

Program of 5rd International research and practice conference

“Nanotechnology and Nanomaterials” (NANO-2017)

August 23-26, 2017, Conference Hall of Y. Fedkovych National University of Chernivtsi

ORAL SESSION

Wednesday, 23.08.2017

9.00-17.00	Registration
10.00-10.03	Welcome greetings of Oleksandr Fishchuk , Head of Chernivtsi Regional State Administration
10.03-10.06	Welcome greetings of Prof. Stepan Melnychuk , Rector of Y. Fedkovich National University of Chernivtsi
10.06-10.08	Welcome greetings of Academician A.G. Naumovets , Vice-President of NASU
10.08-10.10	The opening speech of Academician L.P. Yatsenko , Director of Institute of Physics, NASU
10.10-10.13	Introduction speech from Prof. Henryk Sobczuk , Director of Representative of PAN in Kyiv
10.13-10.15	Introduction speech from Dr. Olena Fesenko , Head of Technology Transfer, Innovations and Intellectual property Department, Institute of Physics, NASU
	Plenary Section (Prof. P. Fochuk, Vice-Rector of Chernivtsi National University)
10.15-10.35	Prof. Mohamed Bououdina - Nanostructured Materials for Wastewater Treatment (<i>Bahrain</i>)
10.35-10.55	Prof. Wojciech Macyk - Design of photocatalysts for reduction of small molecules (<i>Poland</i>)
10.55-11.15	Prof. Vadym Mochalin – Nanodiamond and MXenes – nanomaterials for composites, biomedical, and energy applications (<i>USA</i>)
11.15-11.35	Dr. Ihor Brazhnyk – Advanced materials engineering within a software-defined nanotechnology: the concept and implementation (<i>Switzerland</i>)
11.35-11.55	Dr. Nataliya Storozylova - New potential nanotechnology-based therapies for the treatment of rheumatoid arthritis (<i>Spain/Ukraine</i>)
11.55-12.15	Coffee break and Conference photo
	Section “Nanocomposites and nanomaterials” (Prof. I. Zavaliv)
12.15-12.30	Prof. Sergiy Kotrechko - Life time and stability of carbyne (<i>Ukraine</i>)
12.30-12.45	Prof. Alexander Fainleib - Structure-properties relationships for nanoporous polycyanurates and their nanocomposites (<i>Ukraine</i>)
12.45-13.00	Dr. Milan Timko - Magnetic fluids for electrical engineering applications (<i>Slovakia</i>)
13.00-13.15	Prof. Fernand Marquis – Carbon nanotube and graphene hybrid materials systems for multifunctional applications (<i>USA</i>)
13.15-13.30	Prof. Peter Kopcansky - Ferronematics- nanofluids based on liquid crystals and magnetic nanoparticles (<i>Slovakia</i>)
13.30-13.45	Dr. Andriy Kadashchuk - Effective Medium approximation model of electrical conductivity in chemically-derived graphene nanoflake films (<i>Ukraine</i>)
13.45-14.00	Dr. Przemyslaw Raczynski - Interactions between carbon-based nanostructures and biomembranes – computer simulations study (<i>Poland</i>)
14.00-15.00	Break and Excursion to Chernivtsi National University
	Section “Nanoscale physics” (Prof. S. Bellucci)
15.15-15.30	Prof. Dorota Kolodynska - SiO ₂ coated by TiO ₂ as an effective sorbent for metal ions (<i>Poland</i>)
15.30-15.45	Dr. Yuriy Khalavka - Tuning the quantum dots optical properties (<i>Ukraine</i>)
15.45-16.00	Prof. Mykhailo Valakh - Diagnostic Aspects of Raman Spectroscopy in the Physics of Semiconductor Quantum-Sized Nanostructures (<i>Ukraine</i>)
16.00-16.15	Prof. Alexander Gabovich - Tunnel current in junctions involving disordered d-wave superconductors with charge density waves (<i>Ukraine</i>)
16.15-16.30	Fatih Dogan Koca – Genotoxic and cytotoxic activity of Green synthesized TiO ₂ nanoparticles (<i>Turkey</i>)
16.30-16.45	Coffee break
	Section “Nanoplasmonics and surface enhanced spectroscopy” (Prof. M. Valakh)
16.45-17.00	Dr. Olena Fesenko - Raman and Luminescent spectra of Coumarin 152A enhanced by silver nanoparticles (<i>Ukraine</i>)
17.00-17.15	Prof. Eugeniusz Szeregi - Surface Plasmon Resonance and Oscillation Spectroscopy for Cancer Diagnostics (<i>Poland</i>)
17.15-17.30	Dr. Volodymyr Chegel - Smart nanocarriers" for drug delivery: application of photothermal plasmonic enhancement (<i>Ukraine</i>)
17.30-17.45	Dr. Hanna Bandarenka - SERS-activity of porous silicon coated with nanostructures of noble metals (<i>Belarus</i>)
17.45-18.00	Dr. Maksym Stetsenko - Registration amplitude and phase anisotropy of Zeolite layers on different substrates by modulation polarimetry for sensors application (<i>Ukraine</i>)
18.00-18.15	Dr. Olena Fesenko - EEN (COSME)
18.15-18.30	Dr. Nikolay Ushakov - HORIZON2020
18.30-19.00	Concert

15.00-20.00 Poster Session**Thursday, 24.08.2017****Section "Nanochemistry and nanobiotechnology, and Nanoobjects" (Dr. N. Storozylova)**

- 09.00-09.15 **PhD. Ewa Czechowska** - Determination of the surface coverage of gold nanoparticles with antioxidant enzyme – catalase based on electrophoretic method (*Poland*)
09.15-09.30 **PhD. Karolina Fila** - Synthesis of mesoporous polymeric microspheres methacrylic derivatives of aromatic thiols (*Poland*)
09.30-09.45 **Dr. Anna Shestopalova** - Some general aspects of molecular recognition: protein-DNA complexes
09.45-10.00 **PhD. Ihor Starchenko** - Interaction energy of self-interstitial atoms with grain boundaries in tungsten
10.00-10.15 **PhD. Natalia Rusinchuk** - The possible mechanism of antiviral and antimicrobial action of nanoparticles (*Ukraine*)
10.15-10.30 **Prof. Ludmila Badismanova (Ye.O. Konotop)** - Use of metal nanoparticles as polymicrofertilizer for increasing soybean productivity (*Ukraine*)

10.30-10.45 Coffee Break**Section "Nanostructured surfaces" (Prof. G. Telbiz)**

- 10.45-11.00 **Dr. Andrii Goriachko** - Subtle long-range nanostructuring of the Au/Ru(0001) surface (*Ukraine*)
11.00-11.15 **Dr. Viktor Petrenko** - Incorporation of water into citrate shell of AuNP assemblies by neutron reflectometry (*Ukraine*)
11.15-11.30 **Prof. Viktor Karachevtsev** - Graphene induced molecular flattening of neutral and cationic porphyrins (*Ukraine*)
11.30-11.45 **Prof. Georgiy Levchenko** - Temperature and pressure influence on spin transition in Hofmann –like 3D polymer Fe(pz)[Pt(CN)₄] (*Ukraine*)
11.45-12.00 **Dr. Bohdan Mordyuk** - Mechanical nanostructuring the surface layers of metallic materials using ultrasonic impact treatment (*Ukraine*)

Section "Nanoscale physics" (Dr. P. Raczyński)

- 12.00-12.15 **Prof. Alexander Kasatkin** - RF-electrodynamics of nanostructured high-Tc superconductors (*Ukraine*)
12.15-12.30 **Prof. Wojciech Szuszkiwicz** - MBE-grown wurtzite GaAs-(Ga,Al)As-Ga(As,Bi) core-shell nanowires: structure and optical properties (*Poland*)
12.30-12.45 **PhD. Jan Zareba** - Study on morphology, luminescence, and dielectric properties of nanoscale lanthanide phosphonates (*Poland*)
12.45-13.00 **Prof. Smirnova T.N.** - Optical nonlinearity in polymer nanocomposites with a random and ordered distribution of silver nanoparticles (*Ukraine*)

13.00-14.00 Break and Opening of Innovative Picnic**Section "Nanocomposites and nanomaterials" (Prof. V. Mochalin)**

- 14.00-14.15 **Dr. Agnieszka Gladysz-Plaska** - Sorption of uranium on nanobiosorbents (*Poland*)
14.15-14.30 **Dr. Oleksandr Oberemok** - Formation of vanadium oxide films with a high resistance temperature coefficient by oxygen ion implantation (*Ukraine*)
14.30-14.45 **Prof. Gertruda Klimusheva** - Nonlinear optical properties of metal alkanoate composites with hybrid core/shell nanoparticles (*Ukraine*)
14.45-15.00 **Prof. Olena Shembel (Dr. A. Markevych)** - Nano materials for electrodes, non-destructive methods for testing, and new technologies ensure high energy, long time storage and wide operating range of temperature for Li- FS₂ batteries (*Ukraine*)
15.00-15.15 **PhD. Kaja Spilarewicz – Stanek** - Graphene oxide, reduced graphene oxide and their application in photocatalysis (*Poland*)
15.15-15.30 **Dr. Kostiantyn Shportko** - Compositional dependencies in the vibrational properties of amorphous Ge-Sb-Te phase-change chalcogenide alloys (*Ukraine*)
15.30-15.45 **Dr. Lyudmyla Karabanova** - Interfacial Interactions in the Nanocomposites Based on Polyurethane and Functionalized Multi-Walled Carbonanotubes (*Ukraine*)
15.45-16.00 **PhD. Ewelina Mackiewicz** - Functional materials based on silver nanowires (*Poland*)
16.00-16.15 **Dr. Olena Lavrynenko** - Specificity of Core & Shell Type Nanocomposite Formation under the Rotation-Corrosion Dispergation Conditions (*Ukraine*)
16.15-16.30 **PhD. Joanna Ginter** - Enhanced visible light photoactivity of TiO₂ photonic crystals modified with silver and platinum nanoparticles (*Poland*)

16.30-16.45 Coffee break**Section "Physico-Chemical nanomaterials" (Prof. S. Nedliko)**

- 16.45-17.00 **Prof. Stefano Bellucci** - Ratchet effect on patterned graphene for ballistic nano-detectors applications (*Italy*)
17.00-17.15 **Prof. Nadir Bouarissa** - Energy levels and optical properties of CdSe spherical quantum dots (*Algeria*)
17.15-17.30 **Prof. Mohammad Reza Naimi-Jamal** - Nano Metal-Organic Framework Cu₂(BDC)₂(DABCO) as Efficient Catalysis for Three Component Synthesis of Imidazoles (*Iran*)
17.30-17.45 **Dr. Maksym Iurzhenko** - Nanoscale effects in the welded joints of plastics (*Ukraine*)
17.45-18.00 **PhD. Valeria Sliesarenko** - Composites of membranes and silica adsorbents for heavy metal ions removal from water (*Ukraine*)
18.00-18.15 **PhD. Izabela Kondratowicz** - Oxygen-plasma treatment of reduced graphene oxide for enhanced

absorption properties (*Poland*)

11.00-19.00 **Poster session**

20.00-21.00 **Conference diner**

Friday, 25.08.2017

Section "Nanooptics and photonics" (Prof. L. Yatsenko)

09.00-09.15 **Prof. Leonid Vasylechko** - Coupling of electronic, magnetic and lattice degrees of freedom in $\text{RCO}_{1-x}\text{Fe}_x\text{O}_3$ cobaltites-ferrites (*Ukraine*)

09.15-09.30 **Dr. Svitlana Bugaychuk** - Emerging optical extreme events at light-matter coupling in multi-channel hybrid liquid crystal cell (*Ukraine*)

09.30-09.45 **Dr. Oksana Chukova** - Spectroscopy of the Sm^{3+} ions in vanadate nanoparticles with various crystal lattice structures (*Ukraine*)

09.45-10.00 **Dr. Oleg Dimitriev** - Disorder in P₃HT aggregates (*Ukraine*)

10.00-10.15 **Prof. Oleksandr Kucherov** - The electron trajectory shifting effect (*Ukraine*)

