

## **Poster session 1 (01 July)**

### **Topic 1: Graphene**

**P1.00 Elena Sheka**

Water dynamics in shungite with inelastic neutron scattering

**P1.01 Elena Sheka**

Spectral properties of shungite quantum dots

**P1.02 Vladimir Yakovlevich Davydov**

Estimation of adsorption isotherms and heats of compounds adsorption on graphene

**P1.03 Victor Demin**

Theoretical investigation of graphene-graphane nanoribbons magnetic properties

**P1.04 Mattia Gaboardi**

Metal Decorated Graphenes: Synthesis and Characterization

**P1.05 Konstantin Alekseevich Simonov**

Iodine p-doping of graphene on Ni(111) by thermal CuI overlayer decomposition

**P1.06 Mikhail Katkov**

Selective gas sensor on the basis of fluorinated graphene

**P1.07 Ilya Klimovskikh**

Electronic and spin structure of graphene on Pt(111)

**P1.08 Oleg Kononenko**

Investigation of structure and transport properties of graphene grown by low-pressure no flow CVD on polycrystalline Ni films

**P1.09 Mikhail V Korobov**

Interaction of graphite oxide with the solvents

**P1.10 Yury Krivosenko**

New hard x-ray photoelectron spectroscopic probe of chemical bonding in graphene-on-substrate

**P1.11 Yulia Vladimirovna Kudashova**

Monolayer graphene oxide films on silicon surface

**P1.12 Dmitry Gennadievich Kvashnin**

Investigation of the strong influence of the edges and dopants to the work function of graphene-based nanostructures

**P1.13 Alexander Alexandrovich Lebedev**

Grapheme and multigraphene layers grown on 6H-SiC low temperature transport properties investigations.

**P1.14 Alexander Alexandrovich Lebedev**

Energy gaps in graphene induced by the silicon carbide substrate

**P1.15 Denis Dmitrievich Levin**

Formation and investigation of graphene films produced by different methods

**P1.16 Natalia Lvova**

The adsorption properties of polycrystalline graphene: quantum-chemical simulation

- P1.17 **Valery Michailovich Mikushkin**  
X-ray induced graphene oxide reduction studied by photoelectron spectroscopy
- P1.18 **Valery Michailovich Mikushkin**  
Size confinement effect in bilayer graphene grown on 6H-SiC (0001) substrate
- P1.19 **Valery Michailovich Mikushkin**  
Few-layer graphene hydrogenation by H<sub>2</sub><sup>+</sup> ion beam of the keV-energy range
- P1.20 **Nadezhda Aleksandrovna Nebogatikova**  
The mechanism of fluorination processes for few-layer graphene in the aqueous solution of hydrofluoric acid
- P1.21 **Anastasia Pak**  
The evolution of few cycles optical pulses in a double-layer graphene - boron nitride, taking into account medium nonlinearity
- P1.22 **Nadezhda Anatolievna Popova**  
Molecular theory of graphene oxide
- P1.23 **Nadezhda Anatolievna Popova**  
Topological mechanochemistry of graphene
- P1.24 **Mauro Ricco**  
Muons probe hydrogen interaction with graphene
- P1.25 **Vladimir Sakharov**  
Utilizing of the Medium-Energy Ion Scattering Spectrometry for the Composition Investigation of Graphene Oxide Films on Silicon Surface
- P1.26 **Vasil Saroka**  
Slow plasmon-polaritons in carbon nanostructures for Cherenkov-type generators
- P1.27 **Daria Sedlovets**  
The influence of the ambient conditions on the electrical resistance of graphene-like films
- P1.28 **Vladimir Shnitov**  
Unusual momentum dependence of pi-plasmon energy and halfwidth in epitaxial bilayer graphene
- P1.29 **Alexander Sergeevich Sinitsa**  
Theoretical Study of Graphene Nucleation on Nickel Surface
- P1.30 **NYAN-HWA TAI**  
Influences of graphene on the viability of colon cancer cells under near infrared irradiation
- P1.31 **Kazuyuki Takai**  
Calorimetric Study of Multi-Shell Nanographite derived from Nanodiamond
- P1.32 **Galina Vladimirovna Tikhomirova**  
Comparative studies of transport and phase transitions in graphene and graphite at high pressures
- P1.33 **I-SHOU TSAI**  
Preparation of Multi-layer Graphene Sheets by Electrochemical Exfoliation
- P1.34 **Viacheslav Andreevich Tur**  
Synthesis and characterization of few-layered graphene for supercapacitors

