CONFERENCE OPENING. PLENARY

Wednesday, Ferbuary 01, 2017, 10.00 Room 406

1. KRASNOK A.E.[1,2], MAKAROV S.V.[2], SAMUSEV A.K.[2], KIVSHAR Yu.S.[2,3], BELOV P.A.[2]
   [1]*University of Texas, Austin, USA*
   [2]*ITMO University, Saint Petersburg*
   [3]*Australian National University, Canberra, Australia*
   Silicon nanophotonics
2. RYABUSHKIN O.A.[1,2]
   [1]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
   [2]*Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS*
   Conception of the equivalent temperature in photonics
3. MOLCHANOV V.Ya., YUSHKOV K.B.
   National University of Science and Technology "MISIS", Moscow
   Processing of ultrafast laser fields by acoustooptic methods with subterahertz frequency
4. KRISHTOP V.V., GONCHAROVA P.S., TOLSTOV E.V., MAKSIMENKO V.A., LIVASHVILI A.I., LITVINOVA M.N., KIREEVA N.M., EFREMENKO V.G., SYUY A.V., POPOVA A.V.
   Far Eastern State Transport University, Khabarovsk
   Controlled interference filter for broadband radiation

POSTERS 1

Wednesday, Ferbuary 01, 2017, 12.00 Room 406

POSTERS 2

Wednesday, Ferbuary 01, 2017, 12.00 Room 407

Meeting 1

Wednesday, Ferbuary 01, 2017, 13.00 Room 406

5. ANDREEV A.L.[1], ANDREEVA T.B.[1], KOMPANETS I.N.[1,2]
   [1]*Lebedev Physical Institute of the RAS, Moscow*
   [2]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
   Conditions of achieving the hysteresis-free continuous gray scale in a display cell with the helix-free ferroelectric LC
6. SIDOROV N.V., PALATNIKOV M.N.
   I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
   Optical properties and secondary structure of lithium niobate single crystals
7. MAMBETOVA K. M., ARESTOV S.I., ORLIKOV L.N., SHANDAROV S.M., KULESHOV Yu.V.[1]
   Tomsk State University of Control Systems and Radioelectronics
   [1]*Crystal T Ltd, Tomsk*
   Dynamics of pyroelectric generation of electron beam by monocrystal samples of lithium niobate
8. MASHKOVICH E.A., SYCHUGIN S.A., BAKUNOV M.I.
   Lobachevsky State University of Nizhny Novgorod
   Conversion of ultrashort laser pulses into narrow-band terahertz radiation in a bulk lithium niobate crystal
9. NALBANTOV N.N., STROGANOVA E.V., GALUTSKIY V.V.
   Kuban State University, Krasnodar
   Threshold parameters of 1.5 μm laser generation in $LiNbO_3$:Er and $LiNbO_3$: Er, Yb non-uniformly doped crystals
10. KAPLUNOV I.A., GERASIMOV V.V.[1], KOLESNIKOV A.I.
    Tver State University
    [1]*Budker Institute of Nuclear Physics of SB RAS, Novosibirsk*
    Optical transmission of single crystalline germanium in the region of 40–700 sm^{-1}
11. NOVIKOV V.B., MAYDYKOVSKIY A.I., MANTSYZOV B.I., MURZINA T.V.
    Lomonosov Moscow State University
    The Borrmann effect in one-dimensional photonic crystals in the Laue geometry
12. CHUMANOV M.V.[1,2], PARGACHEV I.A.[1], SEREBRENNIKOV L.Ya.[1,2], KRAKOVSKY V.A. [1,2]
    [1]*Crystal T Ltd, Tomsk*
    [2]*Tomsk State University of Control Systems and Radioelectronics*
    Devices for second harmonic generation based on periodically poled RKTP crystal
13. VALITOVA A.F.[1], KORYUKIN A.V.[1,2], SALAKHOV M.Kh.[1,2]
    [1]*Kazan Federal University*
    [2]*Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan*
    Extraordinary reflection hybrid photonic-plasmonic crystal
14. BIKBAEV R.G.[1], PANKIN P.S.[1], VYUNISHEV A.M.[1,2]
    [1]*Siberian Federal University, Krasnoyarsk*
    [2]*Kirensky Institute of Physics SB RAS, Krasnoyarsk*
    The optical Tamm states at the interface between a photonic crystal and nanoporous silver

15. KOZLOV A.A., ABDULLAEV S.D., KARPOV V.M., IVANOV A.V.[1]
Moscow Technological University (Institution of Fine Chemical Technology)
[1]Lomonosov Moscow State University
Sensors for organic solvents based on photonic crystals
16. KRAISKII A.A., KRAISKII A.V.
Lebedev Physical Institute of the RAS, Moscow
About a possible mechanism to increase the probability of low-energy nuclear reactions in the crystal structures

