



**The Sixth Asian School-Conference on Physics and
Technology of Nanostructured Materials**

ASCO-NANOMAT 2022

PROGRAMME

Institute of Automation and Control Processes FEB RAS

Far Eastern Federal University

Vladivostok

2022

General information

Plenary talk – 40 minutes including questions

Invited talk – 30 minutes including questions

Ordinary talk – 15 minutes including questions

Coffee break – 30 minutes

Lunch – 60 minutes

Organizers

**Institute of Automation and Control
Processes FEB RAS**



Far Eastern Federal University



Sponsor

«NT-MDT» Limited Liability company



Sunday, 24 April

09:00 – 20:00 Participants arrival at the airport of Vladivostok, transfer and accommodation

Monday, 25 April

08:15 – 09:00 Registration of participants in FEFU hotel

09:00 – 12:00 Master class sections for students

12:00 – 13:00 *Lunch*

12:00 – 13:00 Registration of participants in Middle Hall

MIDDLE HALL

13:00 – 13:20 Opening remarks

13:30 – 16:30 Physics of nanostructures and interfaces, self-organization processes, two-dimensional materials

16:30 – 17:00 *Coffee break*

17:00 – 17:30 Sponsor session

17:30 – 19:30 Plenary session

COLUMNED HALL

13:30 – 16:30 Ferromagnetic and ferroelectric materials, including nanomaterials, and spintronics

Tuesday, 26 April

09:00 – 12:00 Master class sections for students

12:00 – 13:00 *Lunch*

MIDDLE HALL

13:00 – 15:00 Laser nanofabrication, all-dielectric materials, nanomaterials: fundamentals and applications

15:00 – 15:15 *Technical break*

15:15 – 17:00 Laser nanofabrication, all-dielectric materials, nanomaterials: fundamentals and applications

17:00 – 17:30 *Coffee break*

17:30 – 19:30 Plenary session

COLUMNED HALL

13:00 – 14:30 Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A₃B₅ and A₂B₆ heterostructures: experiment, calculations and technology

14:30 – 14:45 *Technical break*

14:45 – 17:00 Photonic and electronic devices: integrated circuits, solar cells, nanophotonics, biophotonics

Wednesday, 27 April

- 09:00 – 10:30 Transfer to Primorsky Safari Park
10:30 – 13:30 Primorsky Safari Park tour
13:30 – 14:00 Transfer to Art-park Shtykovsky Prudy
14:00 – 17:30 Symposium lunch
17:30 – 19:00 Free time in Art-park
19:00 – 20:00 Transfer to FEFU Campus

Thursday, 28 April

- 09:00 – 12:00 Master class sections for students
12:00 – 13:00 *Lunch*

MIDDLE HALL

- 13:00 – 16:30 Laser nanofabrication, all-dielectric materials, nanomaterials: fundamentals and applications
16:30 – 17:30 *Poster session and coffee break*
17:30 – 19:30 Plenary session

COLUMNED HALL

- 13:00 – 16:30 Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties

Friday, 29 April

- 09:00 – 12:00 Master class sections for students
12:00 – 13:00 *Lunch*

MIDDLE HALL

- 13:00 – 15:45 Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A_3B_5 and A_2B_6 heterostructures: experiment, calculations and technology
15:45 – 16:20 *coffee break*
16:20 – 17:40 Plenary session
17:40 – 18:00 Award ceremony and closing remarks

COLUMNED HALL

- 13:00 – 15:45 Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties

Saturday, 30 April

- 08:00 – 16:00 Participants departure

**Programme of the Sixth Asian School-Conference on Physics and
Technology of Nanostructured Materials
ASCO-NANOMAT 2022**

SUNDAY, 24 APRIL

09:00 – 20:00 Participants arrival at the airport of Vladivostok, transfer and accommodation

MONDAY, 25 APRIL

Registration of participants in FEFU hotel **08:15 – 09:00**

Master class sections for students **09:00 – 12:00**

Lunch **12:00 – 13:00**

Registration of participants in Middle Hall **12:00 – 13:00**

MIDDLE HALL

Opening remarks **13:00 – 13:20**

**Physics of nanostructures and interfaces,
self-organization processes, two-dimensional materials** **13:30 – 16:30**
Chairman: *A.A. Saranin*

I.i.01 **D.V. Gruznev**, L.V. Bondarenko, A.Y. Tupchaya, Y.E. Vekovshinin,
Invited A.N. Mihalyuk, A.V. Zotov, A.A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Pb-based low-dimensional structures on silicon

I.i.02 **Mahesh Kumar**, Prince Sharma, Saurabh K. Siani, V.P. S. Awana
Invited *CSIR-National Physical Laboratory, New Delhi, INDIA*
Ultrafast Charge Carrier dynamics of topological insulators

I.i.03 **L.V. Bondarenko**, A.Y. Tupchaya, Yu.E. Vekovshinin, D.A. Olyanich,
Invited A.V. Matetskiy, N. V. Denisov, S.V. Ereemeev, A.N. Mihalyuk, Yu.P. Ivanov,
D.V. Gruznev, A.V. Zotov, A.A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Single layer nickel disilicide on surface and as embedded layer

- I.o.01 **A.S. Petrov**, A.I. Vergules, D.I. Rogilo, D.V. Sheglov, A.V. Latyshev
Rzhanov Institute of Semiconductor Physics of SB RAS, Novosibirsk, Russia
Morphological transformations on Si(111) surface induced by ($\sqrt{3}\times\sqrt{3}$)-Sn reconstruction formation
- I.o.02 **D.A. Tsukanov**, M.V. Ryzhkova
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Surface conductivity study of ultrathin Li layers on the reconstructed Si(111) surface
- I.o.03 A. Korol, A. Rybin, D. Kapitan, E. Vasiliev, M. Padalko, A. Perzhu, R. Volotovskiy, A. Makarov, Yu. Shevchenko, K. Soldatov, **V. Kapitan**, K. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Application of Convolutional Neural Networks for the Study of Spin Models
- I.o.04 **M.A. Padalko**, K.V. Nefedev
Institute of Applied Mathematics of FEB RAS, Vladivostok, Russia
The Axial Next-Nearest Neighbor 2D Ising Model Polynomial Solution
- I.o.05 S.A. Ponomarev, **D.I. Rogilo**, N.N. Kurus, L.S. Basalaeva, K.A. Kokh, A.G. Milekhin, D.V. Sheglov, A.V. Latyshev
Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia
In situ imaging of van der Waals epitaxy and sublimation of the Bi₂Se₃(0001) surface
- I.o.06 V. Kravtsov, T. Ivanova, A.N. Abramov, P.V. Shilina, P.O. Kapralov, D.N. Krizhanovskii, V.N. Berzhansky, V.I. Belotelov, I.A. Shelykh, **A.I. Chernov**, I.V. Iorsh
Moscow Institute of Physics and Technology, Dolgoprudny, Russia
Valley polarization of trions in TMDC interfaced with iron garnet