**P1.35 Evgeny Vladimirovich Zhizhin**

Modification of induced spin-orbit splitting of  $\pi$  - states of graphene under joint intercalation of Bi and Au

**P1.36 Eugenii Vyacheslavovich Skokan**

Density functional-tight binding study of graphene fluorination

**Topic 2: Carbon Nanotubes**

**P2.01 Maxim Sergeevich Barabashko**

Low temperature heat capacity of 1D chains of adsorbates (Xe, N<sub>2</sub>) in outer grooves of c-SWNT bundles.

**P2.02 Sergey Vladimirovich Boroznin**

Migration processes on the surface of carbon nanotubes with substitute boron atoms

**P2.03 Vladimir Y. Butko**

Interfacial and dimensional effects in graphene based nanostructures

**P2.04 Olessya Aleksandrovna Davletova**

The study of the adsorption of biologically active diketones containing diphenyloxide fragment on the outer surface of carbon nanotubes.

**P2.05 Lusine Elbakyan**

THE POLYMERS WITH CARBON NANOTUBES AS NEW MATERIALS IN STOMATOLOGY

**P2.06 Alexander Valentinovich Eletsii**

Effect of the thermal motion of the residual gas molecules onto the degradation of carbon nanotube-based electron field emission cathode

**P2.07 Georgy Fedorov**

Carbon Nanotube Sensors: Interplay between Schottky Barrier and Gas Adsorption

**P2.08 Ekaterina Olegovna Fedorovskaya**

Electrochemical and electronic properties of polyaniline/graphene composites

**P2.09 Levon Ichkitidze**

Electrically-Conductive Layers of Composite Nanomaterial with Multiwalled Carbon Nanotubes

**P2.10 Levon Ichkitidze**

The Use of Composite Nanobiomaterials based on Carbon Nanotubes for Compounds Biological Tissues

**P2.11 Nadiia Kolomiets**

Fast-response chemical sensor based on CNT

**P2.12 Natalia Konobeeva**

Propagation of attosecond pulses in carbon nanotubes

**P2.13 German Germanovich Kosakovskii**

The mechanism of field emission in nanodiode with nanotube cathode

**P2.14 German Germanovich Kosakovskii**

The study of emission mechanism from carbon nanotube at a small anode-cathode distance

- P2.15 **Kirill Vladimirovich Kremlev**  
Synthesis and characterization of MWCNTs decorated with rhenium nanoparticles
- P2.16 **Kirill Vladimirovich Kremlev**  
NEXAFS studies of the composite MWCNT's-pyrolitic Cr by synchrotron radiation
- P2.17 **Aleksey Andreevich Krutoyarov**  
About adsorption of the polyethylene monomer unit on the single-walled carbon nanotubes surface
- P2.18 **Natalia Pavlovna Polikarpova**  
SENSOR ACTIVITY OF CARBON NANOTUBES WITH MODIFICATION OF CARBOXYL GROUP
- P2.19 **Aleksandr Prikhodko**  
Percolation Mechanism and Specific Features of Nanosecond Current–Voltage Characteristics of an Array of Carbon Nanotubes
- P2.20 **Roman Rozanov**  
Formation of a memristor-based structures of metal oxides with carbon nanotube electrode pads
- P2.21 **Artem Viktorovich Rukhov**  
Macrokinetics of production processes of carbon fibrous nanomaterials
- P2.22 **Kerstin Schneider**  
CVD growth of carbon nanotubes with a Ni catalyst in a polyimide trench
- P2.23 **Sergey Urvanov**  
Carbon fibers modified with carbon nanotubes and fullerenes
- P2.24 **Nadzeya Igorevna Valynets**  
Electromagnetic interference shielding of carbon nanotube buckypaper in Ka-band
- P2.25 **Aleksei Vladimirovich Yemelyanov**  
Field control conductivity of a channel made of carbon nanotubes coated with organic molecules