Meeting 2

Wednesday, Ferbuary 01, 2017, 13.00 Room 407

17. DAYNEKO S.V., HENDSBEE A.D., WELCH G.C.
University of Calgary, Alberta, Canada
Green solvent processed fullerene-free organic solar cells with efficiency over 4.8%
18. ANTSYGIN V.D.[1], MAMRASHEV A.A.[1,2], NIKOLAEV N.A.[1,2], POTATURKIN O.I.[1,3]
[1]Institute of Automation and Electrometry SB RAS, Novosibirsk
[2]Institute of High current Electronics SB RAS, Tomsk
[3]Novosibirsk State University
Investigation of photoinduced semiconductor-metal phase transition in VO_2 films by spectroscopic methods
19. BEZRUCHENKO V.S.[1,2], MAHILNY U.V., STANKEVICH A.I., MURAVSKY Al.An.[1], MURAVSKI An.Al.[1]
[1]Belarusian State University, Minsk
[2]Institute of Chemistry of New Materials of NAS of Belarus, Minsk
Gradient aligning layers for liquid crystal lenses
20. SHAPIRO B.I., NEKRASOV A.D., MANULIK E.V.
Moscow Technological University (Institution of Fine Chemical Technology)
Metallocomplexis J-aggregates polymethine dyes as photosensors in organic electronics
21. ADAMOV G.E., GREBENNIKOV E.P., POROSHIN N.O., SHMELIN P.S.
JSC «CSRIT «Technomash», Moscow
Influence nanoparticles Ag/SiO_2 on BR photocycle
22. GORYAEV M.A.
The A.I. Herzen State Pedagogical University of Russia, Saint Petersburg
Dye sensitized photoeffect in silicon
23. PICHUGIN I.S., IGNATIEV A.I.
ITMO University, Saint Petersburg
Chlorine photo-thermo-refractive glass
24. BICHKOV A.B., KOZHINA A.S., MITYUREVA A.A., REZIKYAN A.G., SMIRNOV V.V.
Saint Petersburg State University
Dynamics of photoionization of lithium atom under the expose of strong, ultrashort X-ray radiation
25. BUSHMAKIN V.S.[1,2], COJOCARU I.S.[1,2,3], TSYGANOK V.V.[1,2,3]., LUCHNIKOV I.A.[1,2,3], DAVLETOV E.T.[1,2,3], KUBLIKOVA D.N.[1,2], PYATCHENKOV S.V.[1], SUKACHEV D.D.[1,4,5], AKIMOV A.V.[1,3,4]
[1]Russian Quantum Center, Scolkovo, Moscow region
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[3]Texas A&M University, City of College Station, USA
[4]Lebedev Physical Institute of the RAS, Moscow
[5]Harvard University, Cambridge, USA
Light assisted collisions in ultracold thulium
26. BELKO N.V.[1], SAMTSOV M.P.[1,2], GUSAKOV G.A.[1,2], TARASOV D.S.[1,2]
[1]Belarusian State University, Minsk
[2]Sevchenko research institute of applied physical problems, Minsk, Belarus
Spectral properties of nanostructures of indotricarbocyanine dye
27. ALIEV S.A., TROFIMOV N.S., CHEKHLOVA T.K.
Peoples' Friendship University of Russia, Moscow
Properties of gel-method synthesized titanium dioxide films
28. KONSTANTINOVA E.I.[1,2], BRYUKHANOV V.V.[1]
[1]Immanuel Kant Baltic Federal University, Kaliningrad
[2]Kaliningrad State Technical University
Nonradioactive resonance energy transfer between anthracene molecules and CdZnSZnS and CdZnSeS quantum dots in polymethylmethacrylate films

Meeting 3

Wednesday, Ferbuary 01, 2017, 16.00 Room 406

29. VIKULIN D.V., ALEXEYEV C.N., YAVORSKY M.A.
V.I. Vernadsky Crimean Federal University, Simferopol
A new mechanism of acousto-optic interaction in optical fibers
30. POROKHOVNICHENKO D.L., DYAKONOV E.A., VOLOSHINOV V.B.
Lomonosov Moscow State University
Optimal parameters of acousto-optical interaction in KRS-5 crystal
31. KUPREYCHIK M.I., BALAKSHY V.I.
Lomonosov Moscow State University
Acousto-optic interaction near optical axes in hyrotropic biaxial crystals
32. ANTONOV S.N., FILATOV A.L.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Acousto-optic technique for laser beam shaping