Coffee break

16:30 – 17:00

Chairman: *N.G. Galkin*

Sponsor session

17:00 – 17:30

S.01o «NT-MDT» Limited Liability company

Chairman: *N.G. Galkin*

Plenary session

17:30 – 19:30

Plenary 01 **S. Hasegawa**

The University of Tokyo, Tokyo, Japan

Two-dimensional atomic-layer materials

Plenary 02 **B. Pecz**

Institute for Technical Physics and Materials Science (MFA), Hungarian Academy of Science, Budapest, Hungary

2D nitrides grown in the confined space of graphene/SiC by intercalation and seen in the electron microscope

- Plenary 03 **D. Pavuna**
École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
Physics of artificial nanostructures and interfaces: The self-organization processes and quantum functionality

COLUMNED HALL

Ferromagnetic and ferroelectric materials, including nanomaterials and spintronics

Chairman: *A.V. Ognev*

13:30 – 16:30

- III.o.01 **A.Yu. Samardak** Y.S. Jeon, A.G. Kozlov, K.A. Rogachev, A.V. Ognev, E. Jeong, G.W. Kim, M.J. Ko, A.S. Samardak, Y.K. Kim
Far Eastern Federal University, Vladivostok, Russia
Complex magnetostatic interactions in Fe-Au barcode nanowire arrays
- III.o.02 **R.G. Burkovsky**, G.A. Lityagin, A.F. Vakulenko, A.E. Ganzha, R. Gao, A. Dasgupta, Bin Xu, A.V. Filimonov, L.W. Martin
Peter the Great Saint-Petersburg Polytechnic University, St.-Petersburg, Russia
Field-induced heterophase state in PbZrO₃ thin films
- III.o.03 **A.E. Klimov**, I.O. Akhundov, V.A. Golyashov, D.V. Gorshkov, D.V. Ishchenko, N.S. Pashchin, G.Yu. Sidorov, S.P. Suprun, A.S. Tarasov, E.V. Fedosenko, O.E. Tereshchenko
Rzhanov Institute of Semiconductor Physics of SB RAS, Novosibirsk, Russia
Magnetoresistance of MIS structure based on PbSnTe:In crystalline topological insulator film
- III.o.04 A.V. Davydenko, **N.N. Chernousov**, A.A. Turpak, A.G. Kozlov, A.S. Samardak
Far Eastern Federal University, Vladivostok, Russia
Dependence of the Dzyaloshinskii-Moriya interaction and chiral damping effect on the roughness of the lower Pd layer in the Pd/Co/Pd system
- III.o.05 **T.V. Mikhailova**, S.D. Lyashko, E.V. Skorokhodov, S.V. Osmanov, A.V. Karavainikov, A.L. Kudryashov, A.S. Nedviga, S.A. Gusev, A.N. Shaposhnikov
V.I. Vernadsky Crimean Federal University, Simferopol, Russia
Magnetoplasmonic structures with nanostructured layers of bismuth-substituted iron garnets
- III.o.06 **R.D. Ivantsov**, M.M. Mikhailov, I.S. Edelman, G.Y. Yurkin
Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia
Features of magnetic and magneto-optical properties of lanthanum manganite microparticles
- III.o.07 **Zh.Zh. Namsaraev**, M.A. Bazrov, M.E. Letushev, M.E. Stebliy
Far Eastern Federal University, Vladivostok, Russia
Investigation of the dependence of current induced magnetization switching in the W-CoTb-Ru structure
- III.o.08 **A.N. Kotelnikova**, T.I. Zubar, T.I. Usovich, M.I. Panasyuk, V.A. Fed'kin, O.D. Kanafiev, A.V. Trukhanov
SO "SPC NAS of Belarus for Materials Science", Minsk, Belarus
Effects of constant, pulse and pulse-reverse current modes on the electrodeposition of NiFe films

- III.o.09 **G.S. Suslin**, O.E. Ayanitov, E.V. Tarasov, A.V. Davydenko, D.O. Yushchenko, P.S. Nazarova, A.S. Samardak, A.V. Ognev, A.G. Kozlov
Far Eastern Federal University, Vladivostok, Russia
Magnetic properties of epitaxial Pd/Co(d)/CoO/Pd structures promising for spin-orbitronics
- III.o.10 **D.O. Ignatyeva**, D.M. Krichevsky, P.E. Zimnyakova, S. Xia, L. Bi, V.I. Belotelov
Vernadsky Crimean Federal University, Simferopol, Russia
All-dielectric metasurface with tunable magneto-optical response
- III.o.11 **S.D. Khanin**
S.M. Budienny Military Telecommunications Academy; Saint-Petersburg, Russia
Factor of nanohomogeneity in the formation and application of electronic properties of structurally disordered metal oxide materials
- III.o.12 **N.I. Plusnin**, E.V. Blinkova
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Effect of Si(001)2×1 surface wetting by Cu monolayers on granulation process and ferromagnetic properties of nanofilms consisting of Cu, Co and/or Fe layers

TUESDAY, 26 APRIL

Master class sections for students

09:00 – 12:00

Lunch

12:00 – 13:00

MIDDLE HALL

**Laser nanofabrication, all-dielectric materials,
nanomaterials: fundamentals and applications**

Chairman: A.A. Kuchmizhak

13:00 – 15:00

- V.i.01 **S. Kulinich**
Invited *Tokai University, Hiratsuka, Japan*
Laser- Prepared Nanomaterials for Gas Sensing
- V.i.02 K. Bronnikov, S. Gladkikh, K. Okotrub, A. Simanchuk, A. Zhizhchenko,
Invited A. Kuchmizhak and **A. Dostovalov**
Institute of Automation and Electrometry of the SB RAS, Novosibirsk, Russia
Highly regular Laser-Induced Periodic Surface Structures Formed on
Metals and Semiconductors
- V.i.03 **S.V. Zobotnov**, A.V. Kolchin, D.V. Shuleiko, D.E. Presnov, M.N. Martyshov,
Invited P.K. Kashkarov, P.I. Lazarenko, V.B. Glukhenkaya, T.S. Kunkel, S.A. Kozyukhin
Lomonosov Moscow State University, Moscow, Russia
Femtosecond laser modification of GST225 thin films: ripples
fabrication and reversible phase transitions
- V.i.04 A.A. Vasileva, D.V. Mamonova, **A.A. Manshina**
Invited *Saint-Petersburg State University, Saint-Petersburg, Russia*
Precision laser chemistry for functional metal and hybrid metal-carbon
nanostructures