## **Poster session 2 (03 July)**

### **Topic 3: Fullerenes**

- P3.01 **Arslan Rifkhatovich Akhmetov**  
The reaction of [60]fullerene with halogen azides
- P3.02 **Arslan Rifkhatovich Akhmetov**  
The reaction of [60]fullerene with aluminum azides
- P3.03 **Sergey Andreev**  
Facile preparation of aqueous fullerene nanodispersions
- P3.04 **Marina Apenova**  
Bingel-Hirsch mechanism of dichlorocarbene addition to C<sub>60</sub>/70: experimental evidence
- P3.05 **Shafolat Aqnazarova**  
Investigation of the structure and physical properties of fullerene-containing polymers

- P3.06 **Elena Bashkatova**  
Attenuation of allergic inflammation by treatment with water-soluble forms of fullerene C<sub>60</sub>
- P3.07 **Victor Andreevich Brotsman**  
Regioselective functionalization of homofullerene C<sub>60</sub>CF<sub>2</sub> for organic photovoltaic applications
- P3.08 **Grigory Nikolaevich Churilov**  
The influence of helium pressure on the formation process of carbon nanodispersed substances in the plasma of high-frequency arc
- P3.09 **Grigory Nikolaevich Churilov**  
The formation of higher and endohedral fullerenes in the plasma of high-frequency arc with low-frequency modulation under elevated helium pressure
- P3.10 **Ruslan Rashidovich Gazizov**  
Formation of stable radicals in the photochemical reaction of C<sub>60</sub> with C<sub>4</sub>F<sub>8</sub>I<sub>2</sub>
- P3.11 **Ayrat Khamatgalimov**  
Stabilization of higher IPR fullerenes C<sub>74</sub> (D<sub>3h</sub>) and C<sub>76</sub> (T<sub>d</sub>) with open shell in radical addition reactions
- P3.12 **Dmitri Valentinovich Konarev**  
Preparation of mononuclear and dinuclear transition metal-fullerene compounds by the reduction method
- P3.13 **Valerii Ignatyevich Kovalenko**  
Isolated Pentagon Rule – what`s new?
- P3.14 **Kirill Vladimirovich Kremlev**  
Quenching of the phthalocyanine and porphyrine luminescence by C<sub>60</sub> in toluene solution
- P3.15 **Vasily T. Lebedev**  
Supramolecular structures in aqueous solutions of fullerene-containing propylene oxide oligomers
- P3.16 **Vasily T. Lebedev**  
Polymer membranes modified by hybrid star-shaped macromolecules with fullerene C<sub>60</sub> branching center
- P3.17 **Olga Nikolaevna Mazaleva**  
Computational study of formation pathway of the heptagon-containing C<sub>88</sub>C<sub>122</sub>
- P3.18 **Konstantin Pavlovich Meletov**  
Phase transitions at high pressure in the neutral state donor-acceptor complexes {Pt(dbdtc)<sub>2</sub>}<sub>2</sub>C<sub>60</sub>, {Cd(dedtc)<sub>2</sub>}<sub>2</sub>C<sub>60</sub> and {Hg(dedtc)<sub>2</sub>}<sub>2</sub>C<sub>60</sub>.
- P3.19 **Konstantin Pavlovich Meletov**  
Raman study of the neutral state donor-acceptor complexes of the fullerene C<sub>70</sub> {Cd(dtc)<sub>2</sub>}<sub>2</sub>C<sub>70</sub>, {NiII(dcp)<sub>2</sub>}<sub>2</sub>(C<sub>70</sub>)<sub>2</sub> and (CuSeEt)<sub>2</sub>C<sub>70</sub> at high pressure.
- P3.20 **Ivan Mikheev**  
Preparation and characterization of a new clustered {N<sub>70</sub>}<sub>n</sub> fullerene material
- P3.21 **Ievgenii Alexandrovich Petrenko**  
Simulation of photon and secondary electron transport in thin metal and fullerite films