33. PETROV N.I., PUSTOVOIT V.I.
Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
Acousto-optic resonator with ultra-narrow bandwidth

34. IVANOV S.I., LAVROV A.P., MOLODYAKOV S.A., SAENKO I.I.
Peter the Great Saint-Petersburg Polytechnic University
Two-coordinate acousto-optic processor for estimation of parameters of radio emission from pulsars

35. MUKHAMADIEV A.A.
Ufa State Aviation Technical University
Creating all-optical information-measuring system based on the acousto-optic elements

36. BELKIN M.E., KLYUSHNIK D.A.
Moscow Technological University (MIREA)
Use of photonic approach for super-wide bandwidth RF signal interconnects construction

37. ZLOKAZOV E.Yu., NEBAVSKIY V.A., STARIKOV R.S.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Mathematical modeling of microwave photonic sampling WDM system

38. VINOGRADOVA I.L., SULTANOV A.Kh., ANDRIANOVA A.V.
Ufa State Aviation Technical University
Principles of fiber-optic chirping devices and functions performed by device

39. AVERCHENKO A.V.[1], ZOTOV A.M.[1], KOROLENKO P.V.[1,2], PAVLOV N.N.[1]
[1]*Lomonosov Moscow State University*
[2]*Lebedev Physical Institute of the RAS, Moscow*
The escalation of the wavefront disturbances of the light beams in transmit and receive paths of optical systems

40. ZACHINYAEV Yu.V., PLIVAK S.A., SHUMILIN A.S.
Southern Federal University, Taganrog
Secured data transmission system based on the VLC-technology with PLC interface

Meeting 4

Wednesday, Febuary 01, 2017, 16.00 Room 407

41. BORSHCHEV O.V., SKOROTETCKY M.S., SURIN N.M., PONOMARENKO S.A.
Enikolopov Institute of Synthetic Polymer Materials of RAS, Moscow
Nanostructured organosilicon luminophores as a new class of organic luminophores

42. KUZMIN N.N.[1,2], BOLDYREV K.N.[2], DOBRETSOVA E.A.[2]
[1]*Lomonosov Moscow State University*
[2]*Institute for Spectroscopy of the RAS, Troitsk*
Study of luminescent properties of gallium borates with the huntite structure

43. KUROCHKINA M.A., KONSHINA E.A.
ITMO University, Saint Petersburg
Luminescent properties variation of quantum dots CdSe / ZnS In LC matrix by electric field

44. STROKOVA Yu.A., SVYAKHOVSKIY S.E., SALETSKY A.M.
Lomonosov Moscow State University
Luminescence decay kinetics of donor molecules in one-dimensional annealed porous silicon photonic crystal

45. KORSHUNOV V.M.[1,2], AMBROZEVICH S.A.[1,2], TAIDAKOV I.V.[2], VITUKHNOVSKY A.G.[2,3]
[1]*Bauman Moscow State Technical University*
[2]*Lebedev Physical Institute of the RAS, Moscow*
[3]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
Luminescent properties of β diketonates of scandium (III)

46. METLIN M.T.[1], AMBROZEVICH S.A.[1,2], METLINA D.A.[1], TAIDAKOV I.V.[1], VITUKHNOVSKY A.G.[1,3]
[1]*Lebedev Physical Institute of the RAS, Moscow*
[2]*Bauman Moscow State Technical University*
[3]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
Luminescence of pyrazolic 1,3-diketone Pr(III) complexes with 1,10-phenanthroline

47. BUKHARIN M.A.[1,2], SKRYABIN N.N.[1,2], KHUDYAKOV D.V.[2,3], VARTAPETOV S.K.[3]
[1]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
[2]*Optosystems Ltd., Moscow*
[3]*Prokhorov General Physics Institute of the RAS, Moscow*
Analysis of thermal processes of permanent refractive index change under the influence of femtosecond emission in cumulative regime

48. BOLDYREV K.N., POPOVA M.N.
Institute for Spectroscopy of the RAS, Troitsk
Hyperfine structure in the spectra of $LiYF_4:Ho^{3+}$ in an external magnetic field

49. OSIPOV E.V., BELOGORLOV A.A., MARTYNOV I.L., DOVZHENKO D.S., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
A new method of embedding of conjugated polymers into porous silicon photonic structures

50. GARTMAN A.D., MAYDYKOVSKIY A.I., SVYAKHOVSKIY S.E., MITETELO N.V., EVLASHIN S.A., MURZINA T.V.
Lomonosov Moscow State University
Two-photon absorption in graphene oxide/silver nanoparticles composite material