10.15-10.30 **Dr. Andriy Chernyuk** - The nature and different behavior of the outer and inner exciton rings of luminescence in semiconductor quantum wells (*Ukraine*)

10.30-10.45 **Dr. Lyudmyla Borkovska** - Peculiarities of luminescence properties of Ag- and Cu-doped nanocrystals (*Ukraine*)

10.45-11.00 **Dr. Volodymyr Gnatovsky** - Fine light patterning controlled via cross-correlation technique (*Ukraine*)

11.00-11.15 **Coffee break**

Section "Nanochemistry and nanobiotechnology" (Prof. L. Badsmanova)

11.15-11.30 **Prof. Valeriy Yashchuk (Anna Grebinyk)** - Berberine Anticancer Activity through Nanocomplex with DNA and Metalic Nanoparticles (*Germany*)

11.30-11.45 **PhD. Marta Goliszek** - Synthesis and pore structure characterization of polymeric microspheres with lignin (*Poland*)

11.45-12.00 **Dr. Nataliya Finiuk** - Capacity of novel DMAEM-containing polymeric carriers for delivery of foreign genes into plant cells (*Ukraine*)

12.00-12.15 **Dr. Olena Kyzyma** - Fullerene water solutions for the treatment of cancer and neurodegenerative diseases (*Ukraine*)

12.15-12.30 **Dr. Nataliya Kutsevol** - New hybrid nanocomposites for antitumor therapy (*Ukraine*)

12.30-12.45 **PhD. Janka Porubska** - Synthesis of Silver and Gold Nanoparticles with Natural Polyphenols Isolated from Elderberry Fruits (*Slovakia*)

12.45-13.00 **Dr. Gelena Pruntseva** - Nanotechnology in agriculture production (*Ukraine*)

13.00-14.00 **Break and Excursion to Chernivtsi National University**

Section "Nanocomposites and nanomaterials" (Dr. P. Kopcansky)

14.00-14.15 **PhD. Sergii Yatsukhnenko** - Impedance of boron and nickel doped silicon micro and nanostructures (*Ukraine*)

14.15-14.30 **Dr. Oleg Shevchuk** - Nanocomposite hydrogels filled with mineral nanoparticles (*Ukraine*)

14.30-14.45 **Prof. Ihor Zavalij** - Hydrogenation properties of nanopowders of transition metals and alloys (*Ukraine*)

14.45-15.00 **PhD. Justyna Bak** - Application of nanobiochar for removal of rare earth elements (*Poland*)

15.00-15.15 **PhD. Serhii Kovalchuk** – Bulk spin wave scattering on s spin lens in three-layer uniaxial ferromagnet with non-ideal boundaries in external magnetic field (*Ukraine*)

15.15-15.30 **Prof. Serhii Nedilko** - “Polymer-oxide” micro/nano-composites: background and promises (*Ukraine*)

Section "Physico-Chemical nanomaterials" (Dr. A. Shestopalova)

15.30-15.45 **Dr. Sergii Snegir** - Diarylethene photochromic molecules in design of downscaled contact electrodes made of Au nanoparticle assemblies (*Ukraine*)

15.45-16.00 **Dr. Larysa Khomenkova** - Formation and thermal stability of $\text{Ge}_x\text{Hf}_{1-x}\text{O}_2$ solid solutions (*Ukraine*)

16.00-16.15 **Dr. Daniil Bograchev** - Electrodes based in carbon nanomaterials: structure, properties and application to capacitive deionization in static cell (*Russia*)

16.15-16.30 **PhD. Yulia Shlapa** - The properties of $\text{La}_{1-x}\text{Sr}_x\text{MnO}_3$ manganite nanoparticles synthesized by the precipitation from microemulsions (*Ukraine*)

16.30-16.45 **Coffee break**

Section "Nanoscale physics" (Prof. T. Smirnova)

16.45-17.00 **Dr. Roman Holomb** - Modelling and first-principles calculation of low frequency quasi-localized vibrations of soft and rigid As-S nanoclusters (*Ukraine*)

17.00-17.15 **PhD. Marta Choluj** - On the importance of theoretical studies of the spatially confined atomic and molecular systems (*Poland*)

17.15-17.30 **Prof. Yurii Pashkevich** - Magnetic resonance properties of nano scale cobalt based layered double hydroxides (*Ukraine*)

17.30-17.45 **Prof. Karina Lamonova** - Impact of spinel $\text{MgAl}_2\text{O}_4 : \text{Sm}$ nanoparticles size on optical spectra (*Ukraine*)

17.45-18.00 **Prof. Ali Sinaq and Bilge Selva** - Catalytic Applications Of Metal Oxide (TiO_2 And ZnO) Nano Particles On Cellulose Pyrolysis (*Turkey*)

18.00-18.15 **Dr. Oleksandr Semchuk** - The theory of absorption and emission of light by free electrons in semiconductors (*Ukraine*)

18.15-18.30 **PhD. Oleksandr Hreshchuk** - Experiment and modeling of “star-like” plasmonic nanostructures for SERS application (*Ukraine*)

11.00-19.00 Poster session

Saturday, 26.08.2017

09.00-13.00 Poster session

Section “Nanocomposites and nanomaterials” (Prof. M.Bououdina)

09.00-09.15 **Dr. Olena Tartakivska** - Spin waves in micromagnetic rings (*Ukraine*)

09.15-09.30 **Prof. Aleksandr Sipatov** - Growth and stability of chalcogenide semiconductor nanostructures (*Ukraine*)

09.30-09.45 **Dr. Ahmet Demir** - Channel Length Modulation in Organic Field Effect Transistor with a Polystyrene Insulator using a PEDOT:PSS Composite Electrode (*Turkey*)

09.45-10.00 **Prof. Leonid Sukhodub** - Alginate-Hydroxyapatite nanostructured composites for drug release (*Ukraine*)

10.00-10.15 **Dr Anton Lytvynenko** - Ag nanofoam as electrocatalyst for organic halides reduction (*Ukraine*)

10.15-10.30 **Dr. Mykhailo Derhachov** - Features of opal-based nanocomposites fabrication (*Ukraine*)

10.30-10.45 **Dr. Volodymyr Sohatsky** - Composite structures with ferromagnetic and piezoelectric properties (*Ukraine*)

10.45-11.00 **Dr. Olga Kolomoiets (Dr. Yulia Polishchuk)** - High energy Li batteries with solid polymer electrolyte and cathode based on the spinel LiMn_2O_4 (*Ukraine*)

11.00-11.15 **Dr. Ihor Sagalianov** - Synergistic enhancement of the electrical and thermal conductivity in the ternary composites (*Ukraine*)

11.15-11.30 Coffee break

Section “Nanostructured surfaces” (Dr. A. Goriachko)

11.30-11.45 **Prof. German Telbiz** - Tuning the structure of 2D and 3D sol-gel titania nanohybrids by careful anion doping (*Ukraine*)

11.45-12.00 **Dr. Yaroslav Kyryliv** - Gradient Nanocrystalline Structure Formation Using Vibration-Centrifugal Hardening (*Ukraine*)

12.00-12.15 **Prof. Vyacheslav Beresnev** - Multilayer coatings based on nitrides of refractory alloys with nanometer thickness (*Ukraine*)

12.15-12.30 **Dr. Andrew Stetsko** - The nanocomposite diffusion coating prepared of Bording (*Ukraine*)

12.30-12.45 **Dr. Eugene Bortchagovsky** - Ellipsometry of nanostructures on a surface. (*Ukraine*)

12.45-13.00 **Dr. Oleg Mishchuk** - Resonant electron emission within moveable energy-range from changeable interfaces: Soliton-like nanoreality (*Ukraine*)

13.00-13.30 Closing ceremony

13.30-19.00 Excursion

Wednesday, 23.08.2017

Section “Nanoplasmonics and surface enhanced spectroscopy”

1. Dr. Gennadiy Beketov - SERS spectroscopy using propagating surface plasmons: a new experimental approach (Ukraine)
2. Dr. Praskoviya Boltovets - Flower-shaped gold nanoparticles: synthesis, characterization by surface enhanced infrared absorption spectroscopy (SEIRA) and their application as potent antivirus nanocarriers (Ukraine)
3. Dr. Viktor Danko - Control of plasmons excitation by P- and S-polarized light on Au nanowire gratings by azimuthal angle variation (Ukraine)
4. Dr. Yurii Demydenko - Internal reflection of the surface of a plasmonic substrate covered by active nanoparticles (Ukraine)
5. Dr. Janna Douda - Surface Enhanced Raman Scattering of Quantum Dots on Liposome encapsulation (Mexico)
6. Siim Heinsalu - Raman scattering from organic molecules deposited on the noble metal nanoparticles and graphene (Estonia)
7. Oleksandr Hreshchuk - Efficient interferential photolithographic method of SERS substrates production (Ukraine)
8. Svitlana Ilchenko - Nonlinear properties of plasmon-waveguide modes in resonant multilayer structure (Ukraine)
9. Prof. Iryna Ivanenko - Perspectives applications of nanodispersed chalcogenides of transition metals in photocatalysis (Ukraine)
10. Alina Ivanova-Tolpintseva - Plasmon induced synthesis of silver nanoparticles (Ukraine)
11. Dr. Egor Kaniukov - Shape-Controlled Synthesis of Gold Nanostructures in Pores of a SiO₂ Template (Belarus)
12. Dr. Sergii Mamykin - Electrolytically deposited Au nanoparticles for solar cell efficiency enhancement (Ukraine)
13. Prof. Anatoliy Yaremko - Spectroscopy of molecules on the crystal surface: many particles approach and experiment (Ukraine)

Section “Nanoscale physics”

14. Prof. Muslum Arici - An investigation on photovoltaic panel coupled with nanoparticle-enhanced phase change material (Turkey)
15. Dr. Maksym Barabash - Quantum dynamics of a pair of interacting vertical Bloch lines in a domain wall of stripe domain in uniaxial ferromagnetic film (Ukraine)
16. Natalya Bondarenko - The impurity effect at the cubic iron nanocluster growth (Ukraine)
17. Dr. Niikolay Bondar - Electronic excitation energy transfer in arrays of CdS quantum dot on the spherical surface (Ukraine)
18. Pavlo Borysenko - High-frequency dynamics of Abrikosov vortices in nanostructured superconductors (Ukraine)
19. Prof. Yurii Dzhezherya - Sharp-pointed susceptibility of ferromagnetic films with inhomogeneous in thickness magnetic anisotropy (Ukraine)
20. Prof. Volodymyr Fitio - Plasmon resonance in the periodic square nanowires on dielectric substrates (Ukraine)
21. Nina Gamayunova - Andreev Reflection Investigation of FeSe by Soft Point-Contact Spectroscopy (Ukraine)
22. Prof. Zygmont Gburski - The dynamics of water clusters embedded in phospholipid reverse micelles (Poland)
23. Prof. Zygmont Gburski - Interaction-induced light scattering in thin neon film confined between graphite slabs: MD study (Poland)
24. Prof. Vyacheslav Gorshkov - Numerical Modeling the Rayleigh Instability of Ultrathin Metal Nanorods (Ukraine)
25. Dr. Andrii Korostil - Features of spin-orbit-induced dynamics in magnetic nanofilms (Ukraine)
26. Olha Kovalenko - Electrochemical Spiropyran-Merocyanine isomerization (Ukraine)
27. Prof. Mykola Krupa - Field-driven orientation ordering in nematic liquid-crystal films (Ukraine)
28. Prof. Oleksandr Kucherov - The electron trajectory shifting effect (Ukraine)
29. Dr. Anatolii Kurchak - Temperature behavior of the conductance in the nano-structure "graphene channel - ferroelectric substrate with domain walls" (Ukraine)
30. Maryna Lazorenko - Effects of external magnetic field, uniaxial strain, and impurities on electronic states in graphene sheet (Ukraine)
31. Nikita Liedienov - Nanostructural clustering, structure defects and magnetic properties of the magnetoresistance La_{0.6}Sr_{0.15}Bi_{0.15}Mn_{1.1-x}Ni_xO_{3-δ} ceramics (Ukraine)
32. Dr. Yurij Lyashenko - The effective diffusivity in nanostructured two-phase systems: effective medium approximations and Lattice Monte Carlo method (Ukraine)
33. Olga Mazur - Effect of a high-frequency electric field on the ferroelectric nanoscale domain structure formation upon second order phase transition (Ukraine)
34. Dr. Natalia Medvid - The effect of the Fermi velocity on the conductance of the graphene - insulator - d-wave superconductive graphene junction (Ukraine)
35. Dr. Evgen Melezik - Dynamical dielectric function of 2DEG in HgTe-based systems in random phase approximation formalism (Ukraine)
36. Dr. Amina Merzougui - Influence of the interface states in MOS structures: Analysis of Capacitances-Voltage