- P3.22 **Levon Borisovich Piotrovskiy**  
Characterization of fullerene derivatives by MALDI LIFT-TOF/TOF mass spectrometry
- P3.23 **Roman Polozkov**  
Structured pseudopotential correction to the jellium model for fullerenes
- P3.24 **Iraida Nikolaevna Potapova**  
Structure and properties of fullerene-derived carbon particles after heating under pressure in the temperature range of fullerene molecule stability limit
- P3.25 **Aleksei Pozdnyakov**  
NEXAFS spectra of PMMA-C60 and PMMA-MWNT nanocomposites
- P3.26 **Aleksei Pozdnyakov**  
UV-Vis diagnostics of the PMMA-C60 composite system and the kinetics of its thermal decomposition
- P3.27 **Natalia Andreevna Romanova**  
Synthesis, structure and theoretical study of trifluoromethylated derivatives of C<sub>84</sub>(23) fullerene
- P3.28 **Alexey Vladimirovich Rybalchenko**  
Spectroelectrochemical and theoretical studies of C<sub>60</sub>(CF<sub>2</sub>)H<sub>2</sub>
- P3.29 **Denis Sabirov**  
Metal complexes in the synthesis of oxygen-containing C<sub>60</sub> and C<sub>70</sub> fullerene derivatives
- P3.30 **Vladimir Shnitov**  
Peculiarity of electron beam induced modification of C<sub>60</sub>/C<sub>70</sub> composite film
- P3.31 **Eugenii Vyacheslavovich Skokan**  
XPS studies of several trifluoromethyl and dihalomethylene derivatives of fullerenes C<sub>60</sub> and C<sub>70</sub>
- P3.32 **Gennadi Girshevitch Sominski**  
Field emitters made of fullerene and indium nano-layers with greatly differing work functions.
- P3.33 **Gennadi Girshevitch Sominski**  
Operation of tip field emitters with activated fullerene coatings in technical vacuum conditions.
- P3.34 **Sergey Igorevich Troyanov**  
New trifluoromethylated C<sub>90</sub> fullerenes: C<sub>90</sub>(30)(CF<sub>3</sub>)<sub>18</sub> and C<sub>90</sub>(35)(CF<sub>3</sub>)<sub>14</sub>
- P3.35 **Ayrat Khamatgalimov**  
Trifluoromethyl mono and diadducts of fullerene C<sub>84</sub> (isomers 22 and 4): theoretical analysis of the electronic structure
- P3.36 **Airat Tuktarov**  
A new synthesis of fullereryl ketones catalyzed by Ti(Oi-Pr)<sub>4</sub>
- P3.37 **Irina B. Zakharova**  
Fullerene films with suppressed polymerizing ability
- P3.38 **Irina B. Zakharova**  
Structure, composition and optical properties of C<sub>60</sub> thin films

## **Poster session 3 (04 July)**

### **Topic 4: Nanodiamond particles**

**Valeriy Aleksandrovich Davydov**

P4.01 Synergistic influence of fluorine and hydrogen on processes of thermal transformations of carbon-containing systems under high pressures

P4.02 **Valeriy Aleksandrovich Davydov**

Synthesis of diamond with silicon-vacancy defects at high static pressures

P4.03 **Tatiana Dolenko**

Diamond-water coupling effects in Raman and photoluminescence spectra of nanodiamond colloidal suspensions

P4.04 **Valery Dolmatov**

Radioactive nanodiamonds

P4.05 **Valery Dolmatov**

A probable mechanism of formation of detonation nanodiamond

P4.06 **Viktor Volodymyrovych Garashchenko**

The vibrational spectra of ultradispersed diamond powders

P4.07 **Farida Rafelevna Gareeva**

Electrosurface Properties of Primary Particles of Deagglomerated Detonation Nanodiamond in Aqueous KCl Solutions

P4.08 **Elena Golubina**

Effect of nanodiamond surface composition on adsorption of metal ions and catalytic properties of supported metal particles

P4.09 **Dmitriy Vladimirovich Gorodetskiy**

PE CVD synthesis of carbon-carbon composites

P4.10 **Michail Grigorievic Ivanov**

Nanodiamond-based oil lubricants on steel-steel and stainless steel- hard alloy (WC) high load contact: investigation of friction surfaces

