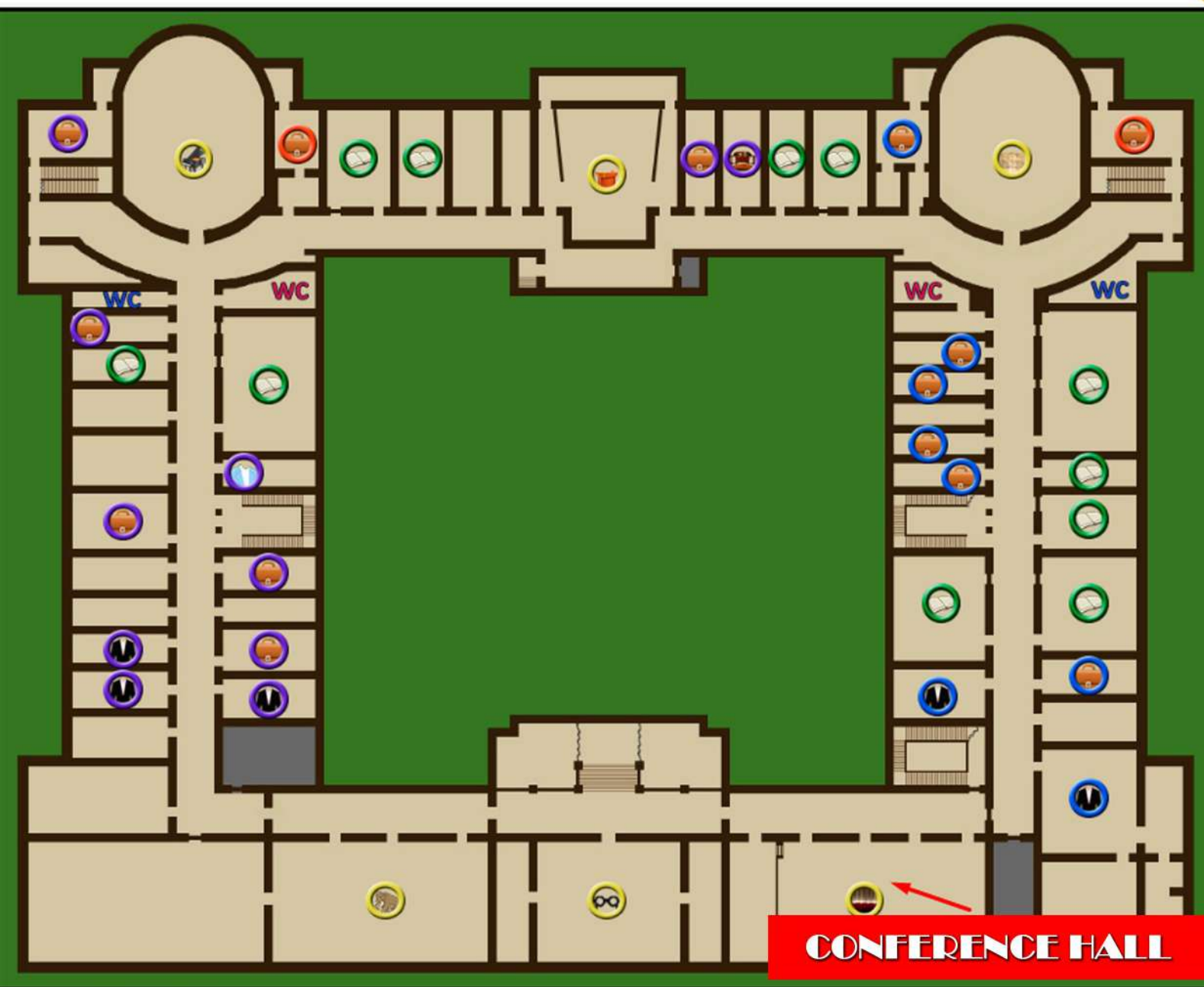
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6th International Conference "Nanotechnologies and Nanomaterials" NANO-2018 will be held on the 27 - 30 August 2018 in Taras Shevchenko National University of Kyiv Kyiv, Volodymyrska street, 60 Conference program Monday, 27.08.2018	
9:00-14:00	Registration
9:00-9:03	Welcome greetings from Acad. Maksym Strikha , Deputy Minister of Education and Science of Ukraine
9:03-9:06	Welcome greetings from Acad. Leonid Guberskiy , Rector of Kyiv National University
9:06-9:09	Welcome greetings from Acad. Anatoly Zagorodny , Vice-President of NAS of Ukraine
9:09-9:12	The opening speech from Acad. Leonid Yatsenko , Academician of NAS of Ukraine
9:12-9:15	Introduction speech from Dr. Olena Fesenko , Head of organizing Committee of NANO-2018
	Plenary Section (Acad. Leonid Yatsenko)
9:30-10:00	Prof. Tymish Y. Ohulchanskyy , Dye-sensitized rare-earth doped nanoparticles as up- and downconversion photoluminescence bioimaging agents (<i>China</i>)
10:00-10:30	Prof. Elmar Petrov , Superexchange nonresonant tunneling mediated by a molecular nanowire (<i>Ukraine</i>)
10:30-11:00	Prof. Vidmantas Gulbinas , Direct tracking of charge carrier drift in semiconducting single-wall carbon nanotube layers (<i>Lithuania</i>)
11:00-11:30	Dr. Sergii Yakunin , Optical amplification and lasing from compact films of perovskite nanocrystals (<i>Switzerland</i>)
11:30-12:00	Prof. Oleg Dimitriev , Delayed energy transfer between J-aggregates of thiamonomethinecyanine dyes (<i>Ukraine</i>)
12:00-12:30	Prof. Zbigniew Leśnikowski , Applications of boron clusters in nanoconstruction - present and future (<i>Poland</i>)
12:30-13:00	Dr. Ganna Morozovska , Control of polarization hysteresis temperature behavior by surface screening in thin ferroelectric films(<i>Ukraine</i>)
13:00-13:30	Prof. Amit Srivastava , Efficient and Stable Band gap engineering of BiFeO ₃ for hydrogen production through photoelectrochemical splitting of water (<i>India</i>)
13:30-14:00	Coffee break and Conference photo
14:00-15:00	Development of Innovation strategy of Ukraine and in the world (Innovation-2018)
14:00 - 14:10	Opening speech of Dr. Olena Fesenko , Head of organizing Committee
14:10-15:15	Dr.Chayka D.Yu. , General Director of Innovation and Technology Transfer Directorate of Ministry of Education and Science of Ukraine(<i>Ukraine</i>)
	Mr.Ahromkin A. , Head of the Department of scientific and innovative activity, Ministry of Economic Development and Trade of Ukraine(<i>Ukraine</i>)
	Mr.Skrypnyk O.O. , Deputy Chairman of the Committee on Science and Education in Verkhovna Rada of Ukraine (<i>Ukraine</i>)
	Corresponding Member Alla Yemets , Science Committee(<i>Ukraine</i>)
	Acad.Yatskiv Yaroslav S. Academician of NAS of Ukraine(<i>Ukraine</i>)
	Ms.Ivona Jerković , Croatian Agency for SMEs, Innovations and Investments(<i>Croatia</i>)
	Ms.Laima Kaušpadienė , CEO Sunrise Valley Science and Technology Park(<i>Lithuania</i>)
15:15-15:30	Coffee break
15:30 - 17:00	The innovative ecosystem: international practice and Ukrainian experience
	Ms.Soledad Díaz Campos - General Director Association of science and technology parks of Spain(<i>Spain</i>)
	Dr.Volodumur Gnat , Science Park "Kyivska Polytechnika"(<i>Ukraine</i>)
	Mr.Maxim Bakhmetov , UNIT.City
	Dr.Tatyana Kolyaka , Marketing and Administration Manager Ideon Science Park in Lund(<i>Sweden</i>)
	Mr.Philippe Mariani , CEO Sophia Antipolis Foundation(<i>France</i>)
	Mr.Paulius Nezabitauskas , Director for Innovation and Entrepreneurship Development Kaunas Science and Technology Park(<i>Lithuania</i>)
17:00-18:30	Presentation of the start-ups, choice of 2 best innovators
	Mr.Oleksiy Levenko , HeartIn
	Mr.Sergiy Kleymenov , Magnetic wooden toys
	Mr.Roman Sakun , Hushme
	Mr.Sergiy Kovalchuk , Bioactive hydrogen antioxi date water from any drinking water
	Mr.Sergiy Kurta , Chewing gum based on natural honey
	Mr.Denis Krasnikov , Ausweis
	Mr.Aleksander Wojtowich , Automated Irrigation Control System
	Mr.Volodymyr Statsenko , Heating walls
18:30-19:00	Concert
20:00-22:30	Conference dinner
9:00-20:00	Poster Session

Tuesday, 28.08.2018(Conference hall)	
Section “Nanocomposites and nanomaterials”(Dr. Przemyslaw Raczynski)	
09:00-09:15	PhD student Adrian Augustyniak , Microbiological evaluation of metal oxide nanoparticles (Poland)
09:15-09:30	Dr. Engin Ateser , A Computational Study on the Some Physical Properties of C ₄₂ H ₆ SmO _n (m+n=6) Molecules (Turkey)
09:30-09:45	Prof. Yuliya Dzyazko , Predefined formation of nanodimensional particles of inorganic ion-exchangers in porous polymers (Ukraine)
09:45-10:00	Prof. Vladimir Krivoruchko , Equal-spin Andreev reflection and long-range coherent transport in Josephson high-temperature superconductor/half-metallic ferromagnet nanocomposites (Ukraine)
10:00-10:15	Prof. Alexander Kukhta , Polymer-graphene ternary luminescent composites (Belarus)
10:15-10:30	Prof. Lyudmyla Karabanova , POSS-containing nanocomposites based on polyurethane and poly(hydroxypropyl methacrylate) semi-interpenetrating polymer networks (Ukraine)
10:30-10:45	Andraz Resetic , Thermomechanical functionalization of conventional rubber (Slovenia)
10:45-11:00	Dr. Pawel Sikora , The effects of MWCNT-SiO ₂ core-shell structures on the mechanical and microstructural properties of cement pastes exposed to elevated temperature (Poland)
11:00-11:15	PhD student Oleg Lozitsky , Microwave shielding of epoxy composite with mixed filler carbon nanotubes/BaTiO ₃ (Ukraine)
11:15-11:30	Coffee break
Section “Nanostructured surfaces” (Dr. Alexander Sorokin)	
11:30-11:45	PhD student Lukienko Irina , Optical spectroscopy of Co-based layered double hydroxides (Ukraine)
11:45-12:00	Dr. Sergii Golovynskyi , Deep Level Influence on Photoconductivity of Metamorphic InAs/InGaAs Quantum Dot Structures (China)
12:00-12:15	Dr. Yuriy Khalyavka , The waveguide structures based on CdTe/CdS quantum dots– polymer layer-by-layer films on optically active Ti/TiO ₂ substrates (Ukraine)
12:15-12:30	Prof. Igor Melnyk , Using of High Voltage Glow Discharge Electron Guns For Obtaining Of Ceramic Nanostructured Thin Films. (Ukraine)
12:30-12:45	Dr. Evgeniya Kovalska , Novel technique of multilayer graphene nanostructuring for biosensing and optoelectronic appliances (United Kingdom)
12:45-13:00	Prof. Murat Alanyalioglu , Flexible Graphene Papers Doped with Dye Molecules for Electrochemical Sensing of Nitrite (Turkey)
13:00-13:15	Dr. Vasyl Kharchenko , Pattern formation and islands growth control in plasma-condensate system (Ukraine)
13:15-14:15	Break and Excursion to Taras Shevchenko National University of Kyiv
14:15-14:30	Prof. Anatoliy Evtukh , Optical and Electrical Properties of Nanowires Based Solar Cell with Radial p-n Junction (Ukraine)
14:30-14:45	Dr. Andrew Stetsko , The structure of reinforced layers of the complex method (Ukraine)
14:45-15:00	Prof. Vyacheslav Gorshkov , Monte-Carlo modeling of crystal growth of periodic shells on one-dimensional substrates (Ukraine)
15:00-15:15	Dr. Przemyslaw Raczynski , Properties of ultra-thin lipid layers surrounding boron-nitride nanotube (Poland)
15:15-15:30	PHD student Viktor Borysiuk , Theoretical prediction of adsorption characteristics of Cr(VI) molecular anions on the surface of carbon nanostructures (Ukraine)
15:30-15:45	Coffee Break
Section “Nanoplasmonics, nanoobjects microscopy and surface enhanced spectroscopy” (Dr. Olena Fesenko)	
15:45-16:00	Dr Stephen Hodge , Large Scale Production and Applications of Graphene (Great Britain)
16:00-16:15	Prof. Aleksandr Bagmut , Kinetics of layer, island and dendrite polymorphous crystallizations of amorphous films, deposited by laser ablation (Ukraine)
16:15-16:30	Dr. Alexander Sorokin , Effect of exciton-plasmon interaction on the exciton self-trapping in molecular aggregates (Ukraine)
16:30-16:45	Dr. Olena Fesenko , Au nanostars for SEIRA and SERS spectroscopy (Ukraine)
16:45-17:00	PhD student Nuri Burak Kiremitler , Fabrication and Versatile Use of Spatially Defined Electrospun Nanofibers for Nanopatterning of Functional Materials for Nanolithographic and Nanoplasmonic Applications (Turkey)
17:00-17:15	Dr. Gennadii Beketov , Optical configuration for integrated surface plasmon-coupled directional enhanced Raman scattering spectroscopy and SPR sensing (Ukraine)
9:00-20:00	Poster Session