37. Prof. Volodymyr Mitsa - Influence of cooling and heating rate on low temperature thermal conductivity of g-Ge₂S₃ (Ukraine)
38. Dr. Antonina Naumenko - Analytical Calculations of Normal Vibration Forms and Their Dispersion with Using of Projective Representations of Symmetry Groups for Carbon Nanotubes (Ukraine)
39. Dr. Andrii Naumov - Effect of structural strains on phonon spectra in AlN/GaN heterostructures with multiple quantum wells (Ukraine)
40. Dr. Anatoliy Nedolya - On the possibility to control an interstitial atom's motion using substitutional atom in cubic iron nanocluster (Ukraine)
41. Dr. Viktor Nikolaenko - Transport of Q1D electrons over superfluid helium in potential wells with linearly charged substrate. (Ukraine)
42. Semyon Ponomaryov - The role of bulk and surface diffusion in the process of nucleation, evolution, and growth of the GeSi/Si nanoislands (Ukraine)
43. Prof. Olena Rogachova - Quantum oscillations in thickness dependences of transport properties of topological insulator Bi₂Se₃ thin films (Ukraine)
44. Anastas Romansky - Quantum mechanical calculations of the calcium apatites structure and properties (Ukraine)
45. Dr. Nadiia Safriuk - XRD study of GaN nanowire coalescence (Ukraine)
46. Dr. Dariya Savchenko - Raman and EPR spectroscopic studies of chromium-doped diamond-like carbon films (Ukraine)
47. Stepan Savka - Molecular dynamics simulations of the oxidation of zinc nanoclusters (Ukraine)
48. Prof. Julia Seti - Spectrum of electron in quantum well with continuous position-dependent effective mass (Ukraine)
49. Prof. Julia Seti - New complex states in the system of one-level localized quasi-particles interacting with polarization phonons at T≠0K (Ukraine)
50. Dr. Volodymyr Shaternik - Four-terminal superconducting heterostructures with hybrid semiconducting barriers and their properties (Ukraine)
51. Dr. Andrii Shapovalov - Structural and transport characteristics of superconducting MoRe-Si(W)-MoRe junctions (Ukraine)
52. Prof. Eugeniusz Szeregi - HgCdTE alloys as Natural 3D analog of Graphene (Poland)
53. Dr. Yaroslav Syrotyuk - Nanoscale mechanism of rare-earth doping in chalcogenide glass: an insight from free-volume tracing with annihilating positrons (Ukraine)
54. Olga Sulymenko - High-power AFM based Spin Hall nano-oscillator (Ukraine)
55. Dr. Stepan Syrotyuk - Effect of quasiparticle excitations of strongly correlated d states on the electronic structure of the crystal CrAs (Ukraine)
56. Dr. Stepan Syrotyuk - The spin-resolved electronic energy bands of the CdMnTe solid solution evaluated with the hybrid exchange-correlation functional
57. Dr. Stepan Syrotyuk - The first excitonic absorption peak in the cubic KMgF₃ crystal derived from Bethe-Salpeter equation
58. Dr. Stepan Syrotyuk - The absorption spectrum in the crystals LiCl, NaCl, KCl and RbCl evaluated within the quasiparticle and excitonic approach (Ukraine)
59. Prof. Wojciech Szuszkiewicz - Mechanical Properties of MBE-Grown Metal Telluride Layers (Poland)
60. Prof. Georgiy Tarasov - Spectroscopy of intra-manifold transitions of Er³⁺ ions in erbium-stabilized nanocrystalline zirconium (Ukraine)
61. Prof. Georgiy Tarasov - Peculiarities of carrier relaxation through high excited states of semimagnetic CdMgTe/CdMnTe heterostructures (Ukraine)
62. Dr. Vira Tkachenko - Spin wave dynamics in solid nanowire of circular cross section in crossover dipolar-exchange regime (Ukraine)
63. Daria Troshchenko - The noise influence on the materials fragmentation modes at severe plastic deformation (Ukraine)
64. Dr. Vadym Tsvitkovsky - Escape of Abrikosov vortices in current-loaded nanostructured superconductors with extended 1D columnar defects (Ukraine)
65. Dr. Oksana Yastrubchak - Ferromagnetism and band structure engineering in the (Ga,Mn)As, Ga(Bi,As) and (Ga,Mn)(Bi,As) nanolayers (Ukraine)
66. Sergii Volkov – DNA double helix deformations at the nanoscale (Ukraine)

Section “Nanostructured surfaces”

67. Prof. Olena Aksimentyeva - Structure and optical properties of pentacene nanofilms obtained on glass/ITO by thermal evaporation and laser ablation method (Ukraine)
68. Dr. Olga Ananina - Quantum-chemical modeling of the diamond surface reactive ion etching in gas mixtures containing fluorine atoms (Ukraine)
69. Dr. Maksym Barabash - Spectroscopy of thin copper layers on glass substrate with luminescence (Ukraine)
70. Dr. Maksym Barabash - Amorphous carbon on thin copper layer (Ukraine)

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71. Dr. Liliya Batyuk - Investigation of dielectric properties of the erythrocyte membranes as nanolayered surfaces (Ukraine)
 72. Dr. Tetyana Budnyak - Synthesis, characterization and application of glutaraldehyde-crosslinked chitosan-silica cryogels (Ukraine)
 73. Dr. Oksana Dobrovetska - Deposition of the nanostructured metals on an aluminum and silicon by galvanic replacement (Ukraine)
 74. Prof. Anatoliy Evtukh - Influence of Si nanowires on solar cell properties (Ukraine)
 75. Dr. Olena Fitsych - Transmittance of the chemically nanostructured protective cover of photovoltaic cell study at STC (Ukraine)
 76. Dr. Ivan Gab - Annealing influence on dispersion kinetics of titanium and zirconium nanofilms deposited onto oxide materials (Ukraine)
 77. Ruslan Gerasymov - The formation of nanoporous TiO₂ surface area during anodizing of Ti-foil (Ukraine)
 78. Dr. Liudmyla Karachevtseva - Effective lifetime of minority carriers in black silicon nano-textured by cones and pyramids (Ukraine)
 79. Ann Karakurkchi - Effect of doping metals on the structure of PEO coatings on Ti (Ukraine)
 80. Prof. Bohdan Koman - Mechanical and thermodynamic parameters in Si - metal structures for micro- and nano-electronics (Ukraine)
 81. Dr. Oleksandr Kondrat - Surface XPS and UPS investigation of in situ prepared As_xSe_{100-x} nanolayers and their modification under external influence (Ukraine)
 82. Izabela Kondratowicz – Oxygen-plasma treatment of reduced graphene oxide for enhanced absorption properties (Poland)
 83. Liudmyla Kostenko - Magnetic nanocomposite with grafted N-aminomethylene-phosphonic groups as a preconcentration phase of metal ions (Ukraine)
 84. Maksym Kovalchuk - Nanostructuring of different types of polyethylene in their compatible welded joints (Ukraine)
 85. Dr. Ivanna Kruglenko - Adsorption properties of BSA-based nanostructured films (Ukraine)
 86. Dr. Semen Kruskovskyi - Formation of nanoscale InAs objects on the surface of GaAs during rapid cooling of substrate by LPE (Ukraine)
 87. Dr. Alexandre Kuprin - Structure and nanomechanical properties of deuterium-implanted monocrystalline silicon (Ukraine)
 88. Dr. Alla Kuryliuk - Influence of polymer nanocomposite coatings on recombination processes in silicon space photovoltaic cells (Ukraine)
 89. Dr. Vladyslav Lisnyak - Soft Fluorinated activated carbons: synthesis and electrochemical properties as supercapacitor electrode (Ukraine)
 90. Dr. Vladyslav Lisnyak - Modelling the reactivity of carbon materials: oxidation and bromination (Ukraine)
 91. Bozhena Liniova - Effect of lamination on the microstructural properties of Li_{1.3}Al_{0.3}Ti_{1.7}(PO₄)₃ thick films (Ukraine)
 92. Bozhena Liniova - Processing of thin films of organic-inorganic perovskites CH₃NH₃PbI₃ with control of microstructure (Ukraine)
 93. Yaroslava Lopatina - Formation of disulfide bonds in alkyldithiol monolayers: STM study and DFT modelization (Ukraine)
 94. Dr. Iryna Makeeva - Formation of the nanostructured surface layer of the Co-Cr-Mo alloy by the high-energy processing (Ukraine)
 95. Olha Maksymiv - Wear resistance of the surface nanocrystalline structure under an action of aggressive medium (Ukraine)
 96. Dr. Halyna Malanych - Peculiarities of nanosized relief formation on the PbTe and Pb_{1-x}Sn_xTe substrates during chemical-mechanical polishing with H₂O₂ – HBr – organic solvent etchants (Ukraine)
 97. Olga Mordiuk - Microstructure and corrosion resistance of biomedical Ti₆Al₄V alloy modified by complex ultrasonic impact treatment (Ukraine)
 98. Dr. Oleksandr Morozov - Influence of the deuterium ion irradiation on Ni magnetic properties and structure (Ukraine)
 99. Dr. Oleksandr Morozov - Temperature range of helium retention from austenitic stainless steel implanted helium at RT (Ukraine)
 100. Dr. Stepan Nichkalo - Development and characterization of complex nanostructured Si surfaces with omnidirectional light absorption for solar cells (Ukraine)
 101. Tatiana Nenastina – Nanostructure architecture and nanostructure organization of a sensor matrix for differential analysis of complex gas media (Ukraine)
 102. Mariia Pasko – The structural diagram of carbon-nitride films produced by reactive magnetron sputtering (Ukraine)
 103. Dr. Olena Poliarus - Investigation of oxide nano-layers formation on the NiAl-15wt.%TiB₂ composite material surface at high-temperature oxidation in air (Ukraine)
 104. Dmytro Putiak - The structure and optic properties of ZnO thin films deposited by reactive ion beam sputtering (Ukraine)
 105. Dr. Antonina Redkina - Effect of zirconium silicate nanostructure on gas-phase dehydrogenation of light alkanes
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(Ukraine)

106. Dr. Rada Savkina - Deposition of calcium silicates and hydroxyapatite nanocoating on silicon using ultrasonic cavitation technique (Ukraine)
107. Mariana Seneta - Influence of adatoms dipole-dipole interaction on the dispersion law and acoustic phonon mode width of quasi-Rayleigh wave (Ukraine)
108. Dr. Irina Serdyuk - Influence of deposition conditions on the physico-mechanical properties of nitride coatings obtained from high-entropy alloys (Ukraine)
109. Maryana Shepida - Applying of gold and silver on a silicon in the environment DMSO and DMF (Ukraine)
110. Kateryna Sorochkina - Zirconium and aluminum oxyhydroxides formation during sol-gel process (Ukraine)
111. Dr. Vjacheslav Stolbovoy - Studies of multilayer TiN/MoN coatings deposited on a previously nitrided surface (Ukraine)
112. Susanna Syniakina - Structural evolution of the ZrO_2 - 3 mol. % Y_2O_3 nanopowders system under the HP and temperature influence (Ukraine)
113. Roman Topchak - Preparation of colloidal nanosilver in the presence of sodium polyacrylate by electrochemical method (Ukraine)
114. Vasyl Trush - The influence of vacuum treatment of different range on size hardened subsurface layers of the HFE-1 hafnium alloy (Ukraine)
115. Dr. Andrii Uklein - The impact of carbon surface functionalization on absorptive nonlinear optical response under pulsed excitation at 1064 nm (Ukraine)
116. Dr. Andrii Uklein - Nonlinear optical characterization of different carbon allotropes (Ukraine)
117. Prof. Svitlana Voloshko - Modifying of the Al2024 alloy surface by carbon nanotubes (Ukraine)
118. Rostyslav Yavorskyi - Structure, optical and electrical properties CdTe prepared by vapor-phase condensation (Ukraine)
119. Rostyslav Yavorskyi - TiO_2/Cu_2O heterojunction for PV application (Ukraine)
120. Iryna Yermolenko - The effect of the electrolysis regime on the composition and morphology of Fe-Co-Mo(W) coatings (Ukraine)
121. Dr. Volodymyr Zhurba - Deuterium concentrations in austenitic stainless steel by deuterium irradiation. Effects dose and temperature irradiation (Ukraine)
122. Prof. Sergey Kurta - Nanostructure of the catalyst surface CuCl(1,2) on $\gamma-Al_2O_3$ (Ukraine)
123. Dr. Alla Zvyginceva - Deuterium desorption temperature from Ni and Ni-B composites (Ukraine)
124. Iryna Yarmolenko - The effect of the electrolysis regime on the composition and morphology of Fe-Co-Mo(W) coatings (Ukraine)
125. Prof. Stella Shekhunova - Nanostructure of phosphorites (Ukraine)