P4.11 **Andrew Khomich**

The origin of broadband photoluminescence and EPR signals in HPHT nanodiamonds

P4.12 **Inna Ivanovna Kulakova**

Active hydrogen accumulation on detonation nanodiamond surface in Ni-supported catalysts

P4.13 **Tikhon Sergeevich Kurkin**

Enhancing the interface strength in fiber-reinforced polymer composite materials via complex modification by strongly charged nanodiamond soot particles

P4.14 **Ivan Alexandrovich Makarov**

Controlled Oxidation of Detonation Blend

P4.15 **Seira Morimune**

Nanodiamond Reinforced Polymer Nanocomposites Prepared in Aqueous Media

- P4.16 **Vladimir Yurievich Osipov**  
Electron paramagnetic resonance studies of modified detonation nanodiamonds with low ash content
- P4.17 **Anna Panova**  
Oxidation of nanodiamond powders with different content of sp<sup>2</sup>-hybridized carbon
- P4.18 **Natalia Igorevna Petrova**  
Electrokinetic Properties of Nanodiamond Particles in Aqueous Electrolyte Solutions
- P4.19 **Vladimir A. Popov**  
Use of Liquid Stamping Method for Producing Metal Matrix Composites with Non-agglomerated Nanodiamond Reinforcing Particles
- P4.20 **Vladimir A. Popov**  
Electrochemical composite coatings with reinforcing non-agglomerated nanodiamond particles
- P4.21 **Konstantin Victorovich Reich**  
Optical Properties of Detonation Nanodiamond Hydrosols
- P4.22 **Jessica Marianne Rosenholm**  
Nanodiamond composite structures for inorganic nanomedicine II: Application
- P4.23 **Jessica Marianne Rosenholm**  
Nanodiamond composite structures for inorganic nanomedicine I: Fabrication
- P4.24 **Natalia Nikolaevna Rozhkova**  
Contribution of graphene shell to the stabilization of nanodiamond particles in aqueous dispersion
- P4.25 **Mikhail Dmitrievich Sharkov**  
Ultra-dispersed diamond structure characterization using the methods of x-ray diffractometry and small-angle x-ray scattering
- P4.26 **Mikhail Shestakov**  
The structure of nanodiamonds produced by laser shock-wave synthesis.
- P4.27 **Oleksandr Vasyliovych Tomchuk**  
Aggregation in modified aqueous dispersions of detonation nanodiamonds as revealed by small-angle neutron scattering
- P4.28 **Ekaterina Vasilyeva**  
Production and structure of metallic-nanodiamond composites by spray-dray technique
- P4.29 **Nikolay Nikolaevitsh Vershinin**  
Comparative study of nanodiamond and nanosized silicon carbide based catalysts for carbon monoxide oxidation
- P4.30 **Dmitry Sergeevich Volkov**  
Direct Elemental Analysis of Nanodiamonds with ICP-OES
- P4.31 **Sergey Voropaev**  
Synthesis of Diamondlike Nanoparticles under Cavitation
- P4.32 **Alexandr Voznyakovskii**  
Detonation nanodiamonds. Structure or surface