Tuesday, 28.08.2018(Auditory №329)	
Section “Nanooptics and photonics” (Prof. Michal Wojcik)	
09:00-09:15	Prof. Dmytro Fil , Anomalous nonlinear electromagnetic response of few-layer graphenes (<i>Ukraine</i>)
09:15-09:30	Prof. Sergey Pokutnyi , Exciton and biexciton states in nanosystems from quantum dots (<i>Ukraine</i>)
09:30-09:45	Prof. Yaroslav Shopa , Dynamic light scattering at the aggregation processes of spherical nanoparticles in millimeter- and micrometer-sized droplets (<i>Poland</i>)
09:45-10:00	PhD student Jan Zareba , Luminescence properties and energy transfer processes in Tb ³⁺ and Eu ³⁺ doped nanoscale phosphonates (<i>Poland</i>)
10:00-10:15	PhD student Anastasiia Solomenko , Diode and photonic properties of lateral heterostructures based on functionalized graphene (<i>Ukraine</i>)
10:15-10:30	PhD student Magdalena Waszkielewicz , The complex studies on gold- capped nanoclusters (<i>Poland</i>)
10:30-10:45	PhD student Marta Choluj , The influence of the topology of confining environment on the molecular electric properties (<i>Poland</i>)
10:45-11:00	PhD student Volodymyr Hryn , Development of the waveguide photonic crystal structures formed by a distribution of nanoparticles in polymer matrix (<i>Ukraine</i>)
11:00-11:15	PhD student Dmytro Vasylenko , An effective method of nano-polishing of quartz substrates (<i>Ukraine</i>)
11:15-11:30	Coffee break
Section “Nanocomposites and nanomaterials” (Prof. Yaroslav Shopa)	
11:30-11:45	Dr. Antonina Redkina , Effect of the increased vanadium content on the structure and activity of the oxide V-Zr-Si catalyst during the propane dehydrogenation reaction (<i>Ukraine</i>)
11:45-12:00	Yulia Shlapa , Synthesis of CeO ₂ Nanoparticles and Study of Their Biocompatibility and Bioactivity (<i>Ukraine</i>)
12:00-12:15	Dr. Oksana Chukova , Structure, morphology and spectroscopy studies of La _{1-x} Sm _x VO ₄ nanoparticles synthesized by two various methods (<i>Ukraine</i>)
12:15-12:30	Prof. Michal Wojcik , Dynamic photo-switchable soft nanomaterials made of platinum group metals nanoparticles and small plasmonic nanoparticles modified with promesogenic ligands (<i>Poland</i>)
12:30-12:45	Dr. Volodymyr Khomenko , Lithium Ion Batteries and Supercapacitors with high energy density using electrodes from Silicon/ Graphene Nanocomposites (<i>Ukraine</i>)
12:45-13:00	Dr. Ostap Zgalat-Lozynskyy , Formation of structure and properties of wearproof nanocomposites based on silicon nitride applying technologies of electric sintering (<i>Ukraine</i>)
13:00-13:15	Dr. Mehmet Bahat , A Computational Study on The Electronic and Nonlinear Optical Properties of C ₁₁₈ H ₂₂ and Its hBN-Derivative Structures (<i>Turkey</i>)
13:15-14:15	Break and Excursion to Taras Shevchenko National University of Kyiv
14:15-14:30	Prof. Gertruda Klimusheva , New nonlinear optical nanocomposites based on ionic liquid crystals of metal alkanoates (<i>Ukraine</i>)
14:30-14:45	PhD student. Yulia Bardadym , The influence of physical fields on the physical properties of epoxy composites (<i>Ukraine</i>)
14:45-15:00	Prof. Oleksandr Bochechka , High quality cutting tools made from nanocomposite “diamond - tungsten carbide” (<i>Ukraine</i>)
15:00-15:15	Dr. Galyna Strilchuk , Calculation of optical properties of coated nanoparticles on the surface (<i>Ukraine</i>)
15:15-15:30	PhD student Oleksandr Chumak , Linking Between Magnetoelastic and Damping Properties of Co Based Heusler Alloys Thin Films (<i>Ukraine</i>)
15:30-15:45	Coffee break
Section “Nanoscale physics” (Prof. Vladimir Krivoruchko)	
15:45-16:00	PhD student Khrystyna Levchenko , Patterned ultra-thin layers of (Ga,Mn)As & (Ga,Mn)(Bi,As) for spintronic memory application (<i>Poland</i>)
16:00-16:15	Dr. Yuriy Mishchenko , Deformed Bose gas models and a kind of duality (<i>Ukraine</i>)
16:15-16:30	Dr. Igor Goliney , discrete grid monte carlo modelling of spatial structures formed by unstable particles in nonequilibrium conditions (<i>Ukraine</i>)
16:30-16:45	Anton Lukianchenko , Spin-orbit interaction in InSb core-shell wires (<i>Ukraine</i>)
16:45-17:00	PhD student Petro Artemchuk , Different regimes of spin-torque microwave detector operation (<i>Ukraine</i>)
17:00-17:15	Dr. Oleksandr Doroshkevych , Effect of chemo-electronic energy conversion in nanopowder ZrO ₂ - based systems (<i>Russia</i>)
9:00-20:00	Poster Session

Section “Nanochemistry and nanobiotechnology, and Nanoobjects”(Prof. Andrii Netreba)	
09:00-09:15	Dr. Ruslan Mariychuk , Green synthesis of metal nanoparticles using plant extracts (<i>Slovakia</i>)
09:15-09:30	Prof. Eugene Glushko , New perspectives to improve accuracy of the molar gas constant using pneumatic photonic structures (<i>Ukraine</i>)
09:30-09:45	Dr. Halyna Kuznietsova , Effects of water-soluble C ₆₀ fullerene nanoparticles on rats experienced acetaminophen-induced liver injury (<i>Ukraine</i>)
09:45-10:00	Dr. Nadezhda Zholobak , Features of changes in key indicators of the viability of green algae in the presence of cerium salt or nanoceria (<i>Ukraine</i>)
10:00-10:15	Dr. Larisa Kunitskaya , Double hydrophilic block copolymers for drug delivery (<i>Ukraine</i>)
10:15-10:30	Dr. Valeriy Orel , Magnetic resonance nanotheranostics for malignant tumors(<i>Ukraine</i>)
10:30-10:45	Szymon Starzonek , Phase transitions and glassy dynamics in pressurized mesogen-based nanocomposites (<i>Poland</i>)
10:45-11:00	Prof. Hüseyin Deveci , Utilization of char obtained from olive pomace co-pyrolisis with crude oil as a filler in epoxy composite materials (<i>Turkey</i>)
11:00-11:15	Coffee break
Section “Physico-Chemical nanomaterials science” (Prof. Eugene Glushko)	
11:15-11:30	Prof. Ekrem Kalkan , Comparison of Ultrasonic Assisted Heterogeneous Fenton Process of Azo Dye Removal of Different Amounts of Iron-Containing Geo-material (<i>Turkey</i>)
11:30-11:45	Dr. Ozkan Acisli , Removal of anionic dye from aqueous solutions using Fe ₃ O ₄ / OMt magnetic nanoparticles (<i>Turkey</i>)
11:45-12:00	Dr. Alla Lebedinskaya , Sources of occurrence and models of structural ordering in PMN at low temperatures (<i>Russia</i>)
12:00-12:15	Dr. Andrii Panko , Nanostuctural factors of microseismic phenomenon for iron-aluminum silicate rocks of Earth crust (<i>Ukraine</i>)
12:15-12:30	PhD student Oleksii Liubchenko ,Modification of the strain state and analysis of crystalline changes in the ion implanted AlN/GaN superlattices(<i>Ukraine</i>)
12:30-12:45	PhD student Yevhenii Havryliuk ,The phonon confinement effect in Cu ₂ ZnSnS ₄ nanocrystals and the Raman characterization of possible secondary phases(<i>Ukraine</i>)
12:45-13:00	PhD student Alexander Abakumov ,Multilayer N-doped Reduced Graphene Oxide as a Selective Acetylene Hydrogenation Catalyst(<i>Ukraine</i>)
13:00-14:00	Break
Section “Nanobiotechnology for health-care” (Dr. Andrii Panko)	
14:00-14:15	Dr. Gamze Guney Eskiler , A novel Zn(II) complex loaded solid lipid nanoparticles for breast cancer treatment: Synthesis, characterization and cytotoxic studies (<i>Turkey</i>)
14:15-14:30	PhD student Natalia Rusinchuk , The Field Interaction Explains Features of Antiviral Action of Nanoparticles (<i>Ukraine</i>)
14:30-14:45	Prof. Andrii Netreba , Restoration of the protons spatial distribution for different types ratios of the biological tissues (<i>Ukraine</i>)
14:45-15:00	Dr. Grishchuk Sergiy , Novel functional nanocapsules for skin care products (<i>Germany</i>)
15:00-15:15	Prof. Victorio Estrela-Llopis ,Metal nanoprisms for theranostics(<i>Ukraine</i>)
Section “Nanoscale physics” (Prof. Oleksiy Nazarov)	
15:15-15:30	Dr. Oleg A. Mishchuk , Some microscopical insight on the moving-line phenomenon for non-stable-interface Auger spectra (<i>Ukraine</i>)
15:30-15:45	Dr. Elena Zhitlukhina , Novel nanoscale superconducting switch (<i>Ukraine</i>)
15:45-16:00	Dr. Taras Radchenko , Band-gap engineering of (im)perfect graphene: magnetic field and tensile vs. shear strains (<i>Ukraine</i>)
16:00-16:15	Prof. Igor Shevchenko , Influence of solar energy on chemical reactivity of water clusters (<i>Ukraine</i>)
16:15-16:30	Coffee break
16:30-16:45	Prof. Galyna Rudko , ODMR and luminescence studies of UV-induced transformations in CdS/PVA nanocomposites (<i>Ukraine</i>)
16:45-17:00	Prof. Oleksandr Kucherov , Nano Engine in the size of 0.15 nanometers for the hurricanes, comets, astrophysical masers and cars (<i>Ukraine</i>)
17:00-17:15	Prof. Alexander Kasatkin , Electrodynamics of nanostructured type-II superconductors (<i>Ukraine</i>)
17:15-17:30	Prof. Mikhail Belogolovskii , Charge and heat transport across a hybrid Y-branch nanodevice (<i>Ukraine</i>)
17:30-17:45	Dr. Victor Nikolaenko , Differential conductivity of surface electrons over superfluid helium in potential wells of charged profiled substrate (<i>Ukraine</i>)
9:00-20:00	Poster Session