Section “Physico – Chemical nanomaterials”

126. Dr. Artem Artyukhov - Phase composition and nanoporous structure of core and surface in modified granules of NH_4NO_3 (Ukraine)
127. Dr. Artem Artyukhov - Obtaining of the modified NH_4NO_3 granules with 3-D nanoporous structure: impact of humidifier type on the granule's structure (Ukraine)
128. Dr. Ivan Babichuk - Influence of laser radiation on structural transformation in Cu_2ZnSnS_4 thin films (Ukraine)
129. Dr. Olga Boldyrieva - Functionalized silica supporting noble metal nanoparticles for effective oxidative catalysis (Ukraine)
130. Dr. Olga Boldyrieva - The effect of reduction on the efficiency of platinum group metal/transition oxide catalysts (Ukraine)
131. Dr. Valerii Bykov - Thermal stability of electrolytic nanocrystalline WC. (Ukraine)
132. Prof. Jozef Cebulski - Nanoscale characterization of Sb incorporation effects in $Ga-As_{20}Se_{50}Te_{20}$ glass (Poland)
133. Mary Chaban - Structural characteristics and sorption properties of lithium-selective composite materials based on TiO_2 and MnO_2 (Ukraine)
134. Evgeniy Chefranov - Study of the subsolidus structure of the $BaO - SrO - Al_2O_3$ system (Ukraine)
135. Dr. Vitalii Chornii - Luminescent study of the fluorine-doped ZrO_2 and $ZrO_2:Eu$ nanoceramics (Ukraine)
136. Olena Danyliak - Kinetics study of nanocrystallization in $Fe_{82}Nb_2B_{14}RE_2$ ($RE = Y, Gd, Tb, Dy$) amorphous alloys (Ukraine)
137. Dr. Elena Datskevich - Prospects for the use of polysaccharide nanocomposites for cleaning and disinfection of drinking water (Ukraine)
138. Dr. Valeriy Demchenko - Innovative method of polyethylene – polypropylene welding under the effect of strong constant magnetic field (Ukraine)
139. Dr. Andriy Dmytruk - ZnO tetrapod nucleation: a model based on magic clusters (Ukraine)
140. Dr. Mykola Fedorchenco - The electronic and structural properties of the Si-Gd-O cathode (Ukraine)
141. Prof. Pavlo Galiy - Scanning tunneling spectroscopy study of In/In_4Se_3 (100) nanosystem (Ukraine)
142. Prof. Pavlo Galiy - The surface study of InSe(Ni) intercalate heteronanosystems (Ukraine)
143. Dr. Valerii Ganus - Effect of pressure changes during sulfurization on formation of thin film Cu_2ZnSnS_4 solar cell absorber (Ukraine)

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144. Dr. Andrii Gilchuk - Influence of Mg on luminescent characteristics of ZnS:Mn, obtained by self-propagating high-temperature synthesis. (Ukraine)
145. Maryna Glabay - Influence of CoAl₂O₄ on the properties of nanocrystalline powders in the ZrO₂-Y₂O₃-CeO₂-Al₂O₃-CoO system (Ukraine)
146. Dr. Olha Hrytsyna - A local gradient continuum theory for thermoelastic nonferromagnetic dielectrics: Accounting for electric and mass quadrupole moments (Ukraine)
147. Dr. Adam Ingram – Parameterization algorithms for mixed positron-electron interaction in nanostructurized substances (Poland)
148. Prof. Iryna Ivanenko - Ni-, Co- spinels for electrocatalysts of alkaline fuel elements (Ukraine)
149. Sergey Kalinichenko - The effect of modification of graphite on strength characteristics of graphite-based PTFE (Ukraine)
150. Dr. Svitlana Khalameida - Modification of nano-sized barium titanate and its catalytic properties (Ukraine)
151. Dr. Markian Kushlyk - Electroluminescence energy efficiency of Si-structures with different compound of nanoscale dislocation complexes (Ukraine)
152. Dr. Rabah Ladj - Phonon confinement in nanocrystals cadmium sulfide (Algeria)
153. Dr. Vladyslav Lisnyak - Modelling the reactivity of carbon materials: oxidation and bromination (Ukraine)
154. Prof. Anatoliy Luzanov - Curvature and topological indexes for SiC nanoclusters (Ukraine)
155. Dr. Roman Lys - Effect of elastic deformation and the magnetic field on the electrical conductivity of p-Si crystals (Ukraine)
156. Iryna Marek - Variation of physicochemical properties of nanocrystalline powder (mol.%) 88ZrO₂ – 12CeO₂ (Ukraine)
157. Olga Naberezhna - The prospects of using chaotically reinforced organoplastics based on phenylone in mechanical engineering (Ukraine)
158. Svitlana Nagirnyak - Effect of topology on semiconductor gas sensors' performance (Ukraine)
159. Dr. Valeriy Odnosum - High temperature Shape Memory Effect in Co-Al Alloys (Ukraine)
160. Dr. Anatoliy Onanko – Defect nanostructure, inelastic anisotropy of SiO₂, hydrates and automated system “KERN-DP” (Ukraine)
161. Dr. Taras Parashchuk - Thermodynamics of defects in ZnTe crystals (Ukraine)
162. Tetiana Pereverzieva - Influence of magnetization in alternating magnetic field on nanocrystallization of iron-based amorphous alloys (Ukraine)
163. Dr. Olena Pavlovska - Structural behavior of NdFe_xAl_{1-x}O₃ nanopowders obtained by sol-gel method (Ukraine)
164. Dr. Anna Potapenko - Influence of microwave irradiation on high-rate properties of graphite from Zavalie deposit (Ukraine)
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Section “Nanochemistry and nanobiotechnology”

1. Dr. Vitaliy Asaula - Preparation and optical properties of mesomorphic nanocomposites based on cadmium caprylate with Ag/CdS heteronanoparticles (Ukraine)
2. Dr. Yurii Barabash - Use of a system of differential equations to analyze the functioning of a catalytic biomacromolecule under nonequilibrium conditions (Ukraine)
3. Dr. Yurii Barabash - The use of wavelet analysis and a system of differential equations for a detailed study of the kinetics of electron phototransport in bacterial reaction centers. (Ukraine)
4. Prof. Ludmila Batsmanova - Use of metal nanoparticles as polymicrofertilizer for increasing soybean productivity (Ukraine)
5. Marianna Balinska - Nanocomposite preparation Sertasil (Acapsil) and Nitric Oxide Joint Application Potency in Treatment of Lower Limbs Complicated Trophic Ulcers (Ukraine)
6. Yulia Boichuk (O. Biloivan) – MDH activity assay based on an new nitrogen-doped graphene modified SPE for NADH detection (Ukraine)
7. Dr. Igor Dubey - Interaction of Pheophorbide-a and its derivatives with quadruplex DNA nanostructure (Ukraine)
8. Dr. Jozef Fejer - Green synthesis of gold nanoparticles using ethanol extracts of Juniperus communis L. ripe berries (Slovakia)
9. Dr. Nataliya Finiuk - Dimethylaminoethyl methacrylate-containing carriers with low phytotoxicity (Ukraine)
10. Dr. Igor Gerasimchuk - Electrolyte–Electrolyte Phase Separation in a DC Magnetic Field (Ukraine)
11. Dmitriy Glibitskiy - Comparison of spectral, light scattering and zigzag pattern analysis methods (Ukraine)
12. Dmitriy Glibitskiy - Zigzag patterns on the surface of BSA+AlCl₃ films (Ukraine)
13. Prof. Alexander Golub - Nanocomposition Ornidasil in treatment of pyo-inflammatory diseases of soft tissues (Ukraine)
14. Anna Grebinyk - Berberine Anticancer Activity through Nanocomplex with DNA and Metalic Nanoparticles (Germany)
15. Dr. Iryna Grynyuk - In silico studies and in vitro effects of combined action of C₆₀ fullerene with N-(diphenylphosphoryl)pyrazine-2-carboxamide or diphenyl-N-(trichloroacetyl)amidophosphate (Ukraine)
16. Oksana Hnatiuk - Single-walled carbon nanotubes affect the expression of genes associated with immune response in normal human astrocytes (Ukraine)
17. Dr. Nina Ivanova - Inhibition of the medicines hemolysis by liposome (Ukraine)
18. Ivan Karol - Nanocomposite Preparation Orniseratosil for Treatment of Suppurative Septic Diseases of Soft Tissues (Ukraine)
19. Dr. Nataliya Khmil - Erythrocytes' permittivity for determination of sensitization to local anesthetics of amide and ether groups (Ukraine)
20. Iryna Khomenko - Copper nanoparticles effect on proline accumulation in wheat seedlings under ultraviolet radiation (Ukraine)
21. Dr. Ivan Kucherenko - Electrochemical sensor with calixarene-based membrane for the arginine detection in aqueous samples (Ukraine)
22. Dr. Halyna Kuznetsova - Water-soluble C₆₀ fullerene nanoparticles attenuate liver failure features in rats with experimental obstructive jaundice (Ukraine)
23. Prof. Kostiantyn Lopatko - Effect of metal nanoparticles on morphological parameters of the plants in vitro (Ukraine)
24. Dr. Kira Liapina - Effect of Cu and Co nanoparticles based complex on stratification of grape grafts (Ukraine)
25. Dr. Mykhaylo Losytskyy - Undoped and Tb-doped cerium fluoride nanoparticles: excitation energy transfer to chlorin e₆ photosensitizer (Ukraine)
26. Dr. Mykhaylo Losytskyy - Uptake of chlorin e₆ photosensitizer by polystyrene-diphenyloxazole-PNIPAM hybrid nanosystem studied by electronic excitation energy transfer (Ukraine)
27. Olha Mamchur - Using cyclodextrins for improvement of performance of analytical biosensor for urea determination (Ukraine)
28. Dr. Ruslan Mariychuk - Synthesis nano-Cooper via bis-thiourea derivatives (Slovakia)
29. Tetiana Matvienko - The physiological endurance of skeletal muscles increases in the case of water-soluble C₆₀ fullerene nanoparticles administration before physical activity (Ukraine)
30. Dr. Inna Melnyk - Silica nanoparticles with amino or amino/phenyl groups and adsorbed Cu(II) ions as antibacterial and antifungal agents (Slovakia)
31. Silvia Mudroneckova - Bactericidal activity of silver nanoparticles synthesized from black elder fruit extract (Slovakia)
32. Iuliia Mukha - The role of tryptophan in the anticancer effect of mono- Ag, Au, and bimetallic AgAu nanoparticles (Ukraine)
33. Iuliia Mukha - Effect of photoactivation of amino acid tryptophan on gold nanoparticles formation (Ukraine)
34. Prof. Ivan Myronyuk - The ion exchange properties of nanocrystalline anatase with grafted phosphate groups (Ukraine)
35. Dr. Oksana Nadtocka - The polymer hydrogels based on the cross-linked polyacrylamides as dressing materials