Technical break

15:00 – 15:15

**Laser nanofabrication, all-dielectric materials,
nanomaterials: fundamentals and applications**

Chairman: A.A. Kuchmizhak

15:15 – 17:00

- V.o.01 **G.I. Tselikov**, A.V. Syuy, D.A. Panova, A.V. Arsenin, V.S. Volkov
Moscow Institute of Physics and Technology, Dolgoprudny, Russia
Optical properties of transition metal dichalcogenide nanoparticles
synthesized by laser ablation
- V.o.02 E.M. Khairullina, D.I. Gordeichuk, L. Logunov, A.Yu. Shishov, A.S. Levshakova,
I.I. Tumkin
Saint Petersburg University, St. Petersburg, Russia
Direct laser metallization from deep eutectic solvents: optimization of
chemical and physical parameters

- V.o.03 **Yu.M. Borodaenko**, S.O. Gurbatov, E.M. Khairullina, A.A. Kuchmizhak
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Deep-subwavelength plasmon nanoparticle-embedded laser-induced periodic surface structures on silicon
- V.o.04 **E.V. Zharkova**, A.V. Averchenko, I.A. Salimon, O.A. Abbas, P.J.A. Sazio, P.G. Lagoudakis, S. and S. Mailis
Skolkovo Institute of Science and Technology, Moscow, Russia
Photoelectrical characteristics of laser-printed transition metal dichalcogenides alloy
- V.o.05 Z.P. Fedorovich, O.A. Reutova, **E.D. Fakhrutdinova**, V.A. Svetlichnyi
Tomsk State University, Tomsk, Russia
Effect of laser treatment of TiO₂ on optical and photocatalytic properties
- V.i.05 **E.D. Sheremet**
Invited *Tomsk Polytechnic University, Tomsk, Russia*
Laser-induced nanomaterial-polymer composites: properties, mechanisms and applications

Coffee break

17:00 – 17:30

Chairman: *S.V. Makarov*

Plenary session

17:30 – 19:30

- Plenary 04 **T. Suemasu**
University of Tsukuba, Tsukuba, Japan
Formation of high-photoresponsivity BaSi₂ films on glass substrate by sputtering for thin-film solar cell applications
- Plenary 05 **D.V. Shtansky**
National University of Science and Technology MISIS, Moscow, Russia
Nanostructured materials for fighting bacterial and fungal infections
- Plenary 06 K. Koshelev, S. Kruk, E. Melik-Gaykazyan, Jae-Hyuck Choi, **A. Bogdanov**, Hong-Gyu Park, Yu. Kivshar
ITMO University, St. Petersburg, Russia
Linear and nonlinear physics of bound states in the continuum

COLUMNED HALL

Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A₃B₅ and A₂B₆ heterostructures: experiment, calculations and technology

Chairman: *S.V. Ovchinnikov*

13:00 – 14:30

- II.i.01 **T.S. Shamirzaev**
Invited *Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia*
Dynamic electron spin polarization

- II.o.01 A.V. Pavlikov, A.M. Sharafutdinova, I. M. Gavrilin, V.B. Zaytsev, **A.A. Dronov**, S.A. Gavrilov
National Research University of Electronic Technology – MIET, Zelenograd, Russia
Structure and optical properties of germanium nanowires subjected to thermal post-treatment
- II.o.02 **Yu.V. Luniakov**
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Pressure induced Mg₂Ge symmetry modifications — DFT evolutionary search results
- II.o.03 V.N. Bessolov, **E.V. Konenkova**, S.N. Rodin
Ioffe Institute, St. Petersburg, Russia
Semipolar GaN layers on nanostructured silicon: the technology, the properties
- II.o.04 **S.A. Ponomarev**, D.I. Rogilo, A.Y. Mironov, N.N. Kurus, A.G. Milekhin, D.V. Sheglov, A.V. Latyshev
Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia
Low-temperature hysteresis of $\beta \leftrightarrow \beta'$ phase transition in In₂Se₃/Si(111) films

Technical break

14:30 – 14:45

Photonic and electronic devices: integrated circuits, solar cells, nanophotonics, biophotonics

Chairman: *T.S. Shamirzaev*

14:45 – 17:00

- VI.i.01 **H. Uono**
Invited *Ibaraki University, Ibaraki, Japan*
Development of single crystalline Mg₂Si substrate for Mg₂Si SWIR sensor
- VI.o.01 **P. Lazarenko**, V. Kovaluyk, P. An, A. Prokhodtsov, V. Glukhenkaya, T. Kulevoy, A. Yakubov, A. Sherchenkov, S. Kozyukhin, G. Goltsman
National Research University of Electronic Technology – MIET, Zelenograd, Russia
Chalcogenide thin films for reconfigurable optical waveguide application
- VI.o.02 **A.V. Shevlyagin**, V.M. Il'yaschenko, A.V. Amosov
Institute for Automation and Control Processes, 5 Radio St., Vladivostok 690041, Russia
Semimetal CaSi₂ thin film: a nontrivial transparent conducting material for VIS-MIR applications
- VI.o.03 **D. Saponi**, S. Makarov
ITMO University, Saint Petersburg, Russia
CuSCN as hole transport material for perovskite solar cells
- VI.o.04 **N.W. Aung**, M.A. Pugachevskii, A.P. Kuzmenko
Southwest State University, Kursk, Russia
Studies on sensor properties of composite CuO/CNPs nanofilms obtained by electrophoretic synthesis

- VI.i.02 **O. Adiguzel**
Invited *Firat University, Elaziğ, Turkey*
Shape Reversibility and Thermoresponsive Reactions in Shape Memory Alloys
- VI.o.05 D.V. Pankin, I.E. Kolesnikov, A.G. Pilip, A.Egorova, **A.A. Manshina**
Saint-Petersburg State University, Saint-Petersburg, Russia
Photo-switchable phosphonates with modulated bioactivity

WEDNESDAY, 27 APRIL

<i>Transfer to Primorsky Safari Park</i>	<i>09:00 – 10:30</i>
<i>Primorsky Safari Park tour</i>	<i>10:30 – 13:30</i>
<i>Transfer to Art-park Shtykovsky Prudy</i>	<i>13:30 – 14:00</i>
<i>Symposium lunch</i>	<i>14:00 – 17:30</i>
<i>Free time in Art-park</i>	<i>17:30 – 19:00</i>
<i>Transfer to FEFU Campus</i>	<i>19:00 – 20:00</i>