Thursday, 30.08.2018	
Section “Nanocomposites and nanomaterials”(Prof. Natalya Kizilova)	
09:00-09:15	Dr. Volodymyr Sohatsky , Stress sensitivity of nanolayered magnetic sensors (<i>Ukraine</i>)
09:15-09:30	Prof. Karina Lamonova , Magnetic properties of polycrystalline Ce_2O_3 (<i>Ukraine</i>)
09:30-09:45	Dr. Kostiantyn Shportko , Urbach tails in the spectra of amorphous $(\text{GeTe})_x(\text{Sb}_2\text{Te}_3)_{1-x}$ alloys (<i>Ukraine</i>)
09:45-10:00	PhD student Andrey Leonov , Optical and sensor properties of manganese doped zinc sulfide quantum dots (<i>Russia</i>)
10:00-10:15	Dr. Ivan Saldan , Nanocomposites based on metal borohydrides for reversible hydrogen sorption (<i>Ukraine</i>)
10:15-10:30	PhD student Liubov Revutska , Structural properties of As-Se-S and As-S-Sb chalcogenide glasses (<i>Ukraine</i>)
10:30-10:45	Prof. Oleksiy Nazarov , Graphitic carbon film formation from nanoporous carbon: Structural, electrical and sensor properties (<i>Ukraine</i>)
10:45-11:00	PhD student Anastasiya Kutuzova , Features of TiO_2 - SnO_2 nanocomposites creation (<i>Ukraine</i>)
11:00-11:15	Coffee break
11:15-11:30	Prof. Yuliia Bondar , Birnessite-coated polyacrylonitrile fibers as nanocomposite adsorbent for removal of Mn^{2+} from contaminated waters(<i>Ukraine</i>)
11:30-11:45	Dr. Mykhailo Derhachov , Fabrication, structure and electrical properties of opal – KDP nanocomposites (<i>Ukraine</i>)
11:45-12:00	Dr. Ivan Yaskovets , Low-temperature magnetotransport properties of single-walled carbon nanotubes bundles (<i>Ukraine</i>)
12:00-12:15	Prof. Oleksiy Myronyuk , Influence of solvent thermodynamical property on Stober process product (<i>Ukraine</i>)
Section “Nanochemistry and nanobiotechnology, and Nanoobjects”(Prof. Karina Lamonova)	
12:15-12:30	PhD student Taisiia Serdenko , The method of analysis of the structural-dynamic properties of a natural objects using the example of Rhodobacter sphaeroides reaction centers (<i>Ukraine</i>)
12:30-12:45	PhD student. Iryna Chereschuk , Comparative effects of water-soluble C_{60} fullerenes and protein kinase inhibitor on rat liver under colon cancer model(<i>Ukraine</i>)
12:45-13:00	Dr. Taras Kavetskyy ,Improvement of amperometric biosensor using chalcogenide, oxide and metal micro/nanoparticles in polymer host matrix(<i>Ukraine</i>)
13:00-14:00	Break
Section “Nanocomposites and nanomaterials”(Dr. Taras Kavetskyy)	
14:00-14:15	PhD student Svitlana Nahirniak , Effect of morphology of SnO_2 nanostructures on their sensing properties to H_2 (<i>Ukraine</i>)
14:15-14:30	Prof. Natalya Kizilova , Heat transfer in complex flows of microfluids and nanofluids through minichannels of different shapes (<i>Ukraine</i>)
14:30-14:45	Dr. Saide Umerova , New prospects in the printed electronics field: designing the size and the structure of clusters underdirected flow using "bottom-up" approach(<i>Ukraine</i>)
14:45-15:00	Prof. Oleksiy Myronyuk ,Influence of solvent thermodynamical property on Stober process product(<i>Ukraine</i>)
15:00-15:15	PhD student Olga Kovalenko ,Effect of Ba/Ti ratio in BaTiO_3 on the crystal parameters and crystallites size(<i>Ukraine</i>)
15:15-15:30	Prof. German Telbiz , Effect of s-doping on the physico-chemical properties and the conductivity of titania nanostructures (<i>Ukraine</i>)
15:30-15:45	Anastasiia Voronova ,Ni-, Co-spinel – carbon nanotubes composites: synthesis, structure and catalytic properties(<i>Ukraine</i>)
15:45-16:00	PhD student Serhii Ivanchenko ,Thin films from cooled suspensions by Tape Casting(<i>Ukraine</i>)
16:00-17:00	Closing ceremony
9:00-17:00	Poster Session
17:00-18:00	Excursion

Chairman of Local Committee and Secretary of Conference:
Dr. O.M. Fesenko, Institute of Physics of the NAS of Ukraine.

Head of the Technology Transfer,
Innovations and Intellectual
Property Department
Institute of Physics
of National Academy of Sciences of Ukraine
Tel: [+3 044 525 98 41](tel:+380445259841)
Mob:[+380674076798](tel:+380674076798)
Fax: [+3 044 525 15 89](tel:+380445251589)
fesenko@iop.kiev.ua
fesenko.olen@gmail.com

Section “Nanoplasmonics and surface enhanced spectroscopy”

Student Vitalii Yanchuk -Thermal expansion of the FeNi ₅₁ alloy surface(<i>Ukraine</i>)
Prof. Volodymyr Fitio -Resonance of surface-localized plasmons in a system of periodically arranged copper and aluminum nanowires on a dielectric substrate(<i>Ukraine</i>)
Prof. Aitbek Aimukhanov -Photonics of a merocyanine dye near the surface of plasmon silver and gold nanoparticles(<i>Kazakhstan</i>)
Dr. Markiy Kushlyk -Enhancement of Bi ₃₊ emission in YAG:Bi, Yb samples by plasmon resonance in Ag NPs at low temperature(<i>Ukraine</i>)
Dr. Dmytro Slobodzyan - Simulation of plasmonic properties of Al nanoparticles on Si surface for dislocation luminescence intensity enhancement (<i>Ukraine</i>)
PhD student Yegor Onykienko -Modification of optical spectra of materials with metal nanoparticles at deformation of media(<i>Ukraine</i>)

Section “Physico-Chemical nanomaterials science”

Prof. Ali Sinag - Wet torrefaction of alkali lignin - Effects of experimental conditions on the nano structure of char (<i>Turkey</i>)
PhD student Andrii Ivaniia -Hydrodynamic and thermodynamic conditions for obtaining a nanoporous structure of ammonium nitrate granules in vortex granulators(<i>Ukraine</i>)
Dr. Artem Artyukhov -Technology and the main technological equipment of the process to obtain N ₄ HNO ₃ with nanoporous structure(<i>Ukraine</i>)
PhD student Artem Vasko - Lowering of friction in monolayers of C ₂₄ H ₅₀ /C ₄₈ H ₉₈ mixture(<i>Ukraine</i>)
Prof. Huseyin Unver - Preparation and characterization of silver nanoparticles (AgNPs) and their applications as biological agent(<i>Turkey</i>)

Section “Nanooptics and photonics”

PhD student Maksim Aleksandrov - Electrical and optical properties of polyethylene composites with multi-wall carbon nanotubes (<i>Ukraine</i>)
Dr. Andrii Bendak -Structure and optical properties of Cu ₇ GeS ₅₁ -based thin film deposited by HiTUS(<i>Ukraine</i>)
Dr. Hanna Bordyuh -Holographic recording on composites of smectic glass and core/shell nanoparticles(<i>Ukraine</i>)
Student Victoria Bundukova -Golden Nanostructures in the Pores of Templates SiO ₂ /Si(<i>Belarus</i>)
Dr. Andriy Chernyuk -Islands of electron-hole liquid in 2D heterostructures(<i>Ukraine</i>)
Prof. Nicolay Davidenko -The holographic method of determination of refractive index of liquid objects(<i>Ukraine</i>)
Prof. Irina Davidenko -Polarization sensitive holographic media(<i>Ukraine</i>)
PhD student Anna Diachenko -The role of nanoscale structural defects in optical absorption of Bi ₁₂ SiO ₂₀ crystals.(<i>Ukraine</i>)
Dr. Irina Galstyan -Influence of carbon nanotubes on the transparency of Polytetrafluoroethylene(<i>Ukraine</i>)
Dr. Igor Gerasimchuk -Nonlinear Localized States in the Structured Media with Interfaces(<i>Ukraine</i>)
Student Kateryna Goncharenko - 1, The effect of MgO on Mn localization in the magnesium titanate red phosphors 2, The photoluminescence of I-III-VI nanocrystals synthesized under different I to III molar ratios(<i>Ukraine</i>)
Dr. Oleksandra Gridyakina -Dynamic holographic recording on nanocomposites with various metal and semiconductor particles(<i>Ukraine</i>)
Dr. Andrey Iljin - 1.Dynamics of optical activity of polymer-stabilized blue phase 2. Random lasing in chiral nematic liquid crystals(<i>Ukraine</i>)
Prof. Ihor Izhnin - 1. Electrical properties of n-HgCdTe MIS structures with HgTe single quantum wells 2. Interactions between islands in thermodynamic and kinetic models of epitaxial quantum dot growth(<i>Ukraine</i>)
Dr. Liudmyla Karachevtseva -Photonic modes in 2D macroporous silicon structures with nc-CdTe and SiO ₂ nanocoatings(<i>Ukraine</i>)
Dr. Elena Korchemskaya -Nonlinearly-optical adjustment of bacteriorhodopsin molecule nanostructure for real-time optical switching(<i>Ukraine</i>)
Student Anastasia Krupka -Two-photon absorption in perylene derivatives(<i>Ukraine</i>)
PhD student Tetyana Mazur -Properties of fuels and quantum-dimensional structures based on CdTe(<i>Ukraine</i>)
PhD student Volodymyr Multian - 1. Characterization of the nonlinear optical properties of ZnO nanoparticles 2. Spectral and nonlinear optical characterization of CdTe/CdS quantum dots in polymer film(<i>Ukraine</i>)
Dr. Vladimir Pavlenko -Time-Resolved Photoluminescence of CdSe/CdS/CdZnS Quantum Dots(<i>Republic of Moldova</i>)
Prof. Aleksandr Ponomarev -Proton beam writing setup for fabrication of 3D micro- and nano-structures(<i>Ukraine</i>)
Dr. Valentyn Rudenko -Nonlinear optical properties of graphene and pyrolytic carbone films(<i>Ukraine</i>)
Prof. Vasyl Varyshchuk -Theoretical study and performance evaluation on plastic optical fiber surface plasmon resonance sensors(<i>Ukraine</i>)
PhD student Yevheniia Yarmoshchuk -Liquid crystal controlled self-referenced SPR sensor(<i>Ukraine</i>)
Prof. Leonid Yatsenko -Momentum diffusion of atoms in the counter-propagating stochastic light waves(<i>Ukraine</i>)
Dr. Ion Zubac -Two-dimensional bright para magnetoexcitons with Dirac cone dispersion law(<i>Republic of Moldova</i>)
Prof. Olexander Bonchyk -Sructural defects study of HgTe/CdHgTe quantum wells(<i>Ukraine</i>)
Prof. Oksana Krupka -Biopolymer DNA and Nanocomposites for Nonlinear Application(<i>Ukraine</i>)

Section "Nanocomposites and nanomaterials"