36. Anna Naumenko - The analysis of potential binding sites of TiO₂ nanoparticles docked to the extracellular part of GABAB1a (Ukraine)
37. Olena Nesterenko - Investigation of the effectiveness of carbon nanotubes for targeted delivery of antitumor drugs (Ukraine)
38. Mariia Nesterkina - Liposomes – models for establishment of interaction mechanism between phospholipids and terpenoid esters (Ukraine)
39. Prof. Olga Olkhovych - Changes in the content of amino acids and protein in different hidromakrofits under the influence of metal nanoparticles (Ukraine)
40. Fatih Ozcan - Production of nonofibers of calixaren diamide compounds with electrospin and application to MCF-7 cancer cells (Turkey)
41. Olena Paiuk - Block/comb-like copolymers of perfluorochemical and dimethyl amino ethyl methacrylates as vectors for DNA delivery (Ukraine)
42. Dr. Igor Plyuto - Experimental model of the training instrument for real time visualization of optic disk of the retina
43. Dr. Igor Plyuto - The shell model for XPS quantitative analysis of layer thickness of supported nanosystems (Ukraine)
44. Dr. Svitlana Prylutskaya - Cytotoxic effect of cis-Palladium(II) complex incorporating 3-(2-pyridyl)-5-methyl-1,2,4-triazole in combination with C₆₀ fullerene on leukemic cells (Ukraine)
45. Dr. Viktoriya Pyeshkova - New electrochemical immunosensor based on recombinant protein A for determination of total concentration of IgG (Ukraine)
46. Yuliia Pysmenna - The effect of pre-sowing seed treatment with nonionic colloidal solutions of metal nanoparticles on lectin activity of winter wheat seedlings infected by the eyespot causal agent (Ukraine)
47. Prof. Tinatin Sadunishvili - Cellulases and hemicellulases from microscopic fungi (Georgia)
48. Prof. Tetyana Sergeyeva - Fluorescent sensor systems based on nanostructured MIP membranes for selective recognition of mycotoxins (Ukraine)
49. Prof. Anatoliy Shevchenko - Magnetic properties of nanocomplex affect on growth kinetics of Walker-256 carcinosarcoma (Ukraine)
50. Dr. Liudmyla Shkotova - Amperometric enzyme biosensor for glucose determination based on matrix of mesoporous silica composite and Ir nanoparticles (Ukraine)
51. Dr. Liudmyla Shmeleva - Mechanism of active electron transfer along a protein-like nanowire in real conditions (Ukraine)
52. Dr. Olena Shynkarenko - Application of plasma polymer films in bio-sensing field (Ukraine)
53. Dr. Paweł Sikora - Evaluation of potential toxicity of nanomaterials used as admixtures in cement-based composites (Poland)
54. Dr. Oleksandr Smirnov - Hormetic effects of aluminium hydroxide nanoparticles (NPs)
55. on the morphofunctional traits of common buckwheat seedlings (Ukraine)
56. Dr. Oleksandr Soldatkin - Analysis of using various modifications of zeolites in electrochemical biosensors (Ukraine)
57. Yuliia Taranets - Amino acids as growth modifiers of calcium oxalate monohydrate crystals (Ukraine)
58. Dr. Emilia Tomaszewska - Synthesis of metallic nanoparticles by seed growth mediated method (Poland)
59. Viktoria Yavorovska - Protective influence of thiocalix[4]arenes on myosin ATPase activity against inhibitory effects of Zn²⁺ (Ukraine)
60. Prof. Mustafa Yilmaz - Development of gliadin based electrospun nanofiber carriers for colloidal delivery of curcumin: Characterization of morphological, fluorescence, molecular, thermal, crystallographic and bioactive properties (Turkey)
61. Dr. Mustafa Yildiz - Synthesis, Characterization, and Application of a Novel Water-Soluble Polyethyleneimine-Based Schiff base Colorimetric Chemosensor for Metal Cations and Biological Activity (Turkey)
62. Dr. Danilo Zavodovskyi - Optimization of therapeutic approach to the application of water-soluble C₆₀ fullerenes for correction of ischemia-reperfusion injury in skeletal muscle of limbs: mechano-kinetic and biochemical aspects (Ukraine)
63. Dr. Olena Zinchenko - Application of gold nanoparticles to improve characteristics of pH-FETs biosensor based on immobilized uricase (Ukraine)
64. Mariya Borovaya - Surface functionalization of CdS quantum dots and their application in bioimaging (Ukraine)
65. Ali Hussein Mustafa AL-OBAIDI – Sunthesis of aldehyde monopoalimidazo-fenantrolin polypyridine ligand with magnetic nano partical Fe₃O₄ compelexes (Turkey)
66. Arjan Akbar Hameed – Synthesis of substitute hydrazo glyoxime and metal complexes (Turkey)
67. Yashar Akbar Hameed – Determination of antioxidant, total phenol and flavonoid contents of three endemic rhabonticoides species (Iraq)
68. Dr. Vitalii Izai – Electric conductivity and optical parameters of Cu_xPS₅I – based thin films with various copper content (Ukraine)
69. Dr. Iryna O. Shton - Photodynamic activity of methylene blue, functionalized by polymer- and nanocarriers against mouse melanoma B16 in vitro (Ukraine)

Section “Nanoobjekts”

70. Viktor Artemyuk - Synthesis and properties of mono- and multilayer Ni films obtained by thermal deposition (Ukraine)
71. Dr. Vladimir Karbovsky – Tunneling spectroscopy and morphological surface features of amorphous alloy $\text{Fe}_{82}\text{Si}_4\text{B}_{14}$ (Ukraine)
72. Prof. Tetyana Krushelnitska - Free energy of electron subsystem of biintercalate (Ukraine)
73. Andrey Lohvynov - The structure and phase composition of nanocrystalline Ru films (Ukraine)
74. Yaroslava Lopatina - STM-investigation of Monolayer of Long Chain n-Alkanes ($n \geq 50$) on Atomically Flat Surfaces
75. Yaroslava Lopatina - Bilayer Films of n-Alkanes: STM-study in liquid/solid interface
76. Yaroslava Lopatina - Formation of disulfide bonds in alkyldithiol monolayers: STM study and DFT modelization (Ukraine)
77. Dr. Petro Lytvyn - Micro- and nanomagnetic measurements in magnetic force microscopy (Ukraine)
78. Dr. Tetiana Monastyrskaya - Refining of intermetallic compound precipitations of transition metals during the aging of the Al-Cu-Mn-Zr alloy (Ukraine)
79. Dr. Gennady Monastyrsky - Martensite structure in the spark plasma sintered Cu-Al-Ni (Ukraine)
80. Tetiana Nagorna - Structural characterization of fullerene clusters in N-Methyl-2-pyrrolidone /toluene solvents mixtures (Ukraine)
81. Dr. Viktor Nikolaenko - IR detector using transitions to the self-localized state of electrons over helium film on the structures substrate (Ukraine)
82. Dr. Halyna Petrovska - Digital holographic focused image interferometer (Ukraine)
83. Dr. Viktor Prysyazhnyuk - Structural and magnetic properties of Gd-Fe films (Ukraine)
84. Ihor Starchenko - Field ion microscopy of triple junction configuration in high-textured tungsten (Ukraine)
85. Dr. Volodymyr Sukhomlyn - Interphase nanoparticles of cementite in low-carbon steels (Ukraine)
86. Dr. Nataliya Tovstyuk - Relaxation time of intercalate electron subsystem (Ukraine)

Section “Nanooptics and photonics”

87. Dr. Valerii Barbash - Optically transparent nanocellulose films from wheat straw (Ukraine)
88. Dr. Alexander Bonchyk - Nanosize defects in arsenic implanted HgCdTe epitaxial films (Ukraine)
89. Dr. Lyudmyla Borkovska - Tunable red emission in Mn-doped MgO-TiO_2 solid solutions sintered by solid state reaction method (Ukraine)
90. Dr. Ihor Demkovych - Heat generated by different shape nanoparticles under the influence of radiation (Ukraine)
91. Dr. Svetlana Dolenko - Investigating of the association of surfactants by dynamic light scattering (Ukraine)
92. Dr. Janna Douda - Transformation of optical properties of CdSe quantum dots at liposomal encapsulation (Mexico)
93. Prof. Eugene Glushko - The multimode island kind photonic crystal resonator: states classification (Ukraine)
94. Dr. Mariia-Magdalyna Ignatovych - Copper and Copper-Europium nanospecies embedded in quartz glass: spectral characterization (Ukraine)
95. Sviatoslav Iliash - Photoconductivity and photoluminescence transients of InGaAs-GaAs quantum wire modulation-doped heterostructures (Ukraine)
96. Prof. Ihor Izhnin - Nanostructures with Ge-Si quantum dots for infrared photodetectors (Ukraine)
97. Prof. Ihor Izhnin - Luminescence studies of HgCdTe-and InAsSb-based quantum well structures (Ukraine)
98. Oksana Kharchenko - Novel styrylquinoline containing polymers for nonlinear optical application (Ukraine)
99. Oleh Kravets - Morphology and optical-luminescence investigations of ZnGa_2O_4 spinel compound co-doped with Mn^{2+} and Eu^{3+} ions (Ukraine)
100. Dr. Oksana Krupka - Nonlinear behavior of DNA-functionalized gold nanoparticles (Ukraine)
101. Dr. Bohdan Kulyk - Optical linear and nonlinear absorption study of CuO film (Ukraine)
102. Sergiy Kurlov - Temperature characterization of gain in the active region for quantum cascade laser (Ukraine)
103. Katarzyna Lenczewska - Size and concentration effect on the energy transfer and near infrared emission in $\text{GdVO}_4:\text{Bi}^{3+}, \text{Ln}^{3+}$ ($\text{Ln}=\text{Nd}^{3+}$ and Yb^{3+}) nanophosphors (Poland)
104. Dr. Andriy Luchechko - Synthesis and luminescent properties of $\text{Gd}_3\text{Ga}_5\text{O}_{12}$ nanopowders doped with Tb^{3+} ions (Ukraine)
105. Dr. Natalia Medvid - Correlation approach to the dynamic formation of light microfields (Ukraine)
106. Dr. Iuliia Mukha - The role of tryptophan in the anticancer effect of mono- Ag, Au, and bimetallic AgAu nanoparticles (Ukraine)
107. Dr. Oleksandr Semchuk - The theory of absorption and emission of light by free electrons in semiconductors (Ukraine)

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- 108. Prof. Sergey Pokutnyi - Exciton and biexciton states in nanoheterostructures of semiconductor and dielectric quantum dots (Ukraine)
 - 109. Iryna Romaniukina - The influence of deuterium concentration and temperature on the degree of water structuring (Ukraine)
 - 110. Anna Salohub - Optical polarization sensors based on Zn_2SnO_4 nanofilms (Ukraine)

 - 111. Dr. Kostiantyn Shportko - Impact of the cation and anion vacancies on the optical properties of the tetragonal CdP_2 (Ukraine)
 - 112. Mykola Sieryk - Disorder in P3HT aggregartes (Ukraine)
 - 113. Prof. Viktor Strelchuk - FTIR characterization of Co-doped ZnO microwires grown by optical furnace method (Ukraine)
 - 114. Prof. Volodymyr Vasylechko - Sorption-luminescence method for determination of europium using acid-modified Transcarpathian clinoptilolite (Ukraine)
 - 115. Dr. Zoryana Zhuchenko - Peculiarities of polarized magnetophotoluminescence of InGaAs/GaAs quantum wells (Ukraine)
 - 116. Dr. Olena Udovytyska - Momentum diffusion of atoms in the counter-propagationg bichromatic waves (Ukraine)
 - 117. Dr. Iryna Yaremchuk - Influence of temperature on the surface-plasmon resonance sensor elements (Ukraine)

Section "Physico – Chemical nanomaterials"