THURSDAY, 28 APRIL

Master class sections for students

09:00 – 12:00

Lunch

12:00 – 13:00

MIDDLE HALL

**Laser nanofabrication, all-dielectric materials,
nanomaterials: fundamentals and applications**

Chairman: A.A. Kuchmizhak

13:00 – 16:30

- V.i.06 **D. Zuev**
Invited *ITMO University, St. Petersburg, Russia*
Laser-assisted nanofabrication of nanophotonic security labels
- V.o.06 **A.V. Shelaev**, Y.M. Sgibnev, S.L. Efremova, P.N. Tananaev, and A.V. Baryshev
Dukhov Automatics Research Institute (VNIIA), Moscow, Russia
Local crystallization of Bi:YIG thin films by laser annealing in a controlled atmosphere
- V.o.07 **S.A. Syubaev**, A.A. Kuchmizhak
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Laser printing of c-Si hemispherical Mie-nanoresonators toward implicit anti-counterfeit labels
- V.o.08 **V.B. Glukhenkaya**, N.M. Tolkach, P.I. Lazarenko, A.V. Romashkin, A.A. Sherchenkov, E.A. Lebedev
National Research University of Electronic Technology – MIET, Zelenograd, Russia
CW laser crystallization of GST thin films in multilayered conductive substrate for reflective display application
- V.o.09 **S.V. Starinskiy**, A.A. Rodionov, Yu.G. Shukhov, A.V. Bulgakov
S.S. Kutateladze Institute of Thermophysics SB RAS, Novosibirsk, Russia
Dependence of nanosecond laser damage threshold of metal immersed into water on dynamic of liquid boiling
- V.o.10 **A.B. Cherepekhin**, A.Y. Zhizhchenko, A.P. Porfirev, A.P. Pushkarev, S.V. Makarov, A.A. Kuchmizhak
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Direct femtosecond-laser imprinting of diffraction-optical elements in CsPbBr₃ perovskite microcrystals
- V.o.11 **G.P. Pavliuk**, A.Y. Zhizhchenko, O.B. Vitrik
Far Eastern Federal University, Vladivostok, Russia
Electrically-controlled deposition onto a hybrid superhydrophobic/superhydrophilic surface
- V.o.12 **A.A. Sergeev**, D.V. Pavlov, K.A. Sergeeva, A.A. Kuchmizhak
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Boosting photoluminescence of infrared-emitting quantum dots coupled to plasmonic nanoarrays

- V.o.13 **M. Tarabrin**
Bauman Moscow State Technical University, Moscow, Russia
 Cr:ZnS laser with depressed-cladding waveguide and the AR-
 microstructures
- V.i.07 **V. Lazarev**
 Invited *Bauman Moscow State Technical University, Moscow, Russia*
 Ultrawideband antireflection microstructures for optical surfaces in the
 mid-infrared range
- V.i.08 **S. Kudryashov**
 Invited *Lebedev Physical Institute, Moscow, Russia*
 Stealth scripts: photoluminescent microcoding in bulk diamonds by
 ultrashort laser pulses

Poster session

16:30 – 17:30

Chairman: *D.G. Gromov*

Plenary session

17:30 – 19:30

- Plenary 07 **S.V. Makarov**
ITMO University, Saint Petersburg, Russia
 Halide perovskite based nanophotonics: from fundamentals to
 applications
- Plenary 08 **Y. Nakamura**
Osaka University, Toyonaka, Japan
 Nanostructure design for thermoelectrics
- Plenary 09 **A.V. Dvurechenskii, A. Yakimov, A. Zinovieva, V. Zinovyev, A. Bloshkin, A. Nenashev, V. Kirienko**
Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia
 Collective effects in Si based quantum dot nanomaterials to tune
 functionality of nano nanoelectronic and nanophotonic components

COLUMNED HALL

Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties Chairman: *S.V. Gnedenkov*
13:00 – 16:30

- IV.o.01 **A.E. Sokolov, V.A. Dudnikov, Yu.S. Orlov, N.P. Shestakov, S.G. Ovchinnikov**
Kirensky Institute of Physics, Federal Research Center KSC SB RAS, Krasnoyarsk, Russia
 Anomalous optical and magnetic properties in nanocrystalline LaCoO₃
 and GdCoO₃
- IV.o.02 **D.G. Gromov, S.V. Dubkov, S.A. Gavrilov**
National Research University of Electronic Technology, Zelenograd, Russia
 Features of the Formation of Nanoparticles and Binary Nanoalloys
 during Thermal Evaporation and Condensation on an Inert Surface in
 Vacuum

- IV.o.03 **A.I. Neumoin**, D.P. Opra, S.L. Sinebryukhov, A.B. Podgorbunsky, S.V. Gnedenkov
Institute of Chemistry FEB RAS, Vladivostok, Russia
Mesoporous Na₂Ti₃O₇ materials with a coral-like hierarchical architecture constructed by nanotubes: Synthesis and properties
- IV.o.04 M.S. Gurin, M.D. Ostrikov, D.V. Gritcuk, A.O. Lembikov, M.I. Balanov,
D.S. Shtarev
Far Eastern Federal University, Vladivostok, Russia
On the issue of obtaining heterostructures based on copper molybdates by solid-phase synthesis
- IV.o.05 **A.I. Pleshkova**, M.A. Piatkova, K.V. Nadaraia, A.B Podgorbunsky,
S.L. Sinebryukhov, S. V Gnedenkov
Institute of Chemistry FEB RAS, Vladivostok, Russia
Influence of phenol red in Earl's solution on the corrosion properties of coated and uncoated Mg alloy
- IV.o.06 M.E. Shiryayev, A.V. Sysa, R.M. Ryazanov, **E.A. Lebedev**
National Research University of Electronic Technology, Zelenograd, Moscow, Russia
Thermal management to control the combustion behavior of Al-CuO multilayer thermites
- IV.o.07 **A.D. Nomerovskii**, A.S. Gnedenkov, S.L. Sinebryukhov, S. V. Gnedenkov
Institute of Chemistry FEB RAS, Vladivostok, Russia
Modification of the PEO-coating on MA8 Mg alloy using layered double hydroxide: electrochemical behavior, protective properties
- IV.o.08 **A.E. Sokolov**, O.S. Ivanova, E.S. Svetlitsky, K.A. Lukyanenko, A.V. Shabanov,
N.P. Shestakov, Ying-Zhen Chen, Yaw-Teng Tseng, Chun-Rong Lin
Kirensky Institute of Physics, Federal Research Center KSC SB RAS, Krasnoyarsk, Russia
Core-shell Fe₃O₄@C nanoparticles for magneto-mechanical destroy of Ehrlich ascites carcinoma cells
- IV.o.09 **I.A. Voloshchuk**, D.Yu. Terekhov, A.V. Babich, A.O. Yakubov, A.A. Sherchenkov
National Research University of Electronic Technology, Moscow, Zelenograd, Russia
Technology for the fabrication of thermoelectric legs by screen printing
- IV.o.10 **D.I. Tishkevich**
SSPA "Scientific and Practical Materials Research Centre of NAS of Belarus", Minsk, Belarus
Electrodeposited functional Bi films for shielding applications against ionizing radiation
- IV.i.01 **A. Vakhrushev**
Invited *Udmurt Federal Research Center of the Ural Branch of RAS, Izhevsk, Russia*
Modeling the formation processes of multilayer nanosystems
- IV.i.02 **E. Modin**
Invited *CIC Nanogune BRTA, San Sebastian, Spain*
3D electron microscopy of nanomaterials

