

Poster Session II, April 4, 2018

Nanobiotechnology, Biophysics and Biophotonics; Nanophotonics, Spectroscopy, Microcavities, Optics and Plasmonics; Spintronics, Electro- and Magneto-optics; Electric, Magnetic and Microwave Devices;

2-01 Effects of photodynamic treatment induced by continuous wave and pulsed irradiation of polymerase enzyme

Nikita Kaydanov,

St. Petersburg, Russian Federation

2-02 Energy Transfer in upconversion nanoparticles -phthalocyanine hybrid complexes

Daniil Gvozdev,

Moscow, Russian Federation

2-03 Construction of a solid-state model of human tracheobronchial tree for 23 airways generations

Viktoria Makevnina,

St. Petersburg, Russian Federation

2-04 Peculiarities of noncontact cardiac signal registration

Vsevolod Simon,

St. Petersburg, Russian Federation

2-05 Compact nuclear-magnetic spectrometer for non-destructive condition testing of biological objects

Nikita Myazin, N. Myazin, E. Rukin

St. Petersburg, Russian Federation

2-06 Influence of electrostatic interactions on cell-penetrating peptide-siRNA complex formation and intracellular delivery efficiency

Anna Svirina, A. Svirina, I. Terterov, V. Klimenko, S. Shmakov, N. Knyazev, A. Emelyanov, V. Vysochinskaya, A. Bogdanov

St. Petersburg, Russian Federation

2-07 Nanoparticle tracking analysis of extracellular vesicles revealed two populations of exosomes

Anastasiia Selenina,

St. Petersburg, Russian Federation

2-08 Diagnostic potential of the oral fluid for observation people with multiple dental caries by means of FTIR spectroscopy

Yana Plotnikova, Y. Plotnikova, P. Seredin, D. Goloshchapov, Y. Ippolitov, P. Vongsvivut

Voronezh, Russian Federation

2-09 Possible applications of bacterial cellulose in the manufacture of electrical insulating paper

Anna Stolpner, A. Stolpner, N. Zhuravleva, A. Reznik, D. Kiesewetter, A. Khripunov

St. Petersburg, Russian Federation

2-10 Development of a photometric method for the determination of albumin in nanoparticles

Vitaly Zorin, V. Zorin, D. Korolev, K. Gareev, E. Naumysheva, V. Postnov

St. Petersburg, Russian Federation

2-11 A studying of subphase temperature and dissolved ascorbic acid concentration influence on the process of Langmuir monolayer formation

MUHANNAD QASSIME,

Saratov, Russian Federation

2-12 Optical properties and functional surface characteristics of porous silicon nanoparticles for biomedicine applications

Anton Belorus,

St. Petersburg, Russian Federation

2-13 The fluorescent method of the bacterial contamination control on a meat surface

Daria Pogorelaya,

St. Petersburg, Russian Federation

2-14 Electric and magnetic properties of self-assembled protein films

Maksim Baranov,

St. Petersburg, Russian Federation

2-15 Controlled modification of hyaluronic acid for photoinduced reactions in tissue engineering

Anastasia Sochilina,

Moscow, Russian Federation

2-16 Microchip device with dry-stored reagents for Loop mediated isothermal amplification

Aleksandra Tupik,

St. Petersburg, Russian Federation

2-17 Investigation of the color effect of the test object on the pupil response

Daria Bobrova, D. Bobrova, M. Boronenko

Khanty-Mansiysk, Russian Federation

2-18 Kinetic model of protein crystals formation in capillaries by counter-diffusion technique

Andrei Sokolovskii, A. Sokolovskii, N. Besedina, V. Dubrovskii

St. Petersburg, Russian Federation

2-19 Effective application of independent components analysis in the task of gradual EMG control

Maxim Shamshin, M. Shamshin, S. Lobov, V. Makarov

Nizhny Novgorod, Russian Federation

2-20 Use of electrophoretic light scattering for investigation of the parameters of biological macromolecules