51. KHARITONOV A.V.[1,2], KHARINCEV S.S.[1,2], FISHMAN A.I.[1], SALAKHOV M.Kh.[1,2]
[1]*Kazan Federal University*
[2]*Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan*
Raman lasing in titanium nitride plasmonic microresonator

52. ZEMSKOV K.I., KARPOVA O.V.[1], KUDRYAVTSEVA A.D., MIRONOVA T.V., PERSHIN S.M.[2], PETROVA E.K.[1], STROKOV M.A., TCHERNIEGA N.V.
Lebedev Physical Institute of the RAS, Moscow
[1]*Lomonosov Moscow State University*
[2]*Prokhorov General Physics Institute of the RAS, Moscow*
Stimulated low-frequency Raman scattering in suspensions of tobacco mosaic viruses and potato viruses (PVA and PVX)

Meeting 5

Thursday, Ferbuary 02, 2017, 10.00 Room 406

53. KOLYMAGIN D.A.[1], ZVAGELSKY R.D.[1], CHUBICH D.A.[1], VITUKHNOVSKY A.G.[1,2]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]Lebedev Physical Institute of the RAS, Moscow
Fabrication of 3D-periodic nano/microstructures for photonics by direct laser writing
54. MINAEV N.V.[1], TARKHOV M.A.[3], DUDOVA D.S.[1,2], BAGRATASHVILI V.N.[1]
[1]Institute of Photonic Technologies – branch of FSRC "Crystallography and Photonics" of the RAS, Troitsk
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[3]CJSC "Superconducting Nanotechnology", Moscow
Nonlinear femtosecond optical lithography
55. MENSOV S.N.[1,2], POLUSHTAYTSEV Yu.V.[2]
[1]Lobachevsky State University of Nizhny Novgorod
[2]Razuvaev Institute of Organometallic Chemistry of RAS, Nizhny Novgorod
Optical matching of fibers in photopolymerisable media
56. BOGACHKOV I.V., TRUKHINA A.I.
Omsk State Technical University
Problems of monitoring of modern fiber-optic communication lines
57. DMITRIEVA K.A., BORODAKO K.A., SHELYAKOV A.V., IVANOV A.A., TIMOFEEV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Application of laser radiation for creating micromechanical elements with two-way shape memory
58. VANIN A.I., SOLOVYEV V.G.
Pskov State University
Modeling of Fano resonance in nanostructured material
59. GAVRUSHKO V.V., IONOV A.S., KADRIEV O.R., LASTKIN V.A.
Yaroslav-the-Wise Novgorod State University
Optical characteristics of differential photodetectors based on silicon
60. LOGACHEV P.A., RUZHITSKAYA D.D., RYZHIKOV S.B., RYZHIKOVA Yu.V.
Lomonosov Moscow State University
Self-organizing of fractal clusters of dendritic systems
61. YAKUSHENKOV P.O.[1,2], BALAKLEYSKIY N.S.[1]
[1]National Research University of Electronic Technology "MIET", Zelenograd
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
Photonic integrated circuits
62. MASALSKY N.V.
Scientific Research Institute of System Researches of the RAS, Moscow
The quasi single mode optical waveguides on the basis of structure silicon on insulator
63. UKOLOV D.S., EGOROV A.N., MAVRITSKIY O.B., PECHENKIN A.A., CHUMAKOV A.I.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Solid immersion lens application for resolution enhancement of laser diagnostics of submicron semiconductor structures
64. ODINOKOV S.B., SAGATELYAN H.R.
Bauman Moscow State Technical University
Experimental study on plasma-chemical etching of glass

PLENARY 2

Thursday, Ferbuary 04, 2016, 13.00 Room 406

65. TRIBELSKY M.I.[1,2,3]
[1]Lomonosov Moscow State University
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[3]Moscow Technological University (MIREA)
Peculiarities of light scattering by particles with high refractive index
66. VOLOSTNIKOV V.G.
Samara Branch of the Lebedev Physical Institute
Optical vortices: the past, present and future
67. BARACHEVSKI V.A., KRAYUSHKIN M.M.[1], KYIKO V.V.[2]
Photochemistry Center of the RAS, Moscow
[1]Insitute of Organic Chemistry of the RAS, Moscow
[2]Prokhorov General Physics Institute of the RAS, Moscow
3D bitwise optical memory based on light-sensitive organic compounds
68. ARAKELIAN S.M., KUCHERIK A.O., KUTROVSKAYA S.V., OSIPOV A.V., KHORKOV K.S., ISTRATOV A.V.
Stoletovs Vladimir State University
Topological units of photonics: manifestation of quantum dimension effects in optical characteristics and electrical conductivity