Dr. Dmitriy Afanasyev- 1, Investigation of charge transfer process in «plasmon core-semiconductor shell» nanostructures 2, Optical properties of nanocomposites with P3HT and Ag-TiO ₂ nanostructures(<i>Kazakhstan</i>)
PhD student Kostyantyn Agarkov- Tellurite glass with alkali metal oxides and its acousto-optic efficiency(<i>Ukraine</i>)
Dr. Sema Alli- 1. Electrical Properties of Polymethyl methacrylate (PMMA) and PSy-g-PMMA Graft Copolymers 2. Investigation of Polymeric Linoleic Acid Graft Copolymer as the organic field effect transistor (OFET) applications 3. Synthesis, Characterization And Physicochemical Properties of New Biodegradable Graft Copolymers(<i>Turkey</i>)
PhD student Ihor Polishko, The comparative study of 8YSZ zirconia powders and their ceramics(<i>Ukraine</i>)
PhD student Roman Kolisnyk, Polymer nanocomposites filled with metal particles for novel heating elements for induction welding of plastics(<i>Ukraine</i>)
Prof. Nicholas Morozovsky, Estimation of thermal diffusivity of expanded graphite - carbon nanotubes composites by heat pulse and thermo-wave methods (<i>Ukraine</i>)
Prof. Oksana Krupka, Biopolymer DNA and Nanocomposites for Nonlinear Application(<i>Ukraine</i>)
PhD student Rabie Amari- Structural and optical properties of ZnO thin films prepared by sol-gel method with 1.2 and 1.5 mol/L solution concentrations(<i>Algeria</i>)
Dr. Antonina Maizelis, Electrooxidation of ethanol on nickel-copper multilayer metal hydroxide electrode(<i>Ukraine</i>)
PhD student Tatyana Antonenko- Phase transformation of synthetic nanosized goethite by reducing with carbohydrates(<i>Ukraine</i>)
PhD student Razet Basnukaeva- 1, Peculiarities of thermal expansion of α -(BEDT-TTF) ₂ NH ₄ Hg(SCN) ₄ single crystal 2, Synthesis and mechanical properties of nanocomposites on the basis of graphene oxide(<i>Ukraine</i>)
Dr. Iurii Vozniak, A new way of in-situ preparation of poly(lactic acid)/aliphatic-aromatic copolyesters nanocomposites based on shear induced crystallization(<i>Poland</i>)
Prof. Ihor Bulyk, Dependence of the low temperature sintered magnets microstructure on conditions of obtaining (<i>Ukraine</i>)
Dr. Tarik Asar- The Thin Film Thickness Effect on the Properties of In ₂ O ₃ (<i>Turkey</i>)
PhD student Khrystyna Bandura- Structural and Electrical Properties of Nickel-Iron Spinel / Reduced Graphene Oxide Nanocomposites(<i>Ukraine</i>)
Dr. Maksym Barabashko- Variation of Hardness of the Bioceramics based on Hydroxyapatite by adding the Multi-walled carbon nanotubes(<i>Ukraine</i>)
PhD student Olesya Pytiuk- 1. Spectrum of localized three-level quasi-particle resonantly interacting with polarization phonons at cryogenic temperature 2. S-matrix and quasi-stationary spectrum of electron in nano-structure with position-dependent effective mass and potential energy(<i>Ukraine</i>)
Prof. Grzegorz Wisz, Characterization of TiO ₂ /Cu ₂ O photovoltaic structures on the base of capacitance simulations and measurements(<i>Poland</i>)
PhD student Dmytro Baranovskyi- Structural and dielectric characterization of sintered BaTiO ₃ -based thin films obtained by tape casting.(<i>Ukraine</i>)
Dr. Tetiana Barlas- Optical properties of nanocomposites based on the transitional metal oxides(<i>Ukraine</i>)
Prof. Gulay Bayramoglu- 1, Fast detection of Brucella melitensis using a preencrishment and QCM aptasensor 2, Biodegradation of Methylene Blue dye and Carbaryl pesticide by immobilized laccase(<i>Turkey</i>)
PhD student Andrii Bodnaruk- Temperature-dependent magnetic properties of a magnetoactive elastomer(<i>Ukraine</i>)
Dr. Yuliia Bolbukh- Polymeric biocomposites ordered using magnetostatic field: a review(<i>Ukraine</i>)
PhD student Ammar Boukhari- Effects of thickness on the properties of ZnO doped Mn Thin Films grown by Sol-Gel spin coating deposition.(<i>Algeria</i>)
Prof. Bahadır Boyacıoğlu- Composite material based on hydroxyapatite, sodium alginate and graphene oxide: preparation, characterization and drug release ability(<i>Turkey</i>)
Prof. Nadia Davydova- Polymorphism in the nanocomposites of the nanomaterial laponite and triphenyl phosphite(<i>Ukraine</i>)
Prof. Bahri Deghfel- Experimental and theoretical study of structural, electronic and optical properties of Zn _{1-x} Mn _x O (x=0.063) Thin film(<i>Algeria</i>)
Dr. Valeriy Demchenko- Silver-containing polymer nanocomposites obtained by the chemical and thermochemical reduction methods (<i>Ukraine</i>)
Dr. Beata Derkowska-Zielinska- Synthesis, optical and morphological studies of ZnO powders, and thin films fabrication by wet chemical methods(<i>Poland</i>)
Dr. Allali Djamel- Electronic and optical properties of the spinel oxides GeB ₂ O ₄ (B = Mg, Zn and Cd): an ab initio study(<i>Algeria</i>)
Dr. Oleksandr Dobrozhan- Silver nanoink for printable electronics(<i>Ukraine</i>)
PhD student Anna Dzhyga- Pd(II), Cu(II), and pillared clay based nanocatalysts for the low-temperature CO oxidation(<i>Ukraine</i>)
Dr. Mezrag Fadila- Pseudopotential study of ZnSe quantum dots: Band structure and dielectric properties(<i>Algeria</i>)
Dr. Zerarga Fares- Elastic and thermodynamic properties of the GeA ₂ O ₄ (B = Mg, Zn and Cd) cubic spinels: an ab initio study(<i>Algeria</i>)
PhD student Tatyana Gaydamak- Piezomagnetic response in FeSe(<i>Ukraine</i>)
Prof. Iurii Gudyma- The transition in finite size spin-crossover system with fluctuating external field(<i>Ukraine</i>)

Phd-student Yuliia Gusieva -The influence of broken spatial inversion symmetry inside interface on the phase shift of spin waves in magnonic crystals(<i>Ukraine</i>)
PhD student Valentyna Havrylova -Transformation of the epoxy-polysiloxane nanocomposite structure under the action of high shear stresses(<i>Ukraine</i>)
PhD student Andrii Kachmar -The influence of isothermal annealing on electrochemical properties of carbon materials(<i>Ukraine</i>)
Prof. Ibrahim Karatas - Some Mechanical Properties of Membranes Containing Polypropylene Bitumen Mixture(<i>Turkey</i>)
Dr. Larysa Kaykan -Structural and Mossbauer studies of nanoscale cobalt substituted lithium iron spinel(<i>Ukraine</i>)
PhD student Mila Kernosenko -Thermosensitive nanogels based on poly(N-vinylcaprolactam)(<i>Ukraine</i>)
Prof. Ziya Erdem Koc - 1. The Synthesis of Dipodal and Cyanuric Chloride Based Dopamine and Its Magnetite Nanoparticles Bridged Complexes 2, The Synthesis of Mono Directional and 2,4,6-Trichloro-1,3,5-Triazine Based 3,4-Dihydroxyphenethylamine and Its Magnetite Nanoparticles Bridged Complexes(<i>Turkey</i>)
Dr. Boris Kolupaev -Structure and Relaxation Properties of Flexible Polymers Filled with Nanoparticles Metal and Semimetal(<i>Ukraine</i>)
Dr. Mariya Kovalenko -Structural and electronic properties of ZnO-GaN heterostructured nanosheets: an ab initio study(<i>Ukraine</i>)
Prof. Oleksandr Kushnerov -Structure and magnetic properties of Co-Cr-Fe-Mn-Ni high-entropy alloy oxide films(<i>Ukraine</i>)
PhD student Olga Lukianova -Manufacturing of pressureless sintered silicon nitride with various additives(<i>Russia</i>)
Dr. Ulas Matik -Electroless nickel deposition using Sn/Pd catalyst on SiC nanofibers(<i>Turkey</i>)
Dr. Inna Melnyk -Surface design of magnetite/silica adsorbents(<i>Slovakia</i>)
PhD student Vasyl Mykhailovych -Synthesis of ZnCr ₂ O ₄ nanoparticles with certain size and morphology(<i>Ukraine</i>)
Dr. Valentyna Nosenko -Some features of Mn ₂₊ in cubic nanoZnS(<i>Ukraine</i>)
PhD student Viktoriia Oleksa -Polysaccharide nanoparticles for creation of micronutrient application(<i>Ukraine</i>)
Student Marta Onuk - Spectral properties of the triple system: DNA-Ag nanoparticles-berberine(<i>Ukraine</i>)
Dr. Iryna Petrik -Peculiarities of stabilization of silver and copper nanoparticles by amino acid Tryptophan in bactericidal textile materials(<i>Ukraine</i>)
PhD student Yuliya Pohribnaya -Thermal stability of deformation microstructure of ultrafine-grained and nanocrystalline titanium(<i>Ukraine</i>)
Dr. Taras Polek -Thermal switching of indirect interlayer exchange coupling in Fe/FeCr/Fe multilayers(<i>Ukraine</i>)
Dr. Yasemin Şafak Asar -Reverse bias current conduction mechanisms in (AuZn)/TiO ₂ /p-GaAs MIS structures in the temperature range of 80-290 K(<i>Turkey</i>)
Prof. Saib Salima -Electronic structure and lattice vibration properties in nanostructured III-V compound semiconductors(<i>Algeria</i>)
Prof. Evgeniya Seliverstova - 1. Preparation and studying of Langmuir films based on N-doped graphene oxide 2. Effect of plasmon resonance of Ag and Au nanoparticles on spectral-luminescent properties of polymethine dye(<i>Kazakhstan</i>)
PhD student. Oksana Shamis -Resistometry study of structural and magnetic transitions in Pt/Fe bilayers during post annealing(<i>Ukraine</i>)
Dr. Pawel Sikora - Evaluation of seawater as a mixing water in cementitious composites incorporated with nanosilica(<i>Poland</i>)
PhD student Aurelija Smalenskaite -Synthesis and characterization of hybrid inorganic (LDH)-organic (terephthalate) nanostructures(<i>Lietuva</i>)
PhD student Ruslan Smolianets -Positive deviation from a Hall- Petch relationship in the nanocrystalline titanium(<i>Ukraine</i>)
Prof. Amit Srivastava - Highly efficient visible light photocatalytic activity of Ni Quantum Dots decorated MoS ₂ -MWCNT composite(<i>India</i>)
Dr. Halyna Starukh -ZnAl layered double hydroxides for simultaneous removal of anionic and cationic organic dye pollutants(<i>Ukraine</i>)
Dr. Iryna Sulym -Structural and thermal studies of MWCNT/poly(dimethylsiloxane) nanocomposites(<i>Ukraine</i>)
Dr. Volodymyr Sydorukh -Synthesis of CeO ₂ -ZrO ₂ solid solution in nano-sized state(<i>Ukraine</i>)
Dr. Tatiana Tkachenko -The effect of heat treatment on properties of SiC prepared from plant residue(<i>Ukraine</i>)
Prof. Mykhailo Trubitsyn - Li ions conduction in amorphous, nano- and microcrystalline states of Li ₂ O-7GeO ₂ (<i>Ukraine</i>)
PhD student Alesya Tulzhenkova -The complex of thermal and electrophysical properties of nanocomposite polychlorotrifluoroethylene - tin dioxide(<i>Ukraine</i>)
Dr. Tetiana Voitenko -Synthesis and characterizations of ZnO nanopowders: A green chemistry approach(<i>Ukraine</i>)
Dr. Andrej Vozniak -Reinforcing effect caused by equal channel angular extrusion of polymers manufactured by the FDM process: Experimental investigation and mathematical modeling(<i>Ukraine</i>)
PhD student Mariia Yakoviv -Study of physical interactions of amphiphilic copolyester of fluorescein with albumin in aqueous dispersions(<i>Ukraine</i>)
PhD student Artem Yakovliev -Near infrared photoluminescent nanoprobes for hyperspectral bioimaging(<i>China</i>)
PhD student Djarri Youcef -A thermal study of fluoroplastic reinforced with thermally expanded graphite(<i>Algeria</i>)
PhD student Dmytro Zhulai -Photovoltaic properties of nanocomposites of cadmium alkanoates with semiconductor nanoparticles(<i>Ukraine</i>)
Dr. Ruslan Krivobok -Radio-absorbing composite ceramic materials(<i>Ukraine</i>)
Prof. Roman Kozakevich -Polymeric hydrogels for biomedical application with controlled release of Enoxil(<i>Ukraine</i>)
Dr. Andrew Koval -InP photovoltaic cells with optimized nanometric layers(<i>Moldova</i>)
Dr. Oksana Chepurna -Core-shell polymeric nanoparticles for photodynamic therapy guided by fluorescence imaging in

second infrared window(<i>China</i>)
Dr. Ridvan Karapinar -Capacitance of a liquid crystal doped with nanoparticles(<i>Turkey</i>)
Dr. Sergii Snegir -Diarylethene photochromic molecules as building blockes for opto-electronical devices and elements of electronic circuits(<i>Ukraine</i>)
PhD student Serhii Krasnovyd -Paramagnetic properties of polyamide based nanocomposites with ND and WC/TiC micro- and nanoclusters as fillers.(<i>Ukraine</i>)
PhD student Ivan Bashmakov -Directed synthesis tin (IV) oxide nanostructures(<i>Ukraine</i>)
Dr. Alla Truba -Nanostructured aerosols containing magnetite and a-iron for low-temperature ozone decomposition(<i>Ukraine</i>)
PhD student Natalia Rusinchuk , Antiviral effect of non-functionalized gold nanoparticles against herpes simplex virus type 1 (HSV-1)(<i>Ukraine</i>)