- 118. Borys Reshytko - Contribution of polarization mechanisms in colossal permittivity of doped $BaTiO_3$ ceramics (Ukraine)
- 119. Dr. Anastasiya Sachko - The interaction between casein and cationic surfactant benzethonium chloride (Ukraine)
- 120. Olena Sachuk - The ultrasonic treatment influence on the structure and properties of CeO_2 - MoO_3 system (Ukraine)
- 121. Prof. Oleh Shpotyuk - Free volume study of mechanochemically-amorphized nanoarsenicals with PAL spectroscopy (Ukraine)
- 122. Prof. Oleh Shpotyuk - Atomic-deficient nanostructurization in water-sorption ceramics (Ukraine)
- 123. Dr. Ewa Skwarek - Adsorption of uranyl ions onto functionalized polisiloxanes with magnetic properties (Poland)
- 124. Dr. Ewa Skwarek - Studies on the effect of pH on the stability of aqueous suspension of mechanochemically modified nanosilica (Poland)
- 125. Dr. Ewa Skwarek - Adsorption of uranyl ions at the hydroxyapatite and his modification calcium and silver/aqueous electrolyte interface. (Poland)
- 126. Dr. Olesia Smirnova - Quantum Chemical Study On Water Molecules Adsorption On N Doped Anatase Face (001) (Ukraine)
- 127. Mariia Smyrnova-Zamkova - Physicochemical properties of nanocrystalline α - Al_2O_3 powder doped with hydrothermal powder ZrO_2 (Y_2O_3 , CeO_2) (Ukraine)
- 128. Dr. Eugene Strativnov - Thermodynamic model of thermal benefication of Ukrainian nanoflaky graphite. (Ukraine)
- 129. Yurii Stubrov - Synthesis and specificity of defects embedding in (100) and (111) oriented CVD diamond nano- and microcrystals grown on Si and Mo substrates using E/H field discharge stabilization (Ukraine)
- 130. Dr. Olena Sych - Resorbable bioceramic scaffolds based on nanostructured biogenic hydroxyapatite for bone tissue engineering (Ukraine)
- 131. Dr. Volodymyr Sydorchuk - Nano-dispersed phosphates of polyvalent metals as catalysts for pollutants degradation (Ukraine)
- 132. Jakub Szlezak - Nano-inhomogeneities in Ga-containing Ge-Se-Te glasses caused by Bi incorporation (Ukraine)
- 133. Alexander Tashchuk - Research features of deformation of nano-microcrystalline auxetics (Ukraine)
- 134. Alexander Tashchuk (M.D. Raransky) - Investigation of mechanical properties of auxetics from meso- to nanolevels (Ukraine)
- 135. Dr. Tetiana Tatarchuk - Structural and magnetic properties of Li-Zn ferrite nanoparticles (Ukraine)
- 136. Anna-Mariia Tomina - The effect of organic fibers Oxalon on micromechanical characteristics of phenylone C-1 (Ukraine)

- 137. Prof. Cornelia Tovstyuk - Electron energy in periodic quantum dots with different configurations (Ukraine)
- 138. Dr. Galyna Tsapyuk - The oxidation of carbon nanomaterials: a thermogravimetric study (Ukraine)
- 139. Artem Vasko - Seed mediated synthesis of giant gold particles on a solid surface (Ukraine)
- 140. Prof. Leonid Vasylechko - Anomalous thermal behaviour of $TbCoO_3$ and $TbCo_{0.5}Cr_{0.5}O_3$ probed by X-ray synchrotron powder diffraction (Ukraine)
- 141. Dr. Bogdan Vasyliv - On the structural degradation of Ni-containing anode materials caused by hydrogen sulfide (Ukraine)
- 142. Svetlana Vasylyuk - About possible mechanisms of nanoconductivity in polyenes polymers The charge solitons at extremely weak external fields (Ukraine)
- 143. Svetlana Vasylyuk - Spectrophotometric control oxidation-reduction-potential (O.R.P.) of water during its activation (Ukraine)

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144. Prof. Małgorzata Wisniewska - Nanostructure of adsorption layer of anionic polyacrylamide on the mixed silica-titania oxide surface (Poland)
145. Prof. Małgorzata Wisniewska - Nano-sized oxides of different compositions as adsorbents for hazardous substances removal from aqueous solutions (Poland)
146. Sergii Yatsukhnenko - Impedance of boron and nickel doped silicon micro and nanostructures (Ukraine)
147. Yekaterina Yeriomina - Metal-containing polymers based on heat-resistant aromatic polyamide phenylone (Ukraine)
148. Roman Zhyla - Peculiarities of the antioxidant action of exomodified fullerenes C₆₀ at the oxidation of organic compounds (Ukraine)
149. Dr. Agnieszka Nosal-Wiercinska - The effects of the mixed adsorption layers of mercaptoperine - TritonX - 114 and mercaptoperine - Tween 80 on double layer parameters mercury /chlorates (VII) interface (Poland)
150. Uliana Yakhnevych - Optical investigation of the metal ions diffusion into LiNbO₃ (Ukraine)
151. Dr. Oleksander Bonchyk - XRD in situ heating of Ni/Al reactive metallic multilayers (Ukraine)
152. Iryna Levchenko - Nanosized relief formation of the InAs, GaAs, InSb, GaSb crystals surface (Ukraine)
153. Prof. Georgiy Levchenko - Quantum pezomagnetic effect in molecular based compounds. (Ukraine)
154. Dr. Halyna Klym - Frequency domain kinetic of electron-positron annihilation in the MgO-Al₂O₃ spinel-type ceramics (Ukraine)
155. Dr. Halyna Klym - Positron-positronium trapping algorithm in application to study of nanostructured effects in Ge-Ga-Se/S chalcogenide glasses
156. Dr. Halyna Klym - Positron-positronium trapping effects near grain boundaries and in nanopores in the modified MgO-Al₂O₃ ceramics
157. Dr. Halyna Klym - Free-volume entities in the Cu_{0.4}Co_{0.4}Ni_{0.4}Mn_{1.8}O₄ ceramics studied by PAL tools
158. Dr. Halyna Klym - Free volume in the MgGa₂O₄ spinel doped with Eu³⁺ ions studied with positron annihilation lifetime spectroscopy (Ukraine)
159. Iryna Naiko - Obtaining a homogeneousnanosize film with using an erosive plasma source (Ukraine)
160. Dr. Natalya Shmatkova - Types of interactions in supramolecular ensembles of Ge(IV) and Sn (IV) complexes with R-benzoyl- and pyridinoylhydrazones of aromatic aldehydes (Ukraine)
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Section “Nanocomposites and Nanomaterials”

1. Dr. Sergei Alekseev - Optical properties of ultrashort carbon nanotubes (Ukraine)
2. Rabie Amari - Study of ZnO thin films prepared by sol–gel spin coating method: Effect of sol concentration (Algeria)
3. Dr. Nataliia Andriushyna - Photocatalytic Activity of Nanostructured Composites Based on C₃N₄ and Layered Niobate for Enhanced Hydrogen Production from Solutions Electron Donor under Visible Light (Ukraine)
4. Prof. Mehmet Yakup Arica - Cyclic carbonate groups for biomolecules immobilization at low temperature (Turkey)
5. Hanna Arinarkhova - Nanosized Pt/SnO₂ materials for adsorption semiconductor sensors for detection CO in air (Ukraine)
6. Dr. Metin Aslan - Conductivity Measurements of 2D Electrons in GaInNAs/GaAs Quantum Well Structure Under IR Light Illumination (Turkey)
7. Yuriy Babyuk - Synthesis and catalytic properties of gold nanorods (Ukraine)
8. Dr. Maksym Barabash - Ferromagnetic nanopowder Iron-based materials, obtained by synthesis from iron citrate for medical applications (Ukraine)
9. Dmytro Baranovskyi - The effect of heating rate on the phase transformation of Ni(NiO)/BaTiO₃ multilayer thin films (Ukraine)
10. Yulia Bardadym - The influence of magnetic fields on the structure and properties epoxy composites (Ukraine)
11. Yulia Bardadym - The technological process of production of nanomaterials (Ukraine)
12. Razet Basnukaeva - Sorption of hydrogen by quartz aerogel at low temperatures (Ukraine)
13. Prof. Gulay Bayramoglu - Glycoprotein adsorption studies onto fibrous polymer grafted and concanavalin A immobilized magnetic silica particles (Turkey)
14. Tetiana Beinyk - Film structures based on nonspherical gold nanoparticles for surface enhanced Raman spectroscopy (SERS) (Ukraine)
15. Prof. Vyacheslav Beresnev - Multilayer coatings based on nitrides of refractory alloys with nanometer thickness (Ukraine)
16. Dr. Oleksandra Berezhnytska - Nanomaterials based on on-dicarbonyl complexes of some lanthanides (III) (Ukraine)
17. Dr. Tamara Bezrodna - Nanoparticles effects on spectral-luminescent and generation properties of polymer laser media based on organic dyes (Ukraine)
18. Dr. Tetiana Bezugla - Activated carbon fiber with functionalized surface (Ukraine)
19. Prof. Oleksandr Bochechka - Mechanism of sintering diamond nanopowders by high pressure (Ukraine)
20. Dr. Yuliia Bolbukh - Polymeric composites for medical applications (Ukraine)
21. Dr. Yuliia Bondar - Composite birnessite-coated polyacrylonitrile fibers: synthesis and application (Ukraine)
22. Dr. Yuliia Bondar - Synthesis of nanocomposite adsorbent for removal of Sr radionuclides from contaminated waters (Ukraine)
23. Maryna Bondarenko - Effect of the C and S additives on structural, optical and photocatalytic properties of TiO₂ (Ukraine)
24. Dr. Lyudmyla Borkovska - Structural and optical properties of ZnO:Tb thin films grown by RF magnetron sputtering (Ukraine)
25. Dr. Eugene Bortchagovsky - Ellipsometric investigation of the interaction of surface and localized plasmons and registration of their splitting (Ukraine)
26. Dr. Eugene Bortchagovsky - Ellipsometry of nanostructures on a surface. (Ukraine)
27. Nataliia Bortnyk - Catalase mimetic activity of carbon supported nanoceria (Ukraine)
28. Ammar Boukhari - Thickness effect on structural, electrical, and optical properties of ZnO films deposited by sol-gel spin coating method (Algeria)
29. Rostyslav Bovhyra - First principle study of native point defects in ZnO nanoclusters (Ukraine)
30. Prof. Bahadir Boyacioglu - DFT Calculation, Anion Sensing Application Studies and Crystal Structure of 3-Aminopyridine-Based Imine Derivative (Turkey)
31. Dr. Yehor Brodnikovkyi - Advanced zirconia composites for IT-SOFC application (Ukraine)
32. Dr. Sergiy Budzulyak - Synthesis of highly luminescent CdTe quantum dots (Ukraine)
33. Anatolii Bukivskii - The Nature of PbI₂ Films Photoluminescence (Ukraine)
34. Tetiana Bulavinets - Synthesis and Photodynamic Properties of Silver Nanoparticles (Ukraine)
35. Dr. Ihor Bulyk - Low temperature sintering of REM-TM ferromagnetic materials (Ukraine)
36. Dr. Zafer Ceylan - Nanotechnological applications on seafood quality (Turkey)
37. Dr. Zafer Ceylan - The effect of thymol-loaded chitosan nanofibers on proximate composition of gilthead sea bream fillets (Turkey)
38. Prof. Barbara Charmas - Structural, thermal and energetic characteristics of synthetic active carbons prepared on the basis of ion-exchange resin Amberlite IRC 84 (Poland)
39. Svitlana Chernii - Spectral-luminescent characterization of β -ketoenoles as amyloid-sensitive fluorescent probes for amyloid fibrils detection (Ukraine)