Ekaterina Savchenko, E. Savchenko, E. Nepomnyashchay, E. Velichko

St. Petersburg, Russian Federation

2-21 Brain-on-chip: engineering heterogeneous neural network and reproducing complex rhythmic activity in vitro

Vladimir Kolpakov, V. Kolpakov, I. Mukhina, V. Kazantsev, A. Pimashkin, Y. Pigareva, A. Gladkov, O. Antipova

Nizhny Novgorod, Russian Federation

2-22 Fluorescent detection and analysis of single molecules

Olga Kuznetsova,

St. Petersburg, Russian Federation

2-23 Non-invasive research of biological objects by the method of laser polarimetry

Maria Putintseva,

St. Petersburg, Russian Federation

2-24 In vitro model of CNS neuronal pathway recovery using microfluidic chips

Oksana Antipova,

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2-25 Investigation of Na/K ATPase role in cancer cells' functioning

*Sergei Perkov,
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2-26 Accuracy increase blood viscoelasticity measurement in the microfluidic Wheatstone-bridge

*Natalya Shipulya, N. Shipulya, S. Konakov
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2-27 Singlet oxygen generation mechanism in the presence of excited nanoporous silicon

*Dmitriy Samosvat, D. Samosvat, O. Chikalova, V. Khromov, A. Zegrya, G. Zegrya
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2-28 Synthesis of Cytotoxic Monodispersed Silver Nanoparticles based on Low-Power High-Voltage Discharge in Water Flow Method.

*Ekaterina Kuzina, E. Kuzina, L. Nadporozhskaya, D. Stupin, A. Kornev, A. Nashchekin, A. Lihachev
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2-29 Formation and manipulation of polyacrylamide spheroids doped with superparamagnetic nanoparticles in a microfluidic chip

*Daniil Nozdriukhin,
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2-30 Polylactide film deposition onto titanium surface from different solutions

*Yury Polikarpov,
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2-31 Study of step-emulsification method for water-in-oil monodisperse drops in microfluidic chips with different nozzle sizes

*Nikita Filatov,
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2-32 Novel one-step synthesis of Ag/AgCl nanoparticles via interaction between silver nitrate and amino acids hydrochlorides

*Vadim Ushakov,
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2-33 Phase diagrams of coil-globule transition in single-domain antibodies

*Andrey Sakharov, A. Sakharov, A. Yudenko, O. Chakchir, I. Eliseev
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2-34 Crystallization and X-ray structural studies of single-domain antibodies

*Igor Eliseev, I. Eliseev, A. Yudenko, O. Chakchir
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4-01 Hybrid plasmonic waveguide micro-ring resonator sensor

*Ali Butt,
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4-02 Magnetron sputtered MoS₂: optical and structural analysis

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4-03 Resolving power of the incoherent-apodized optical system beyond the Rayleigh limit

*NareshKumarReddy Andra, N. Andra, B. MA, K. SN
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4-04 Increasing the resolution of the aberrated optical system

*Pavel Khorin, P. Khorin, S. Fomchenkov
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4-05 Features of the statistics of charge carriers in microlaser

*Ekaterina Medvedeva,
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4-06 Optical properties and energy band parameters of luminescent CaMoO₄:Bi ceramics

*Roman Parulin, R. Parulin, I. Timoshenko, Y. Kuznetsova, A. Zatsepin, E. Buyanova, Z. Mikhaylovskaya,
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4-07 Polarization plane rotation for higher order modes in twisted optical fibers with discrete rotationally symmetric core

*Boris Lapin,
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4-08 Modeling of second harmonic generation by a hybrid bi-resonant nanoantenna

*Artem Goncharov,
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4-09 Silicon-based resonant nanostructures as a versatile optical tool for optical heating and thermometry at nanoscale

*George Zograf, G. Zograf, M. Petrov, S. Makarov
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4-10 Room temperature lasing from microdisk laser in aqueous medium