Section "Nanoscale physics"

Dr. Vadym Tsvitkovskiy -Thermally assisted and quantum vortex creep in type-II superconductors with columnar defects(<i>Ukraine</i>)
Dr. Andriy Shkola -The dual role of oxide film in hydrogenation of metals (on the basis of titanium)(<i>Ukraine</i>)
Oleh Kravets ,The humidity sensitivity of magnesium-zinc gallate solid solutions with spinel structure(<i>Ukraine</i>)
PhD student Olha Kovalenko -Spiropyran-Merocyanine isomerization under electron attachment(<i>Ukraine</i>)
Dr. Andrii Korostil -Spin-dependent scattering and a spin transfer torque in magnetic nanostructures with normal metal layers(<i>Ukraine</i>)
PhD student Nikita Kurnosov -Thiol compound interaction with single-walled carbon nanotubes covered by DNA: Raman spectroscopy study(<i>Ukraine</i>)
Prof. Oksana Koplak , Morphological modification of Ta/Pt/Gd _{21,6} Fe _{67,8} Co _{10,5} /IrMn/Pt structures after laser irradiation by scratching. (<i>Russia</i>)
Prof. Anatolii Evtukh -Electrical Properties of Silicon Oxide Films with Si and Metal Nanoclusters(<i>Ukraine</i>)
Dr. Zoryana Zhuchenko -Spectroscopic study of temperature dependent photoluminescence of GaAs _{1-x} Bix /GaAs heterostructures(<i>Ukraine</i>)
Dr. Mykola Kornienko - 1) Discrete stages of phase transitions in nanostructures and extremal properties of substances, 2) Quantum-chemical calculations of molecules and their clusters – a platform for substantiating the collective properties of fluid vibrations and biological macromolecules(<i>Ukraine</i>)
Student Pavlo Makushko ,Effect of stress on L10 phase formation and magnetic properties of nanoscale Fe ₅₀ Pt ₅₀ /Au/Fe ₅₀ Pt ₅₀ films(<i>Ukraine</i>)
PhD student Nataliia Shcherban ,The spin-resolved electronic structure: comparative study of doped crystals Si<Ni> and Si<B, Ni>(<i>Ukraine</i>)
PhD student Ihor Starchenko -Special non-CSL grain boundaries in tungsten: mechanical recrystallization(<i>Ukraine</i>)
Student Danyil Azarkh -Resonance of interphase boundaries in ferromagnetic films with spatially inhomogeneous parameters(<i>Ukraine</i>)
Dr. Yuriy Khoverko -Rashba interaction in polysilicon layers at cryogenic temperatures(<i>Ukraine</i>)
PhD student Yurii Klysko -Quasiparticle Study of Cyclopentadithiophene–Benzothiadiazole -Based Polymers(<i>Ukraine</i>)
Student Hanna Demchenko -Possible way for simplification of theoretical study of interactions in systems of many nanoparticles(<i>Ukraine</i>)
PhD student Artem Vasko - Formation of gold nanostructures on MoS ₂ surface modified (<i>Ukraine</i>)
Dr. Oleksandr Tkach -Polar phonon behaviour in polycrystalline SrTiO ₃ thin films: the role of the substrate(<i>Portugal</i>)
Dr. Oleg Bratus -Peculiarities of electron transport in SiO _x films obtained by ion-plasma sputtering(<i>Ukraine</i>)
Prof. Liubomyr Monastyrskii -Modelling of the field effect in porous silicon(<i>Ukraine</i>)
Student Vasyl Bilanych -Mechanical properties of Cu ₆ PS ₅₁ -based argyrodite thin films(<i>Ukraine</i>)
Dr. Andrii Doroshenko -Mechanical and optical properties of Y ₂ O ₃ :Eu ₃₊ nanoceramics(<i>Ukraine</i>)
Dr. Olha Pylypova -Influence of Low-Temperature Annealing on the Electrical Conductivity of SiO _x Films(<i>Ukraine</i>)
Dr. Mykola Krupa -Induced orientational ordering ferronematic liquid crystals(<i>Ukraine</i>)
Prof. Volodymyr Rusakov -Forced oscillations of an Abrikosov's vortex in superconductors(<i>Ukraine</i>)
Ph.D. Student Yavorskyi Rostyslav -Experimental and theoretical studies of CdTe solar cells(<i>Ukraine</i>)
Dr. Alexander Zhuravlev -EPR spectra of D4h Symmetry Four-Nuclear Molecular Complex(<i>Ukraine</i>)
Dr. Yevgen Shevchenko -Electrofluorescence Molecular Diode: The Asymmetry of the Voltage Dependence(<i>Ukraine</i>)
Prof. Yuriy Lyashenko -Copper plates bonded by solder pastes: effects of copper crystallinity and powder coatings on joining kinetics(<i>Ukraine</i>)
Dr. Yuriy Skorenkyi -Competition of magnetic ordering types within periodic Anderson model for quantum dot array(<i>Ukraine</i>)
PhD Student Rokas Jasiunas -Charge carrier spatial trapping limits all-polymer solar cell performance(<i>Lithuania</i>)
Dr. Anatolii Nedolya -Calculation of the specific energy change in an iron-based BCC nanocluster(<i>Ukraine</i>)
PhD student Olga Sulymenko -Antiferromagnetic tunnel junction as a key-element of nanoscale THz-frequency signal source(<i>Ukraine</i>)
Prof. Anatolij Krakovny - 1. Microwave properties of Mo _x Re _{1-x} Josephson junctions 2. Microwave properties of Josephson junctions embedded in a Mo _x Re _{1-x} surface electromagnetic wave resonator (<i>Ukraine</i>)
Dr. Volodymyr Shaternik - 1, SQUIDS based on self-shunted MoRe-Si(W)-MoRe Josephson junctions 2, The influence of disorder on emission of a stack of two Josephson junctions(<i>Ukraine</i>)
Prof. Alexander Kasatkin -Josephson effect in superconducting junctions with a semiconducting barrier containing metallic nanoclusters (<i>Ukraine</i>)
Dr. Przemyslaw Raczynski - 1, Impact of carbon nanotubes on HDL - like structures – computer simulation study 2, Properties of n-Cyanobiphenyl nematogene phases formed between carbon nanotube arrays – computer simulation study (<i>Poland</i>)
PhD student Oleksandr Prokopov - Phase transitions in the graphite intercalation compounds with bromine (<i>Ukraine</i>)
PhD student Marharyta Lakusta -Influence of the zirconia nanopowders structure modification by the silica addition on the diffusion mechanisms during sintering.(<i>Ukraine</i>)

Dr. Vasyl Voitovych -Influence of metal admixture of tin on the processes of nanocomposite silicon-oxide thin film formation(<i>Ukraine</i>)
PhD student Oleksii Kryvchikov -Ferromagnetic clusters surrounded by antiferromagnet. Effects of the interaction and randomness(<i>Ukraine</i>)
Dr. Irina Korotkova -Encapsulation of horseradish peroxidase in water-immiscible coacervates with enhanced of thermostability(<i>Ukraine</i>)
Dr. Lina Sartinska -Effect of Concentrated Light on Mixture of Boron and Aluminum Powders Transformation(<i>Ukraine</i>)
PhD student Oleksandr Slobodian -Sensor properties of low-temperature reduced Graphene Oxide(<i>Ukraine</i>)
PhD student said Talbaoui -Phonons dispersion curves And Phonons density of dielectric materials(<i>Morocco</i>)
Dr. Liudmyla Shmeleva - 1. Approximation of a simple rectangular lattice for a conduction electron in graphene 2. Control of metabolic current along a protein-like nanowire by means of a magnetic field 3. Modeling of nano-crater formation on the material surface under the influence of high-power pulsed radiation(<i>Ukraine</i>)
Prof. Georgiy Tarasov -Strong angular dependence of photoluminescence spectra in CdMgTe/CdMnTe/CdMgTe quantum well heterostructures (<i>Ukraine</i>)
Prof. Georgiy Tarasov -Effect of losses in active region and the doping concentration on optical characteristics of quantum cascade laser(<i>Ukraine</i>)
Prof. Mykhailo Trubitsyn - Anomalies of Pb ₂ MoO ₅ permittivity induced by UV irradiation(<i>Ukraine</i>)
Section “Nanoobjects microscopy”
Dr. Petro Lytvyn -Quantification of magnetic force microscopy data: model approaches for reconstruction and quantitative characterization(<i>Ukraine</i>)
PhD student Viktor Artemyuk -Nickel ordered structures on single crystal silicon surface after thermal deposition (<i>Ukraine</i>)
Dr. Tetiana Monastyrska ,Peculiarities of the formation of nanostructured states in heat-treatable Al-Mg alloys(<i>Ukraine</i>)
Dr. Halyna Petrovska -New approach of a rapid digital hologram processing during the micro-objects study(<i>Ukraine</i>)
Dr. Aleksey Mazilov -Nanostructure of NbTi superconducting alloy(<i>Ukraine</i>)
Dr. Volodymyr Sukhomlyn -Method of matrix description of orientational relations of austenite-ferrite-cementite in steels (<i>Ukraine</i>)
Dr. Anton Senenko -AFM/STM investigations of nanoparticles used to improve the effectiveness of chemotherapy (<i>Ukraine</i>)
Dr. Bohdan Mordyuk -Nano-scale precipitates and crystallites formed by ultrasonic impact treatment in AlCuCrCoNiFe high-entropy alloy(<i>Ukraine</i>)
PhD student Yaroslava Lopatina - 1, Rotational polymorphism in monolayers of diamondoids 2, Dynamics in self-assembled monolayers of paracetamol derivative on graphite(<i>Ukraine</i>)
Section “Physico-Chemical nanomaterials science”
Dr. Iuliia Mukha -Study of formation and ripening processes in gold nanoparticles colloid with UV-vis and DLS spectroscopy (<i>Ukraine</i>)
PhD Student Mykola Sieryk -Modeling of the adsorption cyanine benzo[c,d]indole on the surface of substrates of different nature.(<i>Ukraine</i>)
Dr. Nataliia Davydenko -Yttrium Iron Garnets Doped with Mn ₃₊ and Al ₃₊ ions(<i>Ukraine</i>)
Student Konstantin Rozhalovets -VI-B group metals silicides nanopowders obtaining by metallothermic synthesis(<i>Ukraine</i>)
Prof. Tatyana Rodionova ,Grain-boundary energy in silicon films(<i>Ukraine</i>)
Dr. Olena Sych ,Effect of chitosan coating on the structure of highly-porous bioceramic scaffolds based on nanostructured biogenic hydroxyapatite and SiO ₂ -B ₂ O ₃ -Na ₂ O glass for bone tissue engineering(<i>Ukraine</i>)
PhD student Iryna Chernilevska -Universal micro-particle dynamics in non-uniform electric fields (from liquid to granular jet)(<i>Ukraine</i>)
PhD student Vasyl Sidak -The influence of heat treatment on optical properties of Na _{0.5} Bi _{0.5} TiO ₃ crystals(<i>Ukraine</i>)
Dr. Anastasiia Sachko -The association processes and physical-chemical properties of casein–benzethonium chloride aqueous systems.(<i>Ukraine</i>)
Dr. Yuri Skirta -Temperature and Phase Separation of Electrolyte under Electrochemical Action in an External Magnetic Field(<i>Ukraine</i>)
PhD student Viktoriia Pylypko -Synthesis of (Zn,Cd) _x Mn _{1-x} S nanoparticles by an ion-exchange reaction(<i>Ukraine</i>)
Dr. Oksana Kharchenko -Synthesis and study of methacrylic monomers and polymers on the basis of aurones(<i>Ukraine</i>)
PhD student Borys Reshytko -Synthesis and properties of CaCu ₃ Ti ₄ O ₁₂ and La _{2-x} Sr _x NiO ₄ condenser materials with a colossal permittivity(<i>Ukraine</i>)
PhD student Yana Pavliuk -Structural transformations and surface hardening of Cu-Cr alloys in the result of impulse laser alloying(<i>Ukraine</i>)
Maria Sadovnikova -Stability of Electrical Properties of Proton Modified Subsurface Layer in Si Matrix(<i>Ukraine</i>)
PhD student Mariia Samsonenko -Sonochemistry and mechanochemistry as methods for activation and doping of tin dioxide photocatalyts(<i>Ukraine</i>)
Prof. Pavlo Galiy -Quantitative analysis of indium deposited layer formation mechanism for In/In ₄ Se ₃ (100) nanosystem(<i>Ukraine</i>)
Prof. Yura Venhrun -Photoluminescent properties of doped ZnO nanopowders for gas sensors(<i>Ukraine</i>)
Prof. Andrii Panko , Nanostructural, biocolloid and physicochemical factors of stress phenomena in iron-aluminum silicate aqueous dispersions (<i>Ukraine</i>)
Dr. Serhii Parkhomenko -Peculiarirties of formation (Y,Lu,Sc) ₂ O ₃ :Yb ₃₊ mixed sesquioxide transparent ceramics(<i>Ukraine</i>)
Dr. Bogdan Vasyliv -On the nanostructural peculiarities of nucleating the microcracks in a nickel oxide containing material(<i>Ukraine</i>)