P4.33 **Elena Zagrebina**  
NEXAFS study of surface fluorinated nanodiamonds

## **Topic 5: Carbon onions, Nanographite, Nanoporous carbon and Other**

- P5.01 **Karina Ahmadishina**  
Transparent conductive film of nanotubes for flexible electronics
- P5.02 **Alexander Victorovich Arkhipov**  
Role of substrate in facilitated field electron emission from nanocarbon films
- P5.03 **Alexander Victorovich Arkhipov**  
Field electron emission from a nickel-carbon nanocomposite
- P5.04 **Sergey sergeevich Bukalov**  
Structural changes in commercial glassy carbons as a function of heat-treatment temperature, according to Raman < X-ray diffraction and diamagnetic susceptibility data.
- P5.05 **Sergey Burikov**  
Using artificial neural networks for elaboration of fluorescence biosensors on the basis of nanoparticles
- P5.06 **Valerii Valer'evich Chernov**  
Nanocrystalline diamond films grown on flat and 3D configuration molybdenum substrates and their electron emission properties
- P5.07 **Olessya Aleksandrovna Davletova**  
About adsorption of simple gas molecules on a surface of acryle-nitrile nanopolymer
- P5.08 **Olessya Aleksandrovna Davletova**  
Research of hydrogenation of carbon nano-crystalline materials based on pyrolyzed polyacrylonitrile
- P5.09 **Olessya Aleksandrovna Davletova**  
Research of adsorption of carbon nanostructures on the base of pyrolyzed polyacrylonitrile
- P5.10 **Tran Thi Thuy Duong**  
MgO - doped alumina reinforced by carbon nanotubes
- P5.11 **Aleksey Victorovich Erokhin**  
Structural and catalytic properties of metal – carbon nanocomposites Fe@C and Ni@C in phenylacetylene hydrogenation
- P5.12 **Pavel V. Fursikov**  
Metal oxide – carbon nanofibers composites: synthesis, characterization, and electrophysical behavior
- P5.13 **Viktor Volodymyrovych Garashchenko**  
Optical limiting in polymer suspension of graphite submicron scale particles
- P5.14 **Ramil Ibragimov**  
SERS substrate development for advanced carbon nanostructures study
- P5.15 **Sergey Vasilievich Kozyrev**  
Carbon encapsulation of magnetic metal nanoparticles: correlation between nanoscale structure of carbon matrix and electromagnetic properties

- P5.16 **Yury Krivosenko**  
Resonances in photoemission from molecules confined in fullerene cages
- P5.17 **Yulia Alexandrovna Kvashnina**  
The prediction of the new promising superhard carbon allotropes
- P5.18 **Anton Malovichko**  
Sensitive properties of percolating networks of carbon nanotubes and ZnO nanorods investigation
- P5.19 **Svetlana Mikhailova**  
Optical properties peculiarity of platinum embedded diamond-like carbon films
- P5.20 **Kirill Victorovich Mironovich**  
Secondary nucleation on nanostructured carbon films grown in the plasma of direct current glow discharge
- P5.21 **Evgeny Nicholaevich Moos**  
CRYSTALLINE STATE ATOMIC- PURE SURFACE OF HIGHORIENTATION PYROLYTIC GRAPHITE
- P5.22 **Roza Muzafarovna Nikonova**  
Contact interaction of metal melts with nanocarbon materials
- P5.23 **Tatiana S Orlova**  
Structure-driven transition in behaviour of elastic and inelastic properties of wood-derived biocarbon
- P5.24 **Nail Rahmatullovich Sadykov**  
Calculation of electrical conductivity of polyynic and cumulenic carbon chains
- P5.25 **Dmitry Ivanovich Savkin**  
SYNTHESIS AND CHARACTERISTICS OF X-RAY AMORPHOUS NANOCARBON PRODUCED BY SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS.
- P5.26 **Olga Sedelnikova**  
Electromagnetic screening effect in carbon nanostructures: ab initio and experimental study
- P5.27 **Fedor Shakhov**  
HPHT synthesis and properties of boron doped diamonds
- P5.28 **Tao Wei**  
Putting a non-group-III metal into fullerene cage via metal nitride formation
- P5.29 **Olga Anatoliivna Biloivan**  
Nanocomposite Amperometric Biosensor for Choline Determination in Infant Formula
- P5.30 **Uladimir Urbanovich**  
On the question of structure formation of amorphous-nanocrystalline composite with high hardness based on nanocarbon at high pressure
- P5.31 **Andrey Yakovlevich Vinogradov**  
Growth and characterization of DLC-(Ni-C) nanocomposite sandwich structures
- P5.32 **Andrey Yakovlevich Vinogradov**  
Effect of ion bombardment on phase composition and mechanical properties of thin diamond like carbon films