FRIDAY, 29 APRIL

Master class sections for students

09:00 – 12:00

Lunch

12:00 – 13:00

MIDDLE HALL

Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A₃B₅ and A₂B₆ heterostructures: experiment, calculations and technology

Chairman: *D.L. Goroshko*

13:00 – 15:45

- II.i.02 **Y. Terai**
Invited *Kyushu Institute of Technology, Kitakyushu, Japan*
Growth and optical properties of ternary iron silicides
- II.o.05 **A.V. Shevlyagin**, V.M. Il'yaschenko, A.A. Kuchmizhak, E.V. Mitsai, D.V. Pavlov, A.V. Gerasimenko
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Black magnesium germanide: from Ge surface texturing to optical properties evaluation
- II.o.06 **M.V. Lebedev**, T.V. Lvova, A.N. Smirnov, V.Yu. Davydov, A.V. Koroleva, E.V. Zhizhin, S.V. Lebedev
Ioffe Institute, St. Petersburg, Russia
Coordination of atomic and electronic structure at chemically passivated n-InP(100) surfaces
- II.o.07 **A. El-Khouly**, A.M. Adam, I. Serhiienko, E. Chernyshova, A. Ivanova, V.L. Kurichenko, A. Sedegov, D. Karpenkov, A. Novitskii, A. Voronin, V. Khovaylo
National University of Science and Technology MISIS, Moscow, Russian Federation.
Transport and thermoelectric properties of FeV/Sb-based half-Heusler alloys
- II.o.08 **I.L. Tkhorzhevskiy**, P.S. Demchenko, A.S. Tukmakova, A.D. Sedinin, A.V. Asach., A.V. Novotelnova, M.K. Khodzitskiy
Tydex LLC St. Petersburg, Russia
Thermoreflectance method for thermal conductivity measurements of low dimensional objects
- II.o.09 **A.Yu. Egorov**, S.A. Blokhin, A.A. Blokhin, E.V. Pirogov, D.V. Denisov, L.Ya. Karachinsky, A.V. Babichev, I.I. Novikov, A.G. Gladyshev, E.S. Kolodeznyi, S.S. Rochas, V.N. Nevedomskii K.O. Voropaev, V.E. Bougrov, V.M. Ustinov
Alferov University, St. Petersburg, Russia
InGaAs/InGaAlAs and InGaAs/GaAsN superlattice based long wavelength VCSEL

- II.i.03 A. Y. Alekseev, **D. B. Migas**, A. B. Filonov, N.V. Skorodumova
Invited *Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus*
Structural features and quantum confinement effects in thin films of Mg₂Si and Ca₂Si
- II.i.04 **H. Tatsuoka**, S. Ito, K. Tanaka and Y. Shimura
Invited *Shizuoka University, Hamamatsu, Japan*
Synthesis of Si-based nanostructures from CaSi₂ crystals using metal chloride powder, vapor and aqueous solution

Coffee break

15:45 – 16:20

Chairman: *N.G. Galkin*

Plenary session

16:20 – 17:40

- Plenary 10 I.A. Tarasov, I.A. Yakovlev, M. Visotin, M.V. Rautskii, A.S. Tarasov, S.A. Lyaschenko, O.A. Maksimova, **S.N. Varnakov**, T.A. Andryushchenko, S.G. Ovchinnikov
Kirensky Institute of Physics, Federal Research Center KSC SB RAS, Krasnoyarsk, Russia
New ternary magnetic films of MAX phases
- Plenary 11 F. Muntyanu, V. Chistol, E. Condrea¹ and **A. Sidorenko**
Institute of Electronic Engineering and Nanotechnologies, Chisinau, Moldova
Topological features of quantum magnetotransport in Bi_{1-x}Sb_x (0 ≤ x ≤ 0.2) bicrystals

Award ceremony and closing remarks

17:40 – 18:00

COLUMNED HALL

Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties

Chairman: *D.S. Shtarev*

13:00 – 15:45

- IV.i.03 **S.A. Gavrilov**
Invited *National Research University of Electronic Technology, Moscow, Zelenograd, Russia*
The role of low-dimensional effects in electrochemical synthesis of nanomaterials
- IV.o.11 **V.P. Polishchuk**, A.M. Ziatdinov
Institute of Chemistry FEB RAS, Vladivostok, Russia
Electron paramagnetic resonance of zinc ferricyanide and their polyethylenimin-based nanocomposites
- IV.o.12 **D.S. Dilla**, E.V. Pustovalov, A.N. Fedorets
Far Eastern Federal University, Vladivostok, Russia
Cluster analysis of atomic structures in amorphous alloys

- IV.o.13 **I.M. Imshinetskiy**, V.V. Kashepa, K.V. Nadaraia, D.V. Mashtalyar,
S.L. Sinebryukhov, S.V. Gnedenkov.
Institute of Chemistry FEB RAS, Vladivostok, Russia
Influence of halloysite nanotubes incorporation on the properties of
PEO layers formed on MA8 alloy
- IV.o.14 **Yu. Nazarkina**, V. Benu, E. Grigoryeva, E. Eganova
*National Research University of Electronic Technology (MIET), Zelenograd, Moscow,
Russia*
Effect of tungsten disc electrode rotation rate on the growth of anodic
WO_x and its photocatalytic properties
- IV.o.15 **T.I. Zubar**
*SSPA “Scientific and Practical Materials Research Centre of NAS of Belarus”, Minsk,
Belarus*
Structure and mechanical properties of electrodeposited
nanostructured Ni-Fe films
- IV.o.16 **A.A. Sokolov**, D.P. Opra, S.L. Sinebryukhov, V.V. Zheleznov, A.B. Podgorbunsky
S.V. Gnedenkov
Institute of Chemistry FEB RAS, Vladivostok, Russia
Effects of group IV–VII elements doping on TiO₂ electrochemical
lithium storage performance
- IV.o.17 K. Girel, A. Burko, S. Zavatski, S. Dubkov, E. Grinakovskiy, D. Gromov,
D. Novikov, **H. Bandarenka**
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
Effect of a metal oxides interlayers on the properties of silver
nanoparticles in porous silicon for SERS spectroscopy
- IV.i.04 **Y. Shimura**, M. Okado, J. Utsumi and H. Tatsuoka
Invited
Shizuoka University, Hamamatsu, Japan
Formation of Group-IV polycrystalline alloys by crystallization control