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40. Dr. Andrei Coval - InP photovoltaic cells with nanometric layers (Moldova)
41. Dr. Andrei Coval - ZnO, Zn_2SnO_4 thin layers growth by pulverization method and investigation of their electrical and optical properties. (Moldova)
42. Dr. Bahri Deghfel - First principles LDA+U study of structural, electronic, elastic and optical properties of Mn doped wurtzite ZnO (Algeria)
43. Anastasiya Dekret - Features of photoacoustic transformation in multilayer silicon-based porous structures (Ukraine)
44. Vsevolod Delov - The stress effect on crystallization and magnetic properties in Co-rich microwires. (Ukraine)
45. Vsevolod Delov - Magnetic properties and structure of high-entropy $Co_{19}Cr_{18}Fe_{22}Mn_{21}Ni_{20}$ alloy films (Ukraine)
46. Dr. Lesya Demchenko - The effect of thermomechanical treatment with nanoparticles formation on inelastic behavior of Fe-Ni-Co-Ti alloys (Ukraine)
47. Dr. Lesya Demchenko - The effect of aging under hydrostatic pressure and magnetic field on mechanical and magnetic properties of Cu-Al-Mn alloys (Ukraine)
48. Dr. Valeriy Demchenko - X-ray study of structural formation of Silver-containing polymer nanocomposites obtained by the thermal reduction method (Ukraine)
49. Antonina Demchuk - The influence of the shape on the optical properties of nanoparticles (Ukraine)
50. Oksana Demchyna - The electrical conductivity of composite material based on nanoporous carbon (Ukraine)
51. Krystyna Demydova - Investigation of proton conductivity of the hybrid organic-inorganic membranes synthesized via photo-initiated polymerization and in situ sol-gel process (Ukraine)
52. Oleksandr Dobrozhany - Optical properties of CZTS films obtained from nanoink deposition by spray pyrolysis technique (Ukraine)
53. Dr. Tetiana Dontsova - The creation of nanocomposite materials to solve environmental problems (Ukraine)
54. Dr. Nataliia Dudchenko - Synthetic nanosized magnetically ordered iron oxides for medical-biological application (Ukraine)
55. Alena Dyadenchuk - Solar cells based on heterostructures n-CdS/porous-Si/p-Si (Ukraine)
56. Mariana Dzeryn - Nanocomposites of polyaniline with modified silica (Ukraine)
57. Dr. Roman Dinzhos - Thermal conductivity of metal-containing polymer nanocomposite materials (Ukraine)
58. Prof. Volodymyr Dutka - Polymer composites based on styrene-maleic anhydride copolymer with polyaniline (Ukraine)
59. Nina Efimenko - The reactive ion plasma synthesis of functional coatings for implantology (Ukraine)
60. Prof. Seref Ertul - The use of calixarenne nanofibers as membranes in the removal of heavy metals (Turkey)
61. Prof. Anatoliy Evtukh - Resonant tunneling at electron field emission from Si nanowires coated with SiO_x and $SiO_2(Si)$ films (Ukraine)
62. Prof. Anatoliy Evtukh - Influence of Si nanowires on solar cell properties (Ukraine)
63. Dr. Bouaicha Faiza - Elaboration and characterization of iron oxide samples (Algeria)
64. George Fedorenko - Gas sensitive materials based on nanosized tin dioxide doped by palladium for adsorption semiconductors sensors to methane (Ukraine)
65. Katerina Filatova - Application of mesoporous silica particles as perspective pharmaceutical excipients in solid dosage forms of methotrexate (Czech Republic)
66. Katerina Filatova - A structure of the adsorbed layer of nanosilica- N-methyl-4-benzylkarbamidopirydyne (amizon) nanocomposite (Czech Republic)
67. Svitlana Filipchenko - New hybrid nanocomposites for antitumor therapy (Ukraine)
68. Daria Franskevych - Photoexcited fullerene C_{60} overcomes resistance of leukemic cells to cisplatin by activation of proapoptotic pathways (Ukraine)
69. Dr. Liliya Frolova - Plasma-chemical synthesis and functional properties of ferrites $Ni_{x-1}Mn_xFe_2O_4$ (Ukraine)
70. Kateryna Fuzik - Quantum-mechanical model of phase-contrast images for nanoscale non-crystalline objects (Ukraine)
71. Dr. Angelina Gab - High-Themperature Electrochemical Synthesis of Nanopowders of Molybdenum, Tungsten, and Chromium Borides from Halide-Oxide Melts (Ukraine)
72. Dr. Iryna Galstyan - Optical Properties of Polytetrafluoroethylene-Carbon Nanotubes Composite in the Light Spectrum Range 320–1000 nm (Ukraine)
73. Tatyana Gaydamak - Magnetopiezoelectric effect in Sm and Nd ferroborates (Ukraine)
74. Dr. Volodymyr Gayvoronsky - The optical properties and nonlinear optical response of nanosized ZnO (Ukraine)
75. Vusal Geidarov - Influence of low temperature on deformation changes the structure of the polyimide film PMA (Ukraine)
76. Dr. Alexandr Glamazda - Nanohybrids of thermoresponsive polymer with embedded gold nanoparticles: spectroscopy and modeling study (Ukraine)
77. Prof. Alexander Golub - Nanocomposition Ornidasil in treatment of pyo-inflammatory diseases of soft tissues (Ukraine)
78. Prof. Vladimir Golub - Ferromagnetic resonance in epitaxial films of magnetic shapememory alloys (Ukraine)
79. Dr. Oleksii Gonchar - New methods of modification of montmorillonite for creation of polyurethaneacrylate nanocomposites (Ukraine)
80. Dr. Olena Goncharuk - Silica-supported Ni_xO_y , Zn_xO_y and Mn_xO_y nanocomposites: electrosurface properties and

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- interaction with water and n-decane (Ukraine)
81. Dr. Larysa Gorbach - Molecularly imprinted polymers (MIPs) as elements of nanosensors for phenol and bisphenol A detection (Ukraine)
82. Dr. Tetyana Gorbanyuk - Semiconductor layered structure with nanosized Nafion membranes for new selective gas sensor (Ukraine)
83. Dr. Olga Grigoryeva - High performance nanocomposites based on recycled polyolefins and rubbers (Ukraine)
84. Dr. Viktor Grinevich - The temperature dependent studies of Luminescent in nanosized SnO_2 films (Ukraine)
85. Dr. Galina Grodzyuk - Photocatalytic properties of layered nanostructures $\text{K}_3\text{H}_3\text{Nb}_{10.8}\text{O}_{30}$ in the hydrogen evolution reaction in aqueous solutions of alcohols (Ukraine)
86. Dr. Svitlana Gryn - Properties and functionalization of nanodiamonds, produced by Light Hydro-Dynamic Pulse (LHD^P) technology (Ukraine)
87. Prof. Iurii Gudyma - Impact of surface fluctuations on temperature transition of spin-crossover compounds (Ukraine)
88. Dr. Aleksey Guglya - Structure and absorption properties of nanocrystalline VNX films with nickel protective coatings (Ukraine)
89. Prof. Bilgehan Guzel - Schiff Bases Derived Palladium Complex: New Precursor For Supercritical Fluid Deposition Technique (Turkey)
90. Prof. Bilgehan Guzel - The Effect of Temperature on Crystal Lattice of Palladium Nanoparticles in Supercritical Carbondioxide Deposition Method (Turkey)
91. Daryna Haliarnyk - Enzyme mimetic activity of carbon nanomaterials in diacyl peroxides decomposition (Ukraine)
92. Valentyna Havrylova - The Effect of Nanodisperse Fillers on the Viscoelastic Properties of Antifriction Solid Lubricant to Be Used in the Cold Plastic Deformation of Titanium Alloys (Ukraine)
93. Yulia Horbenko - Features of the structure and electronic properties in conducting polymers doped by carbone nanoclusters (Ukraine)
94. Volodymyr Hrynn - The properties of volume polymer/Ag nanoparticles gratings formed by holographic method (Ukraine)
95. Dr. Andrey Iljin - Nonlinear helical winding in highly viscous chiral thin films (Ukraine)
96. Dr. Serhiy Ivanchenko - Creation of suspensions and obtaining of ceramic tapes for fuel cells by tape casting method (Ukraine)
97. Dr. Olga Kapush - Semiconductor light-emitting diode with conversion of wave length (Ukraine)
98. Dr. Ivan Karbovnyk - Systematic study of polarized luminescence in nanostructured organic films (Ukraine)
99. Dr. Nina Karpenko - Reproductive function of adult male rats after treatment liquid medicinal form of gadolinium ortovanadat nanoparticles (Ukraine)
100. Anastasia Kashuba - Applying a sol-gel method for the synthesis of double silicate apatite structure (Ukraine)
101. Dr. Yurii Khoverko - Nanoscale Polysilicon in Sensors of Physical Values at Cryogenic Temperatures (Ukraine)
102. Prof. German Telbiz - Waveguide lasing of dye-doped nanoscale mesostructured films (Ukraine)
103. Dr. Nataliya Tkachenko - Study of adsorption of the interaction of polimetakrilovoї acid with the surface modified titanium dioxide (Ukraine)
104. Serhii Tomylko - Impact of diamond nanoparticles on electrical conductivity of nematic liquid crystals: ion capturing and ion releasing effects (Ukraine)
105. Liliia Toporovska - Comparison of photocatalytic properties ZnO nanorods fabricated by different methods (Ukraine)
106. Prof. Alexandr Tovstolytkin - Low-field magnetization and effective anisotropy of core-shell ferrite nanoparticles (Ukraine)
107. Iryna Trofymchuk - Surfactant-free sol-gel synthesis of organic-inorganic silicas with oligosaccharide "host" cavities for binding aromatic "guests" (Ukraine)
108. Prof. Mykhailo Trubitsyn - Impedance spectroscopy of multiphase lithium germano-germanates (Ukraine)
109. Dr. Tetiana Tsaregradska - The influence thermal treatment on phase-formation processes in metallic glasses (Ukraine)
110. Bogdan Tsykaniuk - Structural and optical study of the strain distribution in GaN/AlN superlattices (Ukraine)
111. Olesya Tulzhenkova - The Complex of Thermal, Physical and Mechanical Properties of Nanocomposite Polychlortrifluoroethylene - SnO_2 (Ukraine)
112. Dr. Alla Tymchuk - Flocculation ability of nanoscale complexes based on chitosan (Ukraine)
113. Olena Tynkevych - Formation of Zn-alloyed CdTe Quantum Dots (Ukraine)
114. Dr. Taytana Ulyanova - Influence of nanostructured PSZ modifier on structure and properties of Ceramics from industrial alumina powder (Belarus)
115. Prof. Huseyin Unver - Synthesis, Quantum Chemical Calculations, Molecular Docking Studies and Anion Sensor Properties of Vanillin Schiff Base (Turkey)
116. Olena Ustavytska - New promising nanostructured porous materials based on conjugated polymers, obtained via template-assistant approach (Ukraine)
117. Dr. Andrii Vasin (Prof. G. Rudko) - Visible photoluminescence of aged $\text{Zn}(\text{acac})_2/\text{C}_2\text{H}_5\text{OH}$ solution: emission/excitation/kinetics study (Ukraine)
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118. Prof. Volodymyr Vasylechko – Sorption of plumbum on acid-modified. Transcarpathian clinoptilolite (Ukraine)
119. Dr. Inna Vasylenko - CeO₂ nanoparticles as energy transfer mediators in luminescent lantanide complex with organic ligand-antenna (Ukraine)
120. Yuriy Venhry - Photoluminescent properties of complex metal oxide nanopowders for gas sensing (Ukraine)
121. Dr. Igor Vladymyrskyi - Low-temperature diffusion in Pt/Fe and Pt/Au/Fe thin films (Ukraine)
122. Kateryna Voitenko - Features of photoacoustic and laser ultrasound responses formation in a nanocomposite system "porous silicon - liquid" (Ukraine)
123. Kateryna Voitenko - Photoacoustic effect in nanodiamond-based nanofluids (Ukraine)
124. Dr. Mariia Voitovych - Enhancement of the luminescence of nc-Si/SiO₂ Structures due to radiation-thermal treatment (Ukraine)
125. Dr. Maryna Volosyuk - Contact Phenomena in Intergranular Boundaries of Composite Nano-Materials (Ukraine)
126. Andrii Voronkin - Polymer nanocomposites for optical applications (Ukraine)
127. Dr. Ludmila Vovchenko - Dielectric properties and AC conductivity of epoxy/hybrid nanocarbon filler composites (Ukraine)
128. Dr. Lyudmyla Vretik - Heterogeneous polymeric nanoparticles for phototheranostics (Ukraine)
129. Dr. Yuliya Vyshnevskaya - Dynamic nanocomposite engineering methods for obtaining nanostructured smart materials based on aniline derivatives (Ukraine)
130. Olena Yakovenko - Electrical properties of epoxy-based composites with graphite nanoplatelets and magnetically aligned magnetite (Ukraine)
131. Dr. Andriy Yakymovych - Nanocomposite SAC solders: structure and electrical conductivity of the liquid Sn_{3.0}Ag_{0.5}Cu solder with Ni nanoadditions (Ukraine)
132. Dr. Andriy Yakymovych - Lightweight metal matrix nanocomposites: electrical conductivity and microstructure of the Mg-based alloys with bimetallic CoPd nanoadditions (Ukraine)
133. Yevhenii Yarmoshchuk - Magnetic and electrical properties of Fe-B-P-Nb-Cr nanocrystalline alloys (Ukraine)
134. Dr. Ivan Yaskovets - Annealing kinetics of radiation-induced defects in carbon nanotube bundles below room temperature (Ukraine)
135. Volodymyr Yerukh - Optical properties of nanoparticles produced by pulsed electric discharge in water (Ukraine)
136. Dr. Natalia Yukhimenko - Magnetic properties of iron oxide nanoparticles modified with silanes and their heating ability in alternating magnetic field (Ukraine)
137. Irina Zagorulko - Formation of amorphous-nanocrystalline structures in the conditions of stepped quenching of melts (SQM) (Ukraine)
138. Dr. Dora Zakarian - Modeling of the structure of boron nanocrystal. Equilibrium parameters and strength (Ukraine)
139. Vladimir Zakharov - Organic-inorganic ion-exchangers for purification of water after whey processing (Ukraine)
140. Nataliya Zhdanyuk - Protection of groundwater from compounds of uranium (Ukraine)
141. Dmytro Zhulai - Influence of noble metal nanoparticles on near-electrode processes at interface of ITO-cadmium octanoate (Ukraine)
142. Mariia Zhyhalo - Doping of the composite materials based on methacrylic monomers by inorganic components (Ukraine)
143. Dr. Larysa Khomenkova - Impurity-governed lighting of rare-earth doped HfSi_xO_yN_z thin films grown by reactive magnetron sputtering (Ukraine)
144. Dr. Sergii Snegir - Coupled gold nanoparticles by 1,9-nonadithiol: Correlation between light absorbance and morphology (Ukraine)
145. Dr. Piotr Sagan - Structural and magnetic properties of Cu_xNi_{1-x-y}Co_{2y}Mn_{2-y}O₄ ceramics with nanosized oxide second phases (Poland)
146. Dr. Grzegorz Wisz – Morphology, composition, structure and optical properties of thermal annealed Cu₂O thin films prepared by reactive DC sputtering method (Poland)
147. Dr. Ihor Syvorotka - Influence of YIP phase on magnetic properties of YIG nanoparticles prepared by sol-gel method (Ukraine)
148. Prof. Olena Shembel – Innovative eddy-current electromagnetic non-destructive non-contact method for evaluation conductivity and composition of powder materials. Increase efficiency of electrode materials and power sources (Ukraine)
149. Dr. Vitaliy Shvalagin – Influence of nanosized SiO₂ and polyvinylpyrrolidone on luminescent properties of ZnO nanoparticles (Ukraine)
150. Dr. Liudmyla Storozhuk – Study of tribological properties of natural rubber containing carbon nanotubes and carbon black as hybrid fillers (Ukraine)
151. Dr. Oleksandr Markevych - Electrochemical properties of interface: Li electrode - solid polymer electrolyte (Ukraine)
152. Dr. Magdalena Barwiolek – The new thin layers of the Ag(I) and Cu(II) Schiff base complexes obtained by the wet methods (Poland)
153. Prof. Mohamed Bououdina – Micro-/Nano structured materials for H₂ energy (Bahrain)
154. Rayhena Bengas – Characteristics of direct electrodeposited and pulsed-electrodeposited ZnO: comparative study (Algeria)
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- 155. Dr. Imededdine Zerrouk – Fabrication and characterization of magnesium Zinc Oxide thin films (Algeria)
 - 156. Pavlo Makushko – Phase formation and magnetic properties in $\text{Fe}_{50}\text{Pt}_{50}/\text{Au}/\text{Fe}_{50}\text{Pt}_{50}$ films (Ukraine)
 - 157. Dr. Alexander Markevych – High energy Li batteries with solid polymer electrolyte and cathode based on the spinel LiMn_2O_4 (Ukraine)
 - 158. Prof. Leonid Sukhodub - Peculiarities of reconstruction of biomaterials based on alginate-orthophosphate ceramics in bone tissue (Ukraine)
 - 159. Prof. Yuliya Dzyazko - Effect of incorporated inorganic particles on porous structure and functional properties of ion exchange polymer (Ukraine)