Dr. Igor Lishchynskyy -Nanophase separation in Ge-S-Ag glasses(<i>Ukraine</i>)
Dr. Igor Bychko -Multi-walled carbon nanotubes catalytic properties in hydrogenation of organic compounds(<i>Ukraine</i>)
Student Oleksandr Goretskiy -IV-VIB groups metals borides and carbides nanopowders corrosion resistance in nickeling electrolytes(<i>Ukraine</i>)
Student Oleksandr Yasko -High Temperature Electrochemical Synthesis of Tungsten Carbide Nanopowders from Ionic Melts(<i>Ukraine</i>)
PhD student Mykhailo Kurmach -Hierarchical Ti-, Sn- and Zr-containing zeolites as promising catalysts for ethyl lactate condensation into lactide(<i>Ukraine</i>)
PhD student Dmytro Pavliuk -Formation's features of a protective coating from the high entropy alloy AlFeNiCoCuCr by electrospark alloying(<i>Ukraine</i>)
Dr. Roman Lys -Features of changes in the electrical resistance of p-Si crystals under the action of an elastic one-axial mechanical load and a magnetic field(<i>Ukraine</i>)
Student Ignas Čiplys -Excited state dynamics of photochromic dimethyldihydropyrene derivatives in solutions(<i>Lithuania</i>)
Prof. Stepan Kuchmiy -Enhancing visible light photocatalytic activity of g-C ₃ N ₄ based nanostructures by the molten salt approach(<i>Ukraine</i>)
Prof. Nadir Bouarissa -Energy levels and optical properties of CdSe spherical quantum dots(<i>Algeria</i>)
Dr. Egor Kaniukov -Electrochemical deposition of metals into nanopores of Si/SiO ₂ template(<i>Belarus</i>)
Dr. Yuliya Vyshnevskaya -Deposition and characterization of multipurpose functional coatings based on PDPA with incorporated AgNPs(<i>Ukraine</i>)
Dr. Leonid Salamakha -Crystal structure and electronic properties of Zr-based nickel aluminides(<i>Ukraine</i>)
Dr. Nataliia Fihurka -Approaches for improving physical and mechanical properties of hydrogels(<i>Ukraine</i>)
Dr. Anatoliy Petrovich Onanko -Adsorption, elastic properties of porous SiO ₂ , porous polystyrene and automated system(<i>Ukraine</i>)
Prof. Anatoliy Luzanov - 1. Cyclic aromaticity in p-conjugated nanomaterials within quasi-correlated tight-binding model; 2. Conductance of nanographene molecules in simplified tight-binding p-schemes(<i>Ukraine</i>)
Student Kateryna Hnatiuk - 1. Investigation of the structure and thermal motion in nanostructured 1-octadecene 2. Two-dimensional crystal structure formed by chain molecules in the pores of a solid matrix(<i>Ukraine</i>)
Student Maryna Holiatkina -The study of DNA-Ethidium-Flavin Mononucleotide multicomponent system by molecular dynamics simulation(<i>Ukraine</i>)
Dr. Rada Savkina -Sonosynthesis of Organic Functional Groups on Semiconductor Surface Nanostructured by Cavitation(<i>Ukraine</i>)
Student Merve Nurhan Güney - 1, Electronic and Nonlinear Optical Properties of Some Halothiophenes and Halofurans 2, Electronic and Nonlinear Optical Properties of Some Halopyrroles(<i>Turkey</i>)
Prof. Ersin Güler -Synthesis, Characterization And Magnetic Properties Of Nickel(Ii) And Copper(Ii) Complexes Of The Schiff Bases Derived From Δ^3 -Tetrahydrobenzaldehyde And 2-Methyl- Δ^3 -Tetrahydrobenzaldehyde And Glycine (<i>Turkey</i>)
Prof. Ersin Güler Synthesis, characterization and magnetic properties of nickel(ii) and copper(ii) complexes of the schiff bases derived from 4-methyl- δ^3 -tetrahydrobenzaldehyde and 6-methyl- δ^3 -tetrahydrobenzaldehyde and glycine (<i>Turkey</i>)
Prof. Ali Sinag - Nonlinear and saturable absorption characteristics of TiO ₂ /carbon nanocomposites in PMMA(<i>Turkey</i>)
Prof. Ali Sinag - Tar production from nano metal oxide catalyzed coal pyrolysis(<i>Turkey</i>)
Dr. Mustafa Yildiz , Synthesis of 2-aminoethylphosphonic acid-functionalized graphene quantum dots and their applications in molecular biology (<i>Turkey</i>)
Prof. Bahadır Boyacıoğlu - 1, Synthesis and applications of a colorimetric sensor based on polyethyleneimine doped graphene quantum dots nanoparticles directed to cations 2. Cytotoxicity effect of graphene quantum dots-metal nanocomposite on human A549 and MCF-7 cells(<i>Turkey</i>)
Dr. Vladyslav Lisnyak - Kinetic analysis of nanodiamonds oxidation(<i>Ukraine</i>)
Dr. Valeriy Demchenko -Relaxation behavior of polyethylene welded joints(<i>Ukraine</i>)
Prof. Yaroslav Shopa -Optical activity and electrooptic effect of pure and L-arginine doped KDP single crystals(<i>Poland</i>)
Aleksandra Mariichak -Nanosized Na ₉ [Eu(W ₅ O ₁₈) ₂]•35H ₂ O: synthesis and investigation(<i>Ukraine</i>)
PhD student Alena Shumskaya , 1D metallic nanostructures in flexible ion-track templates(<i>Belarus</i>)
Student Maryna Holiatkina , Structure and magnetic properties of water-based Fe and Fe oxides colloidal solutions obtained by different methods(<i>Ukraine</i>)
Prof. Volodymyr Shcheretskyi , Formation of tribotechnical composite layer on the base of Cu-Al-Fe system reinforced with nanosized particles by liquid phase metallization method(<i>Ukraine</i>)
Mr. Petro Budnyk , The method for determining the chronological scheme of climate change based on the determination of the concentrations of chemical impurities in glaciers(<i>Ukraine</i>)
PhD student Volodymyr Multian - Elastic optical scattering of ZnO nanoparticles and bulk crystals under CW laser excitation at 532 nm (<i>Ukraine</i>)

PhD student Bogdan Tsykaniuk- 1. Optical properties of the nanostructured n-GaP substrates 2. Effect of stirring time on the light-emitting properties of ZnO nanorods/p-GaN LEDs 3. Raman and infrared spectroscopy of ZnSe crystal doped with cobalt ions 4. Photoluminescence and structural properties of Tb ₃₊ and Eu ₃₊ doped ZnO thin films(Ukraine)
Dr. Oleksandr Morozov -Retention and thermal release behavior of helium implanted in austenitic stainless steel 18Cr ₁₀ NiTi (Ukraine)
Dr. Victor Nikolaenko , Selective MW detecting using the surface electrons over liquid helium on structured substrate(Ukraine)
Prof. Olha Maksymiv ,The mechanical behavior of the tempering surface nanocrystalline structure obtained by mechanical-pulse treatment(Ukraine)
Dr. Oleksandr Morozov -Effect of irradiation temperature on the nanoindentation hardness of Zr _{2.5} Nb alloy(Ukraine)
Dr. Bohdan Mordyuk -Nanostructured coatings of high-entropy AlCuCrCoNiFe alloy obtained by physical vapor deposition method with cathode arc evaporation (PVD CAE): Corrosion behavior (Ukraine)
Prof. Ibrahim Karatas - Monohydrate Oximes And Their Metal Complexes (Turkey)
Dr. Ivan Karbovnyk - Formation of oriented luminescent organic thin films on modified polymer substrate(Ukraine)
Prof. Georgiy Tarasov - Configurational resonances for the silicon surface covered with metallic nanoparticles (Ukraine)
Dr. Yaroslav Kyryliv -Working ability of surface ultra-fine grain structure under conditions of cavitation and erosion damage(Ukraine)
Dr. Anatoly Loburets -Vapor-liquid equilibrium and surface diffusion in adsorbed copper monolayers on the (112) tungsten face(Ukraine)
Dr. Olesia Smirnova -Theoretical spatial structure and spectral characteristics of various ZrO ₂ nanoparticles and Zr doped TiO ₂ films(Ukraine)
Dr. Iryna Yermolenko -The effect of the electrolysis regime on the phase composition of nanostructure Fe-Co-W coatings(Ukraine)
Dr. Alex Kuprin -The effect of helium irradiation on the onset of plasticity in nanodeformation of silicon(Ukraine)
Dr. Dmytro Derecha -The Diffusion-Hardening Effect on the Corrosion Resistance and Technological Properties of High-Temperature Steel(Ukraine)
PhD student Andrew Proshak -Structure and peculiarities formation of high-entropy alloys coatings(Ukraine)
PhD student Maria Pasko -Structure and optical properties of CN _x -Diamond core/shell nanostructured(Ukraine)
Dr. Oleksandr Havryliuk -Simulation of optical properties of silicon periodic nanostructure for solar cells(Ukraine)
PhD student Roman Bogdanov -Role of Magnetron Sputtered Nickel in Formation of sp ² -bonded Carbon Nanocrystalline Films(Ukraine)
Student Oleksandr Ostapiv -Role of Ag-catalyst morphology and molarity of AgNO ₃ on the size control of Si nanowires produced by metal-assisted chemical etching(Ukraine)
Dr. Andriy Dmytruk -Practical aspects of laser induced periodic surface structure formation(Ukraine)
Dr. Oksana Strilchuk -Photoluminescence of γ -irradiated single-layer uncapped quantum dots(Ukraine)
Prof. Tatiana Beynik -Obtaining and properties of monolayer ensembles of isolated star-shaped Au nanoparticles(Ukraine)
Dr. Alina Dvornichenko -Nano-structured thin films growth control in multi-layer anisotropic adsorptive systems(Ukraine)
PhD student Ann Karakurkchi -Nanostructured mixed oxide coatings incorporated by transition and refractory metals on silumin(Ukraine)
Dr. Halyna Malanych -Nanosized relief formation on the PbTe and Pb _{1-x} Sn _x Te crystal surfaces during chemical-mechanical polishing(Ukraine)
Dr. Dmytro Lesyk -Nanocrystalline surface layers in tool steel AISI D2 formed by combined laser-ultrasonic surface processing(Ukraine)
Dr. Ievgenij Dzevin -Laser ablation of Fe-Al-C alloys containing a diamond phase(Ukraine)
PhD student Pavlo Torchyniuk -Influence of laser radiation on the degradation of films of organic-inorganic CH ₃ NH ₃ PbI ₂ ·0.98Cl _{0.02} perovskite(Ukraine)
Dr. Oleksandr Kondrat -In situ controlled reversible transformations of As ₅₆ Se ₄₄ nanolayers for application as active media in all optical signal processing systems(Ukraine)
Dr. Roman Holomb -Gold-catalyzed synthesis of As ₂ S ₃ nanolayers and their characterization by electron microscopy, surface-enhanced Raman spectroscopy and DFT calculations(Ukraine)
Dr. Liudmyla Grishchenko -From destructive adsorption of CCl ₄ to bonding sulphogroups onto nanoporous activated carbon fibers(Ukraine)
Prof. Vitalij Danilchenko -Formation of ultrafine structure of the surface layer of Fe-Si alloy as a result of pulsed laser treatment(Ukraine)
Ph.D. Student Mariana Shepida -Formation of silver nanoparticles on the surface of silicon by galvanic replacement(Ukraine)
Dr. Pavlo Kuzema -Fluorination of silylated silicas(Ukraine)
Dr. Petro Smertenko -Features of composite low-molecular-weight organic/inorganic silicon-based nanostructures for photovoltaic applications(Ukraine)
Dr. Olena Lavrynenko -Development of the nanosized structures at the steel 3 – bentonite interface under conditions of geological repository(Ukraine)
Dr. Nadiia Roik -Design of MCM 41 type silicas with molecular template roughness surface for selective adsorption of azo dyes(Ukraine)
Dr. Ivan Gab -Annealing influence in vacuum on dispersion of molybdenum nanofilms deposited onto non-metallic