*Marina Fetisova, M. Fetisova, N. Kryzhanovskaya, E. Moiseev, S. Blokhin, K. Kotlyar, S. Scherbak, A.
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4-11 Self-assembly of lines of microscopic photonic crystals

*Matin Ashurov,
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4-12 Lattice dynamics of mixed aluminium-gallium borates HoAl_{13-x}Ga_x(BO₃)₄ single crystals

*Iurii Ereemeev,
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4-13 broadband nanoantenna

*Dmitrii Poletaev,
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4-14 Novel highly efficient blue-emitting branched oligoarylsilanes

*Maxim Skorotetcky, M. Skorotetcky, O. Borshchev, N. Surin, S. Ponomarenko
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4-15 Nonlinear Pulses in Dispersion-Managed Fiber-Optic Systems in Presence of High Losses

*Vladislav Neskorniuk,
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4-16 Study of optical pumping influence on carbon nanotubes permittivity in THz frequency range

*Daniel Gomon, D. Gomon, P. Demchenko, M. Khodzitsky, D. Lioubtchenko, I. Anoshkin
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4-17 Numerical study of optical properties of sphere-gap-cone hybrid nanoantenna

*Yali Sun,
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4-18 Active and passive phase stabilization for single-photon all-fiber Mickelson`s interferometer

*Mikhail Elezov,
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4-19 Binary diffractive optics for 3D-demultiplexing of OAM beams

*Alexey Porfirev,
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4-20 Temperature-dependent photoluminescence of nanoimprinted perovskite films

*Ekaterina Tiguntseva, E. Tiguntseva, Y. Kapitonov, M. Franckevicius, Z. Sadrieva, B. Balachandran, F. Komissarenko, Q. Gu, W. Hu, A. Bogdanov, A. Zakhidov, S. Makar
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4-21 The study of photoluminescence properties of AlGaAs/GaAs heterostructure after Ga⁺ focused ion beam etching

*Gleb Voznyuk, G. Voznyuk, I. Levitskii, M. Mitrofanov, D. Nikolaev, V. Evtikhiev
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4-22 Optical limiting in nanodiamond suspension: shortening of the laser pulses

*Roman Krivenkov, R. Krivenkov, K. Mikheev, T. Mogileva, N. Nunn, O. Shenderova, G. Mikheev
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4-23 New ultra high-speed all-optical coherent D-trigger

*Igor Chekhonin,
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4-24 Comparison of optical spectral devices in the framework of system approach

*Vasily Kazakov, V. Kazakov, O. Moskaletz, M. Vaganov
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4-25 Four-step fabrication of SERS-active microfluidic channels

*Elizaveta Gangrskaya,
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4-26 Spontaneous parametric downconversion of light by a resonant spherical nanoparticle

*Anna Nikolaeva, A. Nikolaeva, N. Olekhno, K. Frizyuk, M. Petrov
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4-27 Channel Waveguides and Their Systems Optically Induced in Photorefractive Surface Area of Lithium Niobate

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4-28 GaP and Si nanoantennas for emission rate control of single emitters in the visible

Anastasia Zalogina,
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4-29 Plasmonic amplification of terahertz radiation in a double-layer graphene nanoribbon array

Ilia Moiseenko,
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4-30 SERS induced by two coupled monolayers of Au plasmonic nanoparticles

Vladimir Kaydashev,
Rostov-on-Don, Russian Federation

4-31 Superconducting nanowire single-photon detector on lithium niobate

Eugene Smirnov, E. Smirnov, P. Zolotov, V. Kovalyuk, M. Lobino, B. Voronov, A. Korneev, G. Goltsman
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4-32 Study of charge relaxation in poled silicate glass

Dmitrii Raskhodchikov,
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4-33 Quantum logic and initialization of the Bell states of two coupled qubits by unipolar subnanometric pulses