SATURDAY, 30 APRIL

Participants departure

08:00 – 16:00

POSTER SESSION, 28 APRIL

Section I

Physics of nanostructures and interfaces, self-organization processes, two-dimensional materials

- I.p.01 **M.S. Aleshin**, A.N. Chibisov
Pacific National University, Khabarovsk, Russia
DFT study of the hole states charge density in Ge/Si structures
- I.p.02 **M.A. Chesnokov**, I.N. Nalivaiko, K.S. Soldatov, V.S. Strongin, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Dipole superspin ice on a trimerized triangular lattice
- I.p.03 **M.A. Chesnokov**, I.N. Nalivaiko, K.S. Soldatov, V.S. Strongin, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Low energy and ground states of trimerized dipole spin ice
- I.p.04 **D.A. Dronova**, A.S. Gavrilov, A.A. Dronov
National Research University of Electronic Technology, Zelenograd, Russia
Investigation of changes in the composition of anodic TiO₂ nanotubes at different stages of formation by AES and ToF SIMS methods
- I.p.05 **K. S. Ermakov**, V.N. Kharitonov, A. V. Davydenko, A. V. Ognev, A.S. Samardak
Far Eastern Federal University, Vladivostok, Russia
Crystal structure of cobalt films and nanostrips grown on a stepped Si(111)-5.55×5.55-Cu surface
- I.p.06 **A.V. Goncharov**, A.N. Chibisov
Pacific National University, Khabarovsk, Russia
External pressure effect on the structure and magnetization of 2D Ge with hole qubits
- I.p.07 **D.Yu. Kapitan**, P.D. Andriushchenko, A.E. Rybin, A.O. Korol, E.V. Vasiliev, M.A. Padalko, A.V. Perzhu, R.A. Volotovskiy, A.G. Makarov, Yu.A. Shevchenko, K.S. Soldatov, V.Yu. Kapitan, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
A neural networks approach to the thermodynamic averages calculation of the Edwards-Anderson spin glass model
- I.p.08 A. Perzhu, E. Vasiliev, M. Padalko, A. Korol, A. Rybin, D. Kapitan, R. Volotovskiy, A. Makarov, Yu. Shevchenko, K. Soldatov, **V. Kapitan**, K. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Monte Carlo Simulation of Magnetic Skyrmions
- I.p.09 **V.V. Mararov**, T.V. Utas, L.V. Bondarenko, A.Y. Tupchaya, Y.E. Vekovshinin, D.V. Gruznev, A.N. Mihalyuk, A.V. Zotov, A.A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Self-assembled growth of C₆₀ monomolecular layers at Ti/NiSi₂ atomic sandwich on Si(111)
- I.p.10 **I.N. Nalivaiko**, M.A. Chesnokov, K.S. Soldatov, V.S. Strongin, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Trident macrospin ice

- I.p.11 **G.M. Poletaev**, I.V. Karakulova, R.Yu. Rakitin
Polzunov Altai State Technical University, Barnaul, Russia
Molecular dynamics study of the influence of free volume and orientation of the crystallization front on its velocity in nickel
- I.p.12 **A.V. Prokhorenko**, A.A. Gnidenko, A.N. Chibisov, M.A. Chibisova
Pacific National University, Khabarovsk, Russia
Quantum-mechanical study of the substitution and adsorption of P atoms on silicene
- I.p.13 **D.I. Rogilo**, S.V. Sitnikov, S.A. Ponomarev, D.V. Sheglov, L.I. Fedina, A.V. Latyshev
Rzhanov Institute of Semiconductor Physics SB RAS, Novosibirsk, Russia
Silicon growth and etching by oxygen and selenium: evolution of Si(111)-7×7 surface structure and morphology
- I.p.14 **A.E. Rybin**, D.Yu. Kapitan, K.V. Nefedev, E.V. Vasiliev, M.A. Padalko, A.V. Perzhu, R.A. Volotovskiy, A.G. Makarov, Yu.A. Shevchenko, A.O. Korol, K.S. Soldatov, V.Yu. Kapitan, P.D. Andriushchenko
Institute of Applied Mathematics FEB RAS, Vladivostok, Russia
Parallel hybrid multispin Monte-Carlo method for the Edwards-Anderson spin glass model
- I.p.15 **M.V. Ryzhkova**, D.A. Tsukanov
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Structures and electrical conductance at the initial stages of magnesium growth on Si(111)-Pb surface
- I.p.16 **A.V. Slyshkin**, D.V. Gruznev, A.Y. Tupchaya, L.V. Bondarenko, A.N. Mihalyuk, A.V. Zotov, A. A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
High-quality GaSb(111) film on the Si(111) $\sqrt{3}\times\sqrt{3}$ -B surface
- I.p.17 A.N. Mihalyuk, V.G. Kotlyar, O.A. Utas, T.V. Utas, L.V. Bondarenko, **A.Y. Tupchaya**, D.V. Gruznev, A.V. Zotov, A.A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Solving a long-standing problem regarding atomic structure of Si(100)2×3-Ag
- I.p.18 **E.V. Vasiliev**, A.V. Perzhu, A.O. Korol, D.Yu. Kapitan, A.E. Rybin, M.A. Padalko, R.A. Volotovskiy, A.G. Makarov, Yu.A. Shevchenko, K.S. Soldatov, V.Yu. Kapitan, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Investigation a possibility of modeling skyrmions using the Monte Carlo method in flat lattices with various geometries
- I.p.19 **Y.E. Vekovshinin**, L.V. Bondarenko, A.Y. Tupchaya, A.N. Mihalyuk, A.V. Zotov, A.A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Nanoscale patterns in the mixed Pb and Tl atomic layer on NiSi₂/Si(111)
- I.p.20 **R.A. Volotovskiy**, Yu.A. Shevchenko, E.V. Vasiliev, D.Yu. Kapitan, A.E. Rybin, M.A. Padalko, A.G. Makarov, K.S. Soldatov, K.V. Nefedev, A.V. Perzhu
Institute of Applied Mathematics FEB RAS, Vladivostok, Russia
Modeling of thermodynamic properties of spin ice on a rhombic lattice

- I.p.21 **I.A. Yakovlev**, I.A. Tarasov
Kirensky Institute of Physics, Federal Research Center KSC SB RAS, Krasnoyarsk, Russia
Epitaxial growth of Mn_5Ge_3 on Si(111)
- I.p.22 **V.S. Zhdanov**, D.A. Olyanich, T.V. Utas, A.N. Mikhalyuk, N.V. Denisov,
A.V. Matetskiy, A.V. Zotov, A.A. Saranin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Investigation of the Ga films grown on Si(111)- $\sqrt{3}\times\sqrt{3}$ -Ga reconstruction.