- P5.33 **Evgeniya Zharikova**  
New photoluminescent material on the basis of nanodiamonds and ions terbium(III)
- P5.34 **Mattia Gaboardi**  
Reversible hydrogen absorption in alkali metal intercalated fullerenes
- P5.35 **Fupin Liu**  
A series of inorganic solid nitrogen sources for the synthesis of metal nitride clusterfullerenes: the dependence of production yield on the oxidation states of nitrogen and counter ion
- P5.36 **AKIHIRO OTSUKA**  
Various types of intermolecular interactions between C60 anion radicals

### **School Poster Session (03 July)**

- P6.01 **Maxim Sergeevich Barabashko**  
The low temperature heat capacity of the C60-CH4 solution
- P6.02 **Svetlana Vladimirovna Cherdyntseva**  
Processing and characterization of epoxy nanocomposites modified by multi-wall carbon nanotube Graphistrength® C S1-25
- P6.03 **Alexey Emelianov**  
Field electron emission from carbon films fabricated by magnetron sputtering
- P6.04 **Igor Vladimirovich Ershov**  
Ab initio study of atomic structure and surface states of graphene covered MnO polar (111) surfaces
- P6.05 **Ekaterina Olegovna Fedorovskaya**  
Biosensors based on composites of aligned carbon nanotubes and RNA
- P6.06 **Alina Ibatullina**  
Importance of detonation nanodiamonds post-synthetic processing.
- P6.07 **Arthur Alikovich Ibragimov**  
Electron field emission features of carbon nanostructured cathode
- P6.08 **Marianna Kharlamova**  
The filling of single-walled carbon nanotube channels is a method of directional modification of their electronic properties
- P6.09 **Sergei Koniakhin**  
The electron-phonon matrix element in the Dirac point of graphene
- P6.10 **Svyatoslav Igorevich Krel**  
Investigation of low-aspect-ratio carbonic field-emission nanostructures
- P6.11 **Yulia Vladimirovna Kudashova**  
Forming of monolayer graphene oxide films on silicon substrate
- P6.12 **Alexander Pavlovich Meylakhs**  
Heat Transport across the metal-nanodiamond interface

- P6.13 **Nguyen Nguyen**  
Influence of the edge and substrate effects of zigzag graphene nanoribbons on atomic and electronic structures of the 8-ZGNR/h-BN(0001) interface.
- P6.14 **Veranika Pack**  
Effect of BaTiO<sub>3</sub> modification by shungite carbon deposition on the dielectric properties of polymer based composites containing modified BaTiO<sub>3</sub> as a filler
- P6.15 **Veranika Pack**  
ZnS:Cu phosphors modified by shungite nanocarbon deposition
- P6.16 **Nikolai Romanov**  
Infrared absorption studies of chemically modified nanodiamonds of dynamic synthesis
- P6.17 **Valentina Anatolevna Shmatko**  
H-SWCNT: X-ray absorption spectroscopy and semiempirical calculations.
- P6.18 **Filipp Shumilov**  
Would it be possible to control a synthesis process of Detonation diamonds?
- P6.19 **Aleksander Shvidchenko**  
The features of applicability of dynamic light scattering method for the size analysis of carbon nanoparticles in sols
- P6.20 **Andrey Sergeevich Solomatin**  
Highly tritium labeled detonation nanodiamond
- P6.21 **Oleksandr Vasyliovych Tomchuk**  
Small-angle scattering from detonation nanodiamonds as polydisperse particles with diffusive surface
- P6.22 **Alina Alekseevna Tomchuk**  
Study of cluster reorganization in C<sub>60</sub>/NMP/H<sub>2</sub>O solutions by dynamic light scattering
- P6.23 **Kseniya Alekseevna Ustimenko**  
Structure and optical properties of fullerene C<sub>60</sub> complex with dipyridinated iron(II) phthalocyanine [Fe(II)Pc(C<sub>5</sub>H<sub>5</sub>N)<sub>2</sub>]<sub>2</sub>•C<sub>60</sub>•4C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>
- P6.24 **Sofiya Piatrouna Varanovich**  
Anomalous absorption of ultra-thin pyrolytic carbon films
- P6.25 **Evgeny Vladimirovich Zhizhin**  
Photoelectron spectroscopy with angular and spin (SARPES) resolution for the study of systems based on graphene