Marina Denisenko,
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4-34 INDUCED BY INTRINSIC ILLUMINATING IMPURITY PHOTOCONDUCTIVITY IN GaSe

Bahadur Ahmadov, B. Ahmadov
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4-35 Luminescence of TiO₂ films with CdS quantum dots

Elena Popova,
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4-36 Second harmonic generation by metal core-dielectric shell spherical nanoparticles

Sergey Scherbak,
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4-37 Laser-deposited multi-yolk-shell Au-Ag@C nanoparticles as efficient SERS & adsorption material

Anna Vasileva,
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4-38 Influence of sputtering parameters on the main characteristics of ultra-thin vanadium nitride films

Philipp Zolotov,
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4-39 Magneto-plasmonic quasicrystal

Roman Komarov, R. Komarov, A. Kalish, M. Kozhaev, A. Kalish, B. Vladimir, V. Belotelov, V. Berzansky, A. Shaposhnikov, A. Prokopov
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4-40 Dielectric surrounding decimates eigenmodes of microdisk optical resonators

Aleksandr Raskhodchikov,
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4-41 Electron diffusivity measurements of ultrathin superconducting VN films

Nikita Romanov,

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4-42 Optical induction of phase diffraction structures by laser beams with Bessel-like profiles in photorefractive Lithium Niobate

Ivan Trushnikov,

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4-43 Focusing of high-order vortex laser beams by binary axicon with different numerical aperture

Dmitry Savelyev, D. Savelyev, S. Fomchenkov

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4-44 Apparatus distortion investigations in NEXAFS C1s-spectra on the example of fullerite C60

Alena Mingaleva,

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4-45 Raman lidar with for geocological monitoring

Julia Ruzankina, J. Ruzankina, V. Elizarov, A. Zhevlakov, L. Konopelko

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4-46 Surface metallic nanostructures for photoacoustic fiber-optic transducers

Alena Mikitchuk,

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4-47 Soft X-ray photoemission study of Ba/BiFeO₃ interface

Peter Dementev,

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4-48 Photoluminescence decay temperature dependence of colloidal CuInS₂/ZnS quantum dots

Elizaveta Voronina,

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4-49 UV-induced refractive index changes due to silver molecular clusters in photo-thermo-refractive glass

Maxim Stolyarchuk,

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4-50 Solution of problem of multiple light scattering from turbid suspensions via cross-correlation processing

Elina Nepomnyashchaya, E. Nepomnyashchaya, Z. Zabalueva

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4-51 Enhancement of spontaneous emission in Tamm plasmon structures

Azat Gubaydullin, A. Gubaydullin

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4-52 Phase diffractive optical elements development with high thickness precision based on direct laser writing in Al thin film

Sergey Fomchenkov, S. Fomchenkov, A. Porfirev

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4-53 Separation of inhomogeneous and homogeneous broadening manifestations in InGaAs/GaAs quantum wells by time-resolved four-wave mixing

Ivan Solovev,

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4-54 Magneto-resonance method of the relaxation rate measuring for the proton-containing flowing fluids composition studying

*Landysh Fatkhutdinova,
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4-55 Transmission of thermal imaging by using infrared bundle based on silver halide solid solution

*Alexander Shmygalev,
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4-56 On-chip single-photon spectrometer for visible and infrared wavelength range

*Vadim Kovalyuk,
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4-57 On-chip controlled placement of nanodiamonds with a nitrogen-vacancy color centers (NV)

*Sophia Komrakova,
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4-58 Experimental optimisation of O-ring resonator Q-factor for on-chip spontaneous four wave mixing

*Pavel An,
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4-59 Synthesis of plasmonic Ag nanoparticles irreversibly bound to the surface of plastic substrates

*Alexander Gorbachev,
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4-60 Optimization of contra-directional coupler based on silicon nitride Bragg rib waveguide

*Evgenia Zubkova,
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4-61 Research of the influence of the photovoltaic mechanism on the refractive index change in the photorefractive lithium niobate crystal