Section II

Physics of semiconducting nanostructures and heterostructures, including silicide, 4th group material's alloy, A3B5 and A2B6 heterostructures: experiment, calculations and technology

- II.p.01 A.V. Babich, **A.S.Bozhedomova**, A.A. Sherchenkov, D. D. Glebova
National Research University of Electronic Technology – MIET, Zelenograd, Moscow, Russia
Investigation of thermal properties and crystallization kinetics of chalcogenide semiconductors compounds for the phase change memory application
- II.p.02 **S.A. Dotsenko**, K.N. Galkin, E.Yu. Subbotin, O.V. Kropachev, and N.G. Galkin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Formation and models of Mg_2Si seed layers on Si with (111), (100), and (110) orientations for Ca_2Si sacrificial epitaxy
- II.p.03 V.B. Bondarenko, **A.V.Filimonov**, E.Yu.Koroleva, Ravi Kumar
Peter the Great St. Petersburg Polytechnic University, St. Petersburg, Russia
Chaotic potential of charged dislocations in III-nitride heterojunctions at high temperatures
- II.p.04 **D.V. Fomin**, I.A. Astapov, A.V. Polykov
Amur State University, Blagoveshchensk, Russia
Formation of thin films of Mg_2Si on Si (111) and investigation of their electronic properties
- II.p.05 **K.N. Galkin**, O.V. Kropachev, A.M. Maslov, I.M. Chernev, E.Yu. Subbotin, N.G. Galkin, A.Yu. Alekseev and D.B. Migas
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
The electronic structure and optical properties of Ca_2Si films grown on silicon different oriented substrates and calculated from first principles
- II.p.06 **N.G. Galkin**, K.N. Galkin, O.V. Kropachev, I.M. Chernev, D.L. Goroshko, E.Yu. Subbotin and S.A. Dotsenko
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Comparison of the crystal structure and electronic interband transitions of Ca_2Si thin semiconductor films on $Al_2O_3(0001)$ and Si(111) substrates
- II.p.07 **D.L. Goroshko**, K.N. Galkin, I.M. Chernev, O.V. Kropachev, A.B. Cherepakhin and N.G. Galkin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Formation, structure and photoelectric properties of $Ca_2Si/Si-n$ and $Ca_2Si/Si-p$ diode structures

- II.p.08 **D.L. Goroshko**, **E.A. Chusovitin**, A.A. Dronov, I.M. Gavrilin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Raman and photoluminescence investigation of temperature stability of germanium nanowires obtained by electrochemical deposition
- II.p.09 **S.A. Kitan**, S.A. Dotsenko, D.L. Goroshko, K.N. Galkin, **E.A. Chusovitin**,
N.G. Galkin
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Raman investigation of amorphous and nanocrystalline SiSn alloys
- II.p.10 **A.V. Kochura**, Zaw Htet Aung, V.S. Zakhvalinsky, E.A. Pilyuk
South West State University, Kursk, Russia
Structural Properties of Cadmium Arsenide Magnetron Films on Different Substrates
- II.p.11 K.N. Galkin, **O.V. Kropachev**, I.M. Chernev, A.M. Maslov, E.Yu. Subbotin,
N.G. Galkin, A.Yu. Alekseev and D.B. Migas
Institute for Automation and Control Processes FEB RAS, Vladivostok, Russia
Formation, structure, and optical properties of textured CaSi and epitaxial CaSi₂ films on silicon substrates grown by MBE and RDE methods

Section III

Ferromagnetic and ferroelectric materials, including nanomaterials, and spintronics

- III.p.01 **M.V. Adigamova**, I.V. Lukiyanichuk, V.P. Morozova, I.A. Tkachenko
Institute of Chemistry FEB RAS, Vladivostok, Russia
Structure and magnetic properties of Fe-, Co-enriched composite titania coatings
- III.p.02 **A.K. Chepak**, L.L. Afremov
Far Eastern Federal University, Vladivostok, Russia
Field dependence of the Griffith phase in a dilute ferromagnet
- III.p.03 V.I. Belokon, **O.I. Dyachenko**, R.V. Lapenkov
Far Eastern Federal University, Vladivostok, Russia
Magnetic properties of amorphous alloys in a random field model
- III.p.04 **A.M. Frolov**, T.A. Pisarenko, G.S. Kraynova, N.V. Ilin, A.Yu. Ralin
Far Eastern Federal University, Vladivostok, Russia
The effect of high-speed nonequilibrium on morphologic and magnetic properties of melt-spun Co₅₈Ni₁₀Fe₅Si₁₁B₁₆ alloys
- III.p.05 L.L. Afremov, **I.G. Iliushin**
Far Eastern Federal University, Vladivostok, Russia
Dependence the metastability magnetic states of core/shell nanoparticles from interfacial exchange interaction
- III.p.06 **V.N. Kharitonov**, A.Yu. Samardak, M.Yu. Pavliuk, E.V. Tepnin, A.V. Ognev,
D.R. Khairtudinova, I. M. Doludenko.
Far Eastern Federal University, Vladivostok, Russia
Tuning of magnetic behavior of Cu/Co barcode nanowires for 3D-memory applications