materials(Ukraine)
PhD student Anastasiia Khominich -About the features of the interaction of a liquid metal drop generated by an arc of a vacuum discharge with a substrate under the conditions of the CVD synthesis of carbon nanotubes(Ukraine)
Prof. Zafer Ylazicigil - 1. The Synthesis Of 4-Nitro-1-Naphtylamine Diazonium Salt and Its Electrochemical Characterization 2. A Joint Analysis of Electrochemical Impedance, Cyclic Voltammetry and Pulse Voltammetry Data(Turkey)
PhD student Arjan Hameed - Substitute hydrazo glyoxime and condensation reaction between oxime and hydrozones (Iraq)
Dr. Yuliia Kosminska -Self-organized plasma-assisted growth of micro- and nanosystems(Ukraine)
PhD student Georgiana-Oana Turcan-Trofin -Metal complexes of silicone-based ligands able to self-assemble(Romania)
Dr Elena Mokrinskaya - New photosensitive polymeric thin film nanocomposites for photovoltaic applications (Ukraine)
Prof. Bohdan Koman -Modeling of processes in the surface nanolayers of solids for interfacial interactions(Ukraine)
Prof. Nikolai Lebovka -Electrosurface properties of carbon nanotubes in aqueous suspensions: Combined effects of surfactants and laponite platelets(Ukraine)
Prof. Sandor Barany -Electrosurface properties and stability of cerium dioxide suspensions(Hungary)
Dr. Vladyslav Lisnyak - Hydrogen oxidation with oxygen over supported nanoscale noble metal catalysts(Ukraine)
Section "Physico-Chemical nanomaterials science"
Prof. Ivan Protsenko ,Magnetoresistance and magnetic properties high-entropy film alloys with FCC lattice(Ukraine)
Section "Nanochemistry and nanobiotechnology, and Nanoobjects"
Prof. Heshmatollah Alinezhad -Synthesis of tetra-hydro-benzo[b]pyrane derivatives using nano magnetic graphene-oxide functionalized with triethylene tetramine(Iran)
PhD student Ibtissam Charti -Rapid and green microwave-assisted synthesis of Zinc Oxide nanoparticles using aqueous Phoenix Dactylifera L. (Date palm) wood extract and evaluation of antibacterial and antifungal activities(Morocco)
Dr. Andrii Melnyk , Solvent-dependent intramolecular spin-spin interactions in the paramagnetic derivatives of adamantane (Ukraine)
Dr. Mustafa Yildiz -Preparation, caharacterization and biological application of palladium nanoparticles (PdNPs) based on nitrogen-doped porous carbon particles (GQDs)(Turkey)
Prof. Ivan Kucherenko ,Comparison of the possibility of using a calixarene based sensor and a two enzymes based biosensor for the arginine analysis(Ukraine)
Prof. Halil İsmet Ucan - Synthesis Of (3-(4-(1H-imidazo[4,5-f][1,10]phenanthrolin-2-yl)phenoxy)propyl) Fe ₃ O ₄ dimethoxysilanol) Diacetoxynickel (Turkey)
Prof. Halil İsmet Ucan - Pyrene-appended ruthenium(ii) complex design (Turkey)
Dr. Yurii Kot -The influence of GdVO ₄ :Eu ₃₊ nanoparticles on the adhesion properties and viability of rat hepatocytes in vitro (Ukraine)
Dr. Yurii Kot - Prooxidant-antioxidant status of rat hepatocytes mitochondria under incubation with GdVO ₄ :Eu ₃₊ nanoparticles in vitro (Ukraine)
Dr. Yurii Kot - The kinetics of hepatocytes autofluorescence at interaction with GdVO ₄ :Eu ₃₊ nanoparticles(Ukraine)
Dr. Oleksandr Soldatkin -Use of nanosized gold particles for improvement of analytical characteristics of enzyme biosensors(Ukraine)
PhD student Kateryna Miroshnychenko -The study of DNA-Ethidium-Flavin Mononucleotide multicomponent system by molecular dynamics simulation(Ukraine)
Dr. Tatiana Kruzina -The elastic-optical effect in Na _{0.5} Bi _{0.5} TiO ₃ crystals(Ukraine)
PhD student Veronika Tomina -Synthesis of hybrid silica supports for incorporating luminescent complexes of rare earth metals(Ukraine)
Dr. Igor Dubey -Quantum chemical modeling of the interaction of new acridine-based telomerase inhibitors with a parallel DNA quadruplex(Ukraine)
PhD Student Mariya Borovaya -Prospects of CdTe quantum dots as fluorescent probes for bioimaging applications(Ukraine)
PhD student Mariia Kovalenko -Phytotoxicity of colloidal solutions of stabilized and non-stabilized nanoparticles of essential metals and their oxides(Ukraine)
Prof. Volodymyr Karbivskyy -Investigation of VTM-based nanowires with Au nanoparticles(Ukraine)
PhD student Anna Bakhmachuk -Influence of cross-linking reagents on the operation parameters of bioselective elements of SPR immunosensors based on intermediate layer of recombinant Staphylococcal protein A(Ukraine)
PhD student Iryna Skorochod -Influence of bentonite particles of various sizes on growth activity and synthesis of compounds of phenolic nature of Bacillus subtilis IMV B-7023(Ukraine)
Student Andrii Grynyuk -In silico study of DNA binding interaction of cis-Palladium (II) 3-(2-pyridyl)-5-methyl-1,2,4-triazole in combination with C60 fullerene and evaluation of their hemolytic activity in vitro.(Ukraine)
PhD student Mariia Liaskovska -Green synthesis and characterization of Zn-doped cobalt ferrites nanoparticles using Ginkgo biloba leaf extract(Ukraine)
Dr. Andriy Kytsya -Green synthesis and antimicrobial activity of silver nanoparticles(Ukraine)
Prof. Orest Kuntiyi -Electrochemical synthesis of silver nanoparticles using surfactants of glycolipid nature(Ukraine)
Student Serafym Lopatko -Effect of Cu/salicylic acid nanocolloid on plant-fungal pathogen interactions(Ukraine)
Prof. Ivan Kurdish -Dependence of growth and superoxide dismutase activity of Bacillus subtilis IMV V-7023 from the content of nanoparticles of natural minerals and ions of mangan and iron.(Ukraine)
Dr. Iryna Grynyuk -Cytotoxic and apoptotic effects of cis-Palladium(II)3-(2-pyridyl)-5-methyl-1,2,4-triazole in combination with C ₆₀ fullerene against LLC cells(Ukraine)
PhD student Anna Naumenko -Cholinergic excitation of the gastrointestinal tract smooth muscles due to the action of

nanostructured TiO ₂ , and its molecular docking to the extracellular parts of muscarinic acetylcholine receptors M2 and M3 types(Ukraine)
Dr. Elena Pavlovich -Change in functional state of mesenchymal stromal cells after incubation with silver nanoparticles (Ukraine)
PhD student Iryna Khomenko -Cadmium and essential metal nanoparticles influence on the oxidative stress parameters of lettuce plants(Ukraine)
Dr. Nataliia Volkova -Biocompatibility of silver nanoparticles with mesenchymal stromal cells under culturing(Ukraine)
Dr. Svitlana Prylutska -Antitumor activity of C ₆₀ fullerene-Cisplatin nanocomplex against Lewis lung carcinoma cells(Ukraine)
Dr. Liudmyla Shkotova -Amperometric biosensor modified with m-PhD/SiO ₂ -GNPs-GO _x for determination of glucose in wine(Ukraine)
Dr. Ruslan Mariychuk -Green synthesis of metal nanoparticles using plant extracts(Slovakia)
Dr. Olga Biloivan -A New Sensor Platform for Specific Monitoring of Dehydrogenase Activity.(Ukraine)
Prof. Marek Kasproicz -Comparison of the influent of silver ions and silver nanoparticles on the growth of Fusarium culmorum sp.(Poland)
Prof. Volodymyr Chegel -Creating of effective prodrugs: gold nanoparticles - doxorubicin - bovine serum albumin complex(Ukraine)

Section “Nanobiotechnology for health-care”

PhD student Inna Belkina -Vanadium nanoparticles as reproductive correctors(Ukraine)
Dr. Alexandre Rachkov -Use of gold nanoparticles modified by specific oligonucleotides for enhancing response of the DNA-sensor based on SPR(Ukraine)
PhD student Anna Grzesiakowska -Toxic effect of silver nanoparticles on DNA integrity in chinchilla’s somatic cells(Poland)
PhD student Yuriy Boiko -Novel fullerene-silica nanocomposites with bisphosphonic acids and palladium bisphosphonates as promising antineoplastic drugs(Ukraine)
Dr. Natalia Naumova -Nanobiosensing with antioxidant biomarkers using microwave WGM resonance technique(Ukraine)
Dr. Olena Perepelytsina -Influence of carbon nanotubes and its derivatives on biochemical parameters, cellular blood composition in vivo(Ukraine)
PhD student Halyna Rokytska -Heat conductivity of penton filled by multi-walled carbon nanotubes(Ukraine)
PhD student Olesia Kalmukova -Gold and silver nanoparticles affect pituitary component of reproductive system in male rats(Ukraine)
PhD student Uliana Tarabara -Drug nanocarriers combining liposomes and amyloid hydrogels(Ukraine)
Prof. Alexander Golub -C ₆₀ Fullerene-Silica Nanocomposites Influence on Tumor Growth and Immune State of Animals(Ukraine)
PhD student Ali Hussein Mustafa Al-Obidi - 1. biological effect of nano compound (3-(4-(1H-imidazo[4,5-f][1,10] phenanthroline-2-yl) phenoxy)propyl) Fe ₃ O ₄ dimethoxysilanol) Cobalt(II) nitrate ions as immobilized affinity system for hemoglobin) 2. Synthesis of Nano Compand (3- (4- (1H-imidazo [4,5-f] [1,10] phenanthroline-2-yl) phenoxy) propyl) Fe ₃ O ₄ dimethoxysilanol) Diacetoxynickel(Iraq)
Student Olha Skurikhina -Urotropine-containing antibacterial nanocomposite materials and their physico-chemical properties(Ukraine)
Prof. Anatoliy Goltsev -Pre-treatment conditions determine the antitumor activity of nanoparticles(Ukraine)
Student Mariia Lupatsii -Nanocomposites with ornidazole – antibacterial and antiadhesive agents against gram positive and gram negative bacteria(Ukraine)
Dr. Mirela-Fernanda Zalatariov -In vitro cytotoxicity activity of novel copper(II) complexes with thiosemicarbazone derivatives(Romania)
PhD student Anna Grebinyk -Apoptosis induction in human leukemic cells with photoexcited C ₆₀ fullerene-doxorubicin conjugate(Ukraine)
Student Iryna Kovalchuk -1H NMR of gold nanoparticles in solution: influence of the reducing agent(Ukraine)
Dr. Liudmyla Sukhodub - Nanostructured polymer-apatite scaffolds for dental application: structure and properties. (Ukraine)
Prof. Abdurrahman Aktumsek -Antioxidant properties of water extracts from two Silene species: S.alba and S. italica(Turkey)
Dr. Fatih Dogan Koca - 1. Determination of Antimicrobial Activity of Ag NP and Ag@GO Nanocomposite Biosynthesized by Clove Extract 2. Synthesis and Characterizaiton of Metal-Metal Hybrid Nanoparticles Using Tilia Tomentosa Plant Extract With “Green Chemistry” and Investigation of Their Antibacterial Activities(Turkey)
Dr. Yurii Kot - The effect of cerium dioxide nanoparticles on the oxidative stress parameters in gamma-irradiated skin fibroblasts 3D-culture(Ukraine)
Dr. Iuliia Mukha -The role of pluronic F ₆₈ in AgAu/tryptophan system for stability and toxicity of bimetallic nanoparticles(Ukraine)
Prof. Zygmunt Gburski -The influence of lipide on vibrational mode of acetaminophen: computer simulation(Poland)