*Aleksei Pustozerov,
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4-62 Bolometric effect in detection of sub-THz radiation with asymmetric devices based on carbon nanotubes

*Maxim Moskotin,
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4-63 Silicon nitride nanophotonic circuit for on-chip spontaneous four-wave mixing

*Alexandr Golikov,
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4-64 Optimization of on-chip photonic delay lines for telecom wavelengths

*Alexey Prokhodtsov,
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4-65 Graphene-based tunability of chiral metasurface in terahertz frequency range

*Maxim Masyukov,
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4-66 Graphene-layer and graphene-nanoribbon FETs as THz detectors

*Yakov Matyushkin,
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4-67 Influence of excitons nonlocality on Mie resonances in halide perovskite nanoparticles

*Alexander Berestennikov,
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4-68 Purcell effect in the waveguide regime

*Konstantin Morozov,
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4-69 Strong coupling between excitons in transition metal dichalcogenides and optical bound states in the continuum

*Stanislav Sychev, S. Sychev, A. Bogdanov, K. Koshelev, Z. Sadrieva, I. Iorsh
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4-70 Experimental observation of symmetry protected bound state in the radiation continuum in the periodic array of ceramic disks

*Beliakov Mikhail, B. Mikhail, A. Bogdanov, P. Kapitanova, M. Balezin, Z. Sadrieva, A. Sadreev, Y. Nenasheva
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4-71 High-Q states and Strong mode coupling in high-index dielectric resonators.

*Sergey Gladishev,
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4-72 RIE for structuring E-field processed glasses

*Igor Reduto, I. Reduto, D. Raskhodchikov, V. Kaasik, Y. Svirko, A. Lipovskii
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4-73 Photodecomposition of organic/inorganic composite materials based on polyvinylpyrrolidone

*Anastasia Kulagina, A. Kulagina, V. Danilov, V. Klimenko, S. Shmakov, N. Volkova, S. Evstropiev
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4-74 New structures of singular beams for the creation of logical elements and optical traps

*Nataliya Shostka, N. Shostka, K. Olga
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4-75 Tamm magnetophotonic structures with Bi-substituted iron garnet layers at oblique incidence

*Tatyana Mikhailova, S. Tomilin, S. Lyashko, A. Shaposhnikov, A. Prokopov, A. Karavainikov, A. Bokova, V. Berzhansky
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4-76 Epitaxial films of garnet ferrite with anisotropy "easy plane" for magneto-optical eddy current flaw detection

*Nazar Lugovskoy, N. Lugovskoy, V. Berzhansky, S. Glechik
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5-01 The photoelectric properties of structure GaN/SiC/Si grown by the method of atoms substitution and plasma assisted molecular-beam epitaxy

*Alexander Grashchenko,
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5-02 Electrically controlled spin polarization in suspended GaAs quantum point contacts

*Dmitriy Pokhabov,
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5-03 The study of mechanical resonances of the phase electro-optic modulator based on LiNbO₃ for noise reduction of fiber-optic gyroscope

*Daria Pogorelaya, D. Pogorelaya, M. Smolovik, A. Vlasov, A. Aleynik, V. Stigalev
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5-04 Magneto-optical properties of metaphosphate and borate glasses

*Dmitrii Sobolev, D. Sobolev, A. Babkina, N. Nikonorov
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5-05 Investigation of the magnetic properties of manganese silicide grown on i-GaAs substrate by pulsed laser deposition

*Yurii Kuznetsov,
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5-06 Spontaneous polarization in smectic phases composed of bent-shaped molecules

*Evgeniya Filimonova,
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5-07 Magneto-optical effects in plasmonic crystals for detection of short wavelength spin waves

*Daria Sylgacheva, D. Sylgacheva, A. Kalish, V. Belotelov
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5-08 Enhancement the operating temperature of spin light-emitting diodes based on dilute magnetic semiconductors