Saturday, 26.08.2017

Section “Nanocomposites and nanomaterials”

- 1. Julia Kaykan - Magnetic properties of nanocrystalline Mg substituted Li ferrites obtained by the sol-gel auto combustion method (Ukraine)
- 2. Prof. Lyubov Kharkhalis - Spectra of the Elementary Excitations in the In_4Se_3 Crystals with Different Nanoinclusions (Ukraine)
- 3. Dr. Viktoriya Khomchenko - The violet photoluminescence band in ZnO nano-films (Ukraine)
- 4. Dr. Viktoriya Khomchenko – Preparation structural and luminescent properties of nanocrystalline ZnO falmis doped Ag by close space sublimation method (Ukraine)
- 5. Anastasiia Khominich - Nanocomposite coatings with CNTs strengthening component (Ukraine)
- 6. Dr. Alexander Khovavko - Overheated surfaces emergency cooling using the nanofluids
- 7. Dr. Alexander Khovavko - CNTs synthesis on the catalytic substrate (Ukraine)
- 8. Dr. Yurii Khoverko - Superconductivity and weak localization of $\text{Pd}_x\text{Bi}_2\text{Se}_3$ whiskers (Ukraine)
- 9. Prof. Natalya Kizilova - Towards design of nanoporous materials with optimal properties (Ukraine)
- 10. Prof. Ihor Kobasa - Photocatalytic degradation of methelene blue on nanostructured composites based on TiO_2 and polymethine dye (Ukraine)
- 11. Roman Kolisnyk - Novel heating element based on polymer nanocomposites for resistance welding of plastics (Ukraine)
- 12. Yevgen Kolomiyets - Nanoparticles of Zr(IV) and Fe(III) oxides incorporated into Dowex SBR-P ion exchange resin: effect on sorption of arsenate ions (Ukraine)
- 13. Dr. Olga Kolomoiets – Electrochemical properties of interface: Li – electrode solid polymer electrolyte (Ukraine)
- 14. Alexandra Koloskova - Structural and magnetoresistive properties of Co/Ag/Py pseudo spin-valves (Ukraine)
- 15. Eugene Kolyvoshko - Influence of carbyne chain length on its lifetime (Ukraine)
- 16. Dr. Iryna Kondratyeva - Photocatalytic properties of TiO_2 /flavonol nanomaterials for dye-sensitized solar cells (Ukraine)
- 17. Dr. Sergiy Konoplyuk - The phase content of highly dispersed particles in Cu-Mn-Al Heusler alloy and its influence on magnetic ordering and NMR spectra (Ukraine)
- 18. Leonid Konotopsky - Growth and structure of Zr/Mg multilayer x-ray mirrors (Ukraine)
- 19. Dr. Viktoriia Konovalova - Magnetite-polysaccharide nanocomposites as components of heterogeneous Fenton system (Ukraine)
- 20. Dr. Dmytro Korablov - Mechano-chemically prepared composites of Mg with Ti, Nb or V additives synthesized under hydrogen pressure (Ukraine)
- 21. Sonya Kosar - Highly efficient photocatalytic conversion of solar energy to hydrogen by core-shell heterojunction nanorods (Ukraine)
- 22. Oksana Kostyuk - Quantum Size Effect in Thin Films Based on p-type Compound PbSnAgTe . (Ukraine)
- 23. Dr. Volodymyr Kotsyubinsky - The electrical conductivity and photocatalytic activity of nanodispersed Fe_2O_3 (Ukraine)
- 24. Iryna Kovalchuk - Nanowires based on plant viruses and metal nanoparticles (Ukraine)
- 25. Mariia Kovalenko - Effect of metal nanoparticles on the antioxidant activity of Triticum sp. plants under drought conditions (Taras Shevchenko National University of Kyiv, Ukraine)
- 26. Mariya Kovalenko - First Principles Calculation of Electronic and Magnetic Properties of Bare and Doped ZnO Nanoribbons (Ivan Franko National University of Lviv, Ukraine)
- 27. Aleksei Kozak - Photoelectric properties of InAs/InGaAs quantum dot structures with different stoichiometry of InGaAs metamorphic buffer (Ukraine)
- 28. Dr. Artem Kozyrev – Formation of MgB_{12} and AlB_{12} under high pressure and temperature (Ukraine)
- 29. Serhii Krasnovyd - ESR, optical and structure study of biomorphous carbon matrix (Ukraine)
- 30. Oleksandr Kravchuk - Comparison of different sintering methods of inkjet-printed conductive structures (Ukraine)
- 31. Dr. Anatolii Kravets - Temperature control of indirect exchange coupling in magnetic multilayers (Ukraine)
- 32. Serhii Kryvyyi - Evolution of lattice papameters porous structure obtained using laser ablation of gold (Ukraine)
- 33. Oleksii Kuda - Sr-containing glass-ceramic composites based on biogenic hydroxyapatite (Ukraine)
- 34. Anzhela Kukh - TiO_2 and its composites as effective photocatalyst for glucose degradation processes (Ukraine)
- 35. Dr. Mykola Kulyk - Low temperature coercivity in the oriented ensembles of single-domain magnetic nanoparticles (Ukaine)

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36. Dr. Volodymyr Kulyk - The impact of Fe_3O_4 nanoparticles size on their magnetic properties (Ukraine)
37. Dr. Ihor Kupchak - Structural and electronic properties of ultrasmall CdS quantum dots doped with transition metals ions (Ukraine)
38. Marina Kuperman - CD sensing of conformation's alterations of serum albumin by iron (II) clathrochelates (Ukraine)
39. Dr. Vasyl Kuryliuk - Thermal conductivity of Ge/Si composite quantum dots: a molecular dynamics study (Ukraine)
40. Prof. Nina Kushchevska - High-Themperature Electrochemical Synthesis of Nanopowders of VIB Group Metals Silicides in Ionic Melts (Ukraine)
41. Dr. Viktor Kusnezh - Photosensitivity of the CdS:Au NPs/CdTe heterostructures (Ukraine)
42. Anastasiya Kutuzova - The prospects of nanostructured TiO_2 -based gas sensors using for the detection of CO (Ukraine)
43. Dr. Andriy Kytsya - Synthesis and catalytic properties of Ni_{x}Cu bimetallic nanoparticles (Ukraine)
44. Dr. Iryna Laguta - Green synthesis of silver nanoparticles using plant extracts (Ukraine)
45. Marharyta Lakusta - The impact of TiO_2 and GeO_2 the sintering kinetics of tetragonal zirconia nanopowders (Ukraine)
46. Sergey Lapshin - Production of nanostructured and ultradisperse materials by means of volumetric electrospark erosion (Ukraine)
47. Dr. Tetyana Lebydyeva - Preparation of Al Nanomesh from Aluminum Thin Films (Ukraine)
48. Serhii Lemishko - Characterization and dielectric properties of KTaO_3 ceramics co-doped with Li and Co: Size effects (Ukraine)
49. Dr. Volodymyr Liakhovetskyi - Spectral and nonlinear optical properties of mono- and multilayer films based on star-shaped nanoparticles, planted on the glass substrate. (Ukraine)
50. Dr. Oksana Linnik - Nitrogen and metal ion co-doped titania photocatalysts films synthesized by sol-gel and pulsed laser deposition methods: similarities and differences (Ukraine)
51. Pavlo Lishchuk – Features of photoacoustic transformation in multilayer silicon-based porous structures (Ukraine)
52. Dr. Eugenia Lobko - Electromagnetic interference shielding of cross-linked polyurethane/carbon nanotubes/ Fe_3O_4 composites (Ukraine)
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