POSTERS 3

Thursday, Ferbuary 02, 2017, 15.00 Room 407

POSTERS 4

Thursday, Ferbuary 02, 2017, 15.00 Room 406

Meeting 6

Thursday, Ferbuary 02, 2017, 16.00 Room 406

69. MAIMISTOV A.I.[1,2], LYASHKO E.I.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
The nonlinear surface waves on the interface between dielectric and topological insulator

70. MAKAROV V.A., PETNIKOVA V.M.
Lomonosov Moscow State University
Adiabatic modulation of cnoidal wave by Akhmediev breather

71. MELNICK M.V., TCYPKIN A.N., KOZLOV S.A.
ITMO University, Saint Petersburg
Theoretical analysis of the supercontinuum coherence time dependence on phase modulation coefficient

72. KAZANTSEVA E.V.
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Propagation of solitary waves in a Bragg grating which contains a localized spatial inhomogeneity of polarization of nonlinear resonantly absorbing periodic medium

73. SHESTERIKOV A.V., GUBIN M.Yu., GLADUSH M.G.[1], PROKHOROV A.V.
Stoletovs Vladimir State University
[1]Institute for Spectroscopy of the RAS, Troitsk
Formation of sub-picosecond plasmon pulses via cooperative effects in waveguide spaser

74. BAKHVALOVA T.N., GLADYSHEV I.V., SHANDRYUK N.G.
Moscow Technological University (MIREA)
Modeling propagation loss in integrated optical waveguides based on various material platforms

75. LYASHKO E.I.[2], MAIMISTOV A.I.[1,2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
Dispersion characteristics of a slab hyperbolic waveguide with nonlinear core

76. AKIMOV A.A., IVAKHNIK V.V., NIKONOV V.I.
Samara National Research University
Amplitude and spatial characteristics of the four-wave radiation converter on thermal nonlinearity in the scheme with positive feedback

77. IVAKHNIK V.V., SAVEL'EV M.V.
Samara National Research University
Transient four-wave mixing in a transparent nanoliquid

78. KULYA M.S., SEMENOVA V.A., OBRYVKIN A.S.., BESPALOV V.G.
ITMO University, Saint Petersburg
Study of group and phase velocities of THz pulsed vortex and quasi-Bessel beams

79. BYLINA M.S., CHAYMARDANOV P.A.
Bonch-Bruevich Saint-Petersburg State University of Telecommunications
Computer model of EDFA amplifier with multiple signals and pump sources

80. TCIBULNIKOVA A.V.[1,2], BRYUKHANOV V.V.[1]
[1]Immanuel Kant Baltic Federal University, Kaliningrad
[2]Kaliningrad State Technical University
The modeling of plasmons enhancement coefficients of two silver nanospheres cluster

Meeting 7

Thursday, Ferbuary 02, 2017, 16.00 Room 407

81. GLADYSHEV A.V., KOSOLAPOV A.F., KOLYADIN A.N., PRYAMIKOV A.D., BIRIUKOV A.S., YATSENKO Yu.P., BUFETOV I.A.
Fiber Optic Research Center of the RAS, Moscow
Raman generation at 1.9μm in hydrogen-filled hollow-core revolver fibers with nested capillaries

82. EGOROV F.A., POTAPOV V.T.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Dynamics of fiber lasers based on active micro-(nano) fibers with spontaneous lifetime modulation

83. NOSOV P.A., MARTYNOV G.N.[1]
Bauman Moscow State Technical University
[1]Lomonosov Moscow State University
Analysis of power optics for high power fiber laser processing heads

84. , VERGELES S.S.[1,2], OGORODNIKOV L.L.[2,3], LEBEDEV V.V.[1,2], KOLOKOLOV I.V.[1,2]
[1]Landau Institute for Theoretical Physics of the RAS, Chernogolovka
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[3]Skolkovo Institute of Science and Technology, Moscow region
The difference of random fiber laser statistics from Gaussian one

85. DURAEV V.P., MEDVEDEV S.V.
JSC "Nolatech", Moscow
Tunable single-frequency semiconductor lasers and its application

86. TOMILOV S.M., TARABRIN M.K., LAZAREV V.A., SHELESTOV D.A.
Bauman Moscow State Technical University
Thermostabilization system for mid-infrared solid state laser active media

87. KOZLOVSKII K.I., LISOVSKY M.I., PLEKHANOV A.A., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Features of broadband THz low-inductance discharge with laser initiation

88. SOROKIN Yu.V.
National Center of Laser Systems and Complexes Astrophysika, Moscow
Adder on photonic crystals

89. KOZLOV D.A.