*Mikhail Ved, M. Ved, E. Malysheva, M. Dorokhin, A. Zdoroveishev, Y. Danilov, A. Parafin
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5-09 Morphology of garnet films for thermo-magnetic recording

*Yelena Danishevskaya, V. Berzhansky, A. Nedviga, M. Bektemirova
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6-01 A 0.3-0.7 THz flux-flow oscillator integrated with the slot antenna and elliptical lens

*Nickolay Kinev,
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6-02 The development of the bistable micromechanical actuator for optical relay

*Yakov Enns,
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6-03 Calculation of high-frequency conductivity and Hall constant of a thin conductive layer in the view of equal specularly coefficients of its surfaces

*Oleg Savenko,
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6-04 Electrical and photoelectric characteristics of gallium oxide films obtained by HF-magnetron sputtering

*Alexander Tsymbalov,
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6-05 Effect of metal modifiers on the characteristics of resistive hydrogen sensors based on thin films of tin dioxide

*Aleksei Almaev,
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6-06 Discrete diffraction in network of magnonic crystals

*Anna Sharaevskaya, A. Sharaevskaya, E. BEGININ
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6-07 The study of optical properties of graphene intercalated with ferric chloride for application in terahertz photonics

*Anton Zaitsev,
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6-08 Lifetime testing of a MEMS switch with Pt-Pt contact

*Iliia Uvarov,
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6-09 Simulation of electrical conductivity of silicon diodes with bismuth implanted-ion profiles

*Sergey Loganchuk,
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6-10 Study of relative magnetoresistance of polycrystalline materials $(\text{GeSe})_{1-x}(\text{CuAsSe}_2)_x$ under high pressure conditions

*Vasilisa Zaikova,
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6-11 Aligned carbon nanotubes as a promising material for the creation the flexoelectrical nanogenerator

*Marina Ilina,
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6-12 How to take fraction-order derivative experimentally?

*Daniil Stupin,
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6-13 Ti/4H-SiC Schottky diode breakdown voltage with different thickness of 4H-SiC epitaxial layer

*Sergey Sedykh, S. Sedykh, S. Rybalka, A. Drakin, A. Demidov
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6-14 The influence of the deep level type on a switching time delay of GaAs avalanche S-diodes

*Tatyana Smirnova, T. Smirnova, V. Kopyev, V. Oleinik, I. Prudaev
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6-15 Accelerated degradation HEMT based on AlGaN / SiC

*Anton Evseenkov,
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6-16 Software complex for calculating the initial section of the current-voltage characteristics of a resonant-tunneling diode with the possibility of computer statistical experiment

*Kirill Cherkasov,
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6-17 Development of the sheet electron beam focusing system based on thermionic and field emission cathodes

*Aleksei Danilushkin,
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6-18 Increase of accuracy of capacitance parameters measurements of power semiconductor modules on base IGBT and FRD

*Dmitry Knyagin, D. Knyagin, A. Drakin, S. Rybalka, A. Demidov
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6-19 Gate leakage current in AlGaIn/GaN HEMT in terms of the phonon-assisted tunneling model

*Vladislav Volcheck, V. Volcheck, V. Stempitsky
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6-20 Influence of microwave electromagnetic field on the structure of polymers

*Ekaterina Vasinkina,
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6-21 Investigation and formation of a sorption gas sensor with a sensitive element based on carbon nanostructure with a complex relief

*Alexey Rezvan,
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6-22 Investigation of characteristics and modes of formation of a field emitter on the basis of carbon nanosystems

*Alexey Rezvan,
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6-23 Numerical simulation of induction heating of a carburizing container

*Aleksey Voyko,
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6-24 Measurements in microwave electrotechnology

*Svetlana Kalganova,
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6-25 Researching the n+-n-n+ GaN nanowire to make THz Gunn diode

*Alexey Mozharov, A. Bolshakov, P. Komissarenko, A. Vasiliev, V. Fedorov, G. Sapunov, I. Mukhin
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