- III.p.07 **M.A. Kuznetsova**, P.S. Nazarova, A.F. Shishelov, G.S. Suslin and A.G. Kozlov
Far Eastern Federal University, Vladivostok, Russia
Magnetic anisotropy and Dzyaloshinskii-Moriya interaction in ultrathin Pd/Co/Ta films
- III.p.08 **A.G. Makarov**, K.V. Makarova, Yu.A. Shevchenko, V.Yu. Kapitan, K.S. Soldatov, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Magnetic susceptibility and other properties of artificial dipole ice on a hexagonal lattice
- III.p.09 **K.V. Makarova**, A.G. Makarov, Yu.A. Shevchenko, V.Yu. Kapitan, K.S. Soldatov, K.V. Nefedev
Far Eastern Federal University, Vladivostok, Russia
Magnetic susceptibility and other properties of artificial dipole ice on the Cairo lattice
- III.p.10 **O.A. Maximova**, S.A. Lyaschenko, S.N. Varnakov, S.G. Ovchinnikov
Kirensky Institute of Physics, Federal Research Center KSC SB RAS, Krasnoyarsk, Russia
Magneto-ellipsometry for optically anisotropic structures
- III.p.11 **D.A. Petrov**, A. Thakur, P. Thakur, S.M. Zharkov, A.L. Suhachev, I.S. Edelman
Kirensky Institute of Physics, Krasnoyarsk, Russia
Magnetic properties and MCD spectroscopy of $\text{Co}_x\text{Zn}_{1-x}\text{Fe}_2\text{O}_4$ nanoparticles synthesized with a citrate precursor method
- III.p.12 **A.Yu. Ralin**, P.V. Kharitonskii, N.A. Zolotov, K.G. Gareev, Yu.A. Anikieva
Far Eastern Federal University, Vladivostok, Russia
Micromagnetic Modeling of the Superparamagnetic Fraction of Composites $\text{Fe}_3\text{O}_4\text{-Fe}_{3-x}\text{Ti}_x\text{O}_4$
- III.p.13 **K.A. Rogachev**, A.Yu. Samardak, A.G. Kozlov, V.N. Kharitonov, M.E. Steblyi, M.E. Letushev, M.A. Bazrov, Y.S. Jeon, E. Jeong, A.V. Ognev, A.S. Samardak, Y.K. Kim
Far Eastern Federal University, Vladivostok, Russia
Magnetic properties of CoFe alloy nanosprings depending on the coil thickness
- III.p.14 **V.Yu. Samardak**, V.N. Kharitonov, A.A. Belov, O.O. Shichalin, E.K. Papynov, A.S. Samardak, A.V. Ognev
Far Eastern Federal University, Vladivostok, Russia
Structure and magnetic properties of Nd-(Fe,Co)-B hard magnetic powders with and without Cu doping
- III.p.15 **V.S. Shatilov**, G.S. Suslin, E.V. Tarasov, K.L. Karimov, A.V. Ognev, A.G. Kozlov and A.S. Samardak
Far Eastern Federal University, Vladivostok, Russia
Magnetic properties of $[\text{Pd/Co/CoO}]_n$ superlattices
- III.p.16 **M.I. Sobirov**, A.Yu. Samardak, S. A. Azon, A.S. Samardak, A.V. Ognev
Far Eastern Federal University, Vladivostok, Russia
Synthesis and magnetic properties of electrodeposited Ni nanowires with a high aspect ratio

- III.p.17 **E.V. Tarasov**, H.S. Suslin, A.V. Gerasimenko, I.A. Tkachenko, A.G. Kozlov
Far Eastern Federal University, Vladivostok, Russia
Temperature studies of magnetic properties of Pd/Co/CoO epitaxial films

Section IV

Nanostructured coverages, nanocomposites, functional hybrid materials: formation, structure and properties

- IV.p.01 **T.A. Andryushchenko**, S.A. Lyaschenko, I.A. Tarasov, S.N. Varnakov
Reshetnev Siberian State University of Science and Technology, Krasnoyarsk, Russia
Electron spectroscopy for in-situ analysis of MAX-phases
- IV.p.02 **E.V. Antonov**, N.D. Prasolov, I.M. Sosnin, L.M. Dorogin
ITMO University, St.Petersburg, Russia
Special methods for catalysis of molecular crosslinking of composite materials based on polydimethylsiloxane
- IV.p.03 **O.D. Arefieva**, M.S. Vasilyeva, V.V. Tkachev
Far Eastern Federal University, Vladivostok, Russia
Sol-gel preparation and study photocatalysts ZnS-modified biogenic silica
- IV.p.04 **D.V. Balatskiy**, Yu.B. Budnikova, M.S. Vasilyeva, I.V. Lukiyanchuk
Institute of Chemistry FEB RAS, Vladivostok, Russia
Application of Mössbauer spectroscopy to characterize iron-containing oxide coatings formed on titanium by plasma electrolytic oxidation
- IV.p.05 K. Girell, K. Litvinova, A. Burko, S. Dubkov, A. Savitsky, D. Novikov, A. Tarasov, **H. Bandarenka**
Belarusian State University of Informatics and Radioelectronics, Minsk, Belarus
A thin-layer hafnium oxide as auxiliary layer obtained by atomic layer deposition onto macroporous silicon for SERS
- IV.p.06 **E.A. Belov**, K.V. Nadaraia, D.V. Mashtalyar, S. L. Sinebryukhov, S.V. Gnedenkov
Institute of Chemistry FEB RAS, Vladivostok, Russia
Anti-icing fluoropolymer-containing composite coatings on titanium alloys
- IV.p.07 **A.N. Dudin**, V.I. Iurina, V.V. Neshchimenko, Li Chundong
Amur State University, Blagoveshchensk, Russia
Radiation Induced Defects of Zinc Oxide Particles Star and Flower Shapes
- IV.p.08 **I.V. Egelskii**, M.A. Pugachevskii, A.P. Kuzmenko
The Southwest State University, Kursk, Russia
Characterization of titanium dioxide nanoparticles synthesized by hydrothermal method depending on subsequent cleaning approaches
- IV.p.09 **V.S. Filonina**, A.S. Gnedenkov, S.L. Sinebryukhov, A.N. Minaev, S.V. Gnedenkov
Institute of Chemistry FEB RAS, Vladivostok, Russia
In vitro corrosion performance of bioresorbable Mg-Ca alloy with hydroxyapatite-containing protective coating

- IV.p.10 **I.M. Gavrilin**, A.A. Dronov, N. Grevtsov, A. Pavlikov, A. Dronov, E. Chubenko, V. Bondarenko
National Research University of Electronic Technology (MIET), Zelenograd, Russia
Effect of heat treatment on the morphology and composition of Silicon-Germanium nanocomposite
- IV.p.11 **A.A. Gnidenko**, P.G. Chigrin
Khabarovsk Federal Research Center Institute of Materials Science of FEB RAS, Khabarovsk, Russia
Atomic and Electronic Structure of the YFeO₃ Surface with Oxygen Vacancies
- IV.p.12 **E. Grinakovskiy**, E. Lebedev, S. Dubkov, I. Mikhailov, D. Gromov
National Research University of Electronic Technology "MIET", Moscow, Russia
Structural and physical properties of NbO_x thin films deposited by reactive magnetron sputtering
- IV.p.13 **Mohamed Asran Hassan**, A. El-Khouly, I. Serhienko, E.A. Argunov, A. Sedegov, D. Karpenkov, D. Pashkova, M. Gorshenkov, A. Novitskii, A. Voronin, V. Kostishyn, V. Khovaylo
National University of Science and Technology MISIS, Moscow, Russia
Enhancing Transport and thermoelectric properties of Heusler based alloys
- IV.p.14 **O.S. Ivanova**, I.S. Edelman, A.E. Sokolov, E.S. Svetlitsky, Chun-Rong Lin, Ying-Zhen Chen, Yaw-Teng Tseng
Kirensky Institute of Physics, FRC KSC SB RAS, Krasnoyarsk, Russia
Selective adsorption capacity of Fe₃O₄@C nanoparticles with respect to organic cationic dyes
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