Section “Nanocomposites and nanomaterials”

PhD student Iryna Starko -The influence of La ₃₊ doping on the structure and properties of Ni _{0.5} Co _{0.5} Fe ₂ O ₄ synthesized by various methods(Ukraine)
Dr. Tetiana Tatarchuk - 1. Effect of Zn addition on structural, magnetic properties and antistructural modeling of Mg _{0.7-x} Zn _x Ni _{0.3} Fe ₂ O ₄ nano ferrites; 2. Time evolution of magnetic properties of MgFe ₂ O ₄ : Role of cation distribution(Ukraine)

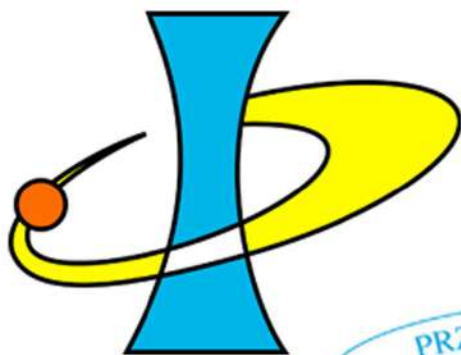
Section "Nanocomposites and nanomaterials"

Prof. Dora Zakarian -Theoretical and real ultimate strength of crystals(<i>Ukraine</i>)
PhD student Nataliya Zhdanyuk -Synthesis and characterization of organo-montmorillonite supported nZVI(<i>Ukraine</i>)
Dr. Viktor Kusnez ,CdS: Au nano-particles nanocomposite structural study(<i>Ukraine</i>)
PhD student Dmytro Vorontsov -Optical properties of CdTe/CdS QDs in different matrices(<i>Ukraine</i>)
Dr. Yuriy Barabash ,The method of analysis of the structural-dynamic properties of a natural objects using the example of Rhodobacter sphaeroides reaction centers(<i>Ukraine</i>)
Prof. Vasily Moiseenko - 1. Luminescent properties of opal - active dielectric nanocomposites, infiltrated by $C_6H_9EuO_6 \cdot xH_2O$ 2.Raman scattering in nanomaterials based on synthetic opals and active dielectrics K_2ZnCl_4 and $LiIO_3$ (<i>Ukraine</i>)
Dr. Maksym Barabash ,Sub-barrier mutual passage of two nanosized solitons in a uniaxial magnetic film with a strong magnetic anisotropy(<i>Ukraine</i>)
Dr. Liudmyla Filevska -Optical absorption and luminescence of nanoscale tin dioxide films prepared using polymers(<i>Ukraine</i>)
Dr. Dmytro Korablov -Novel Mg-based nanocomposites with enhanced hydrogen storage and generation properties(<i>Ukraine</i>)
Dr. Sergii Solopan -Core/shell architecture as an efficient tool to tune DC magnetic parameters and AC losses in spinel ferrite nanoparticles(<i>Ukraine</i>)
PhD student Eugene Kolyvoshko -Non-Arrhenius fluctuation model for lifetime prediction of carbyne-graphene nanoelements(<i>Ukraine</i>)
PhD student Olena Sanzhak -New photocatalytic materials prepared by low temperature ion implantation method(<i>Ukraine</i>)
Dr. Oleksandr Datsenko -New Defect Levels in InAs/In _{0.15} Ga _{0.85} As Quantum Dot Structure Detected by Thermally Stimulated Current Spectroscopy(<i>Ukraine</i>)
PhD student Maksym Kovalchuk -Nanostructurization in polymer/tin joint(<i>Ukraine</i>)
Oleh Molebnyi -Nanostructured complex ligatures for aluminum alloys(<i>Ukraine</i>)
Dr. Vitalii Honcharov -Nanoscale photocatalytic layers with titania on stainless steel foil(<i>Ukraine</i>)
Dr. Alla Tymchuk -Nanoscale complexes based on natural polymers as effective flocculants(<i>Ukraine</i>)
PhD student Nataliia Perlova -Nanoporous sorbents based on modified TiO ₂ for removal of U(VI) from aqueous solutions(<i>Ukraine</i>)
Prof. Myroslav Sanytsky -Nanomodified composites based on the extra rapid hardening Portland cement(<i>Ukraine</i>)
Dr. Liliya Batyuk -Nanodiamonds and their suspensions for medical and biological applications: A systematic review(<i>Ukraine</i>)
Dr. Oleg Lytvynenko -Nanocomposites of polymer with carbon nanotubes on silicon structures(<i>Ukraine</i>)
Prof. Oksana Nadтока -Nanocomposite Hydrogels Containing Silver Nanoparticles as Materials for Wound Dressings(<i>Ukraine</i>)
Dr. Nataliia Smyk -N,S-Heterocyclic Azoreagents as a modifying agents for improvement of carbon electrodes properties(<i>Ukraine</i>)
Prof. Olha Kosynska -Modeling of Fe ₈₀ B ₂₀ alloy crystallization process during quenching from the melt and heating the amorphous ribbons(<i>Ukraine</i>)
Dr. Tetiana Dontsova -Metaloxide nanomaterials for environmental applications(<i>Ukraine</i>)
Student Oleksii Syvolozhskiy -Magneto-transport properties of nanographite structures obtained by different methods(<i>Ukraine</i>)
Dr. Andriy Luchechko -Luminescence properties of Gd ₃ Ga ₅ O ₁₂ : Tb ₃₊ nanocrystals dispersed in a polymer matrix(<i>Ukraine</i>)
Prof. Ostapenko Nina -Low-temperature thermoluminescence of film and nanocomposites of silicon organic polymer(<i>Ukraine</i>)
Dr. Roman Rudenko -Low temperature charge transport in the hybrid PVDF-PANI-MWCNT nanocomposite(<i>Ukraine</i>)
Prof. Gennady Monastyrsky -Low frequency dependence of AC resistivity of green compacts of spark eroded particles(<i>Ukraine</i>)
Student Mariana Losiak -Light transmittance in cells with suspension of nanoparticles Pigment Red 176 under applied electric field(<i>Ukraine</i>)
PhD student Yevhenii Yarmoshchuk -Investigations of the structure of amorphous Fe-B-P-Nb-Cr alloys(<i>Ukraine</i>)
Prof. Alexandr Tovstolytkin -Interparticle interactions in polymer-nanoferrite composites and their manifestation in ferromagnetic resonance spectra(<i>Ukraine</i>)
Prof. Antonina Naumenko -Influence of Time Inversion and Spin-Orbit Interaction on Dispersion of Electronic States in Nanostructured and Crystalline Forms of Graphite and Transition Metal Dichalcogenides(<i>Ukraine</i>)
PhD student Irina Zagorulko -Influence of the method and regimes of the quenching from the liquid state on the microstructure of the Mg ₆₅ Cu ₂₅ Y ₁₀ alloy(<i>Ukraine</i>)
Dr. Oksana Linnik -Influence of nitrogen and metal ions co-doping on optical, structural and surface properties of modified titania films(<i>Ukraine</i>)
PhD student Sergiy Demchenkov -Influence of modulation period of Ni/Al nanolayered foils on phase transformations initiated by their heating(<i>Ukraine</i>)
PhD student Yuliia Kalashnyk -Influence of growing conditions on the characteristics of silicon nanowires(<i>Ukraine</i>)
Dr. Yulia Perets -Influence of addition filler's type on tunnel conductivity of carbon/polymer composites(<i>Ukraine</i>)
Dr. Olena Goncharuk -Influence of a modification method on structure and properties of aminopropylsilica(<i>Ukraine</i>)
Prof. Lyubov Kharkhalis -Indium Selenide – an Evolution of the Electronic and Dynamical Properties under Transition from Bulk Crystal to Monolayers(<i>Ukraine</i>)
Dr. Svitlana Zagorodnya -Inactivation of adenoviruses using titanium dioxide nanoparticles(<i>Ukraine</i>)
PhD student Yulia Polishchuk -Impact of subvalent impurities on optical and structural properties of zirconia-based nanomaterials(<i>Ukraine</i>)

Dr. Nataliya Kutsevol -Hybrid nanocomposites synthesized into stimuli responsible polymer matrices. Synthesis, characterization and application prospects(<i>Ukraine</i>)
Dr. Margarita Skiba -Green synthesis of silver nanoparticles and composite materials for drinking water disinfection(<i>Ukraine</i>)
Prof. Tetyana Sergeyeva -Fluorescent sensor systems for zearalenone and aflatoxin B1 detection based on nanostructured polymer membranes(<i>Ukraine</i>)
PhD student Olha Masiuchok -Filament based on functional polymer nanocomposite for additive technologies(<i>Ukraine</i>)
Student Anastasia Tymchenko -Features of the surface of SnO ₂ nanostructures(<i>Ukraine</i>)
Dr. Anton Lytvynenko -Evaluation of catalytic activity of Pd nanocomposites by hydrogenation of imidazo[1,5-a]pyridines under mild conditions(<i>Ukraine</i>)
PhD student Maria Sayfutdinova -Epoxy-silica composite materials by sol-gel: formation and properties(<i>Ukraine</i>)
Prof. Sergey Lapshyn -Electrotechnical complex for production of nanostructured and ultradisperse materials by means of volumetric electrosark erosion(<i>Ukraine</i>)
Dr. Sergey Prokopenko -Electrophysical properties of polymeric nanocomposites based on cobalt ferrite and nikel ferrite modified with copper iodide(<i>Ukraine</i>)
PhD student Artem Shylo -Electrophysical phenomena in the system of sealed nanoparticles based on zirconia under impact of external influences of electromagnetic nature(<i>Ukraine</i>)
Dr. Halina Mykhailova -Electron irradiation of carbon nanotubes(<i>Ukraine</i>)
Dr. Nataliia Smirnova -Electrocatalytic investigation of Pt/TiO ₂ and N/Pt/TiO ₂ electrodes synthesized by sol-gel method(<i>Ukraine</i>)
Dr. Irina V. Gavrilchenko -Electrical and luminescence properties of Freestanding Porous SiC(<i>Ukraine</i>)
PhD student Maksym Zahornyi -Elastic and thermodynamic properties of the GeA ₂ O ₄ (B = Mg, Zn and Cd) cubic spinels: an ab initio study(<i>Ukraine</i>)
Dr. Volodymyr Bezrodnyi -Effects of silicon dioxide on the properties of dye-doped aromatic polyurethane nanocomposites(<i>Ukraine</i>)
Dr. Liliya Frolova -Effect of pH on the magnetic properties of magnetite obtained by the plasma method(<i>Ukraine</i>)
Prof. Sergiy Revo -Effect of expanded graphite particle size on the physical properties of compacted powders(<i>Ukraine</i>)
Dr. Olena Voitsihovska -Effect of electron irradiation on the electrical conductivity of chemically reduced graphene oxide(<i>Ukraine</i>)
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Prof. Ihor Kobasa -Designing of new photocatalytic systems based on the nanodispersed TiO ₂ and a polymethine dye-sensitizer(<i>Ukraine</i>)
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Dr. Vira Nesprava -5CB liquid crystal phase transitions in the nanocomposites with inorganic particles of different nature(<i>Ukraine</i>)
PhD student Olena Sachuk - 1. The study of reduce CeO ₂ -MoO ₃ system modified by mechanochemical and ultrasonic methods 2. The influence of mechanochemical treatment on the properties of CeO ₂ -MoO ₃ system 3. The study of ultrasonic treatment influence on the properties of ZnO-MoO ₃ system(<i>Ukraine</i>)
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Dr. Bohdan Stasyuk, Effective elastic properties of 3D nanocomposites reinforced by short-fiber with Gurtin-Murdoch model of interphase (<i>Ukraine</i>)
PhD student Galina Saenko- 1. Effect of pressure treatment on the process of cleaning the amorphous phase from frozen-in crystallisation centers; 2. Model of nanostructural metal forms formation on the surface of the thermoexfoliated and disperse graphite;(<i>Ukraine</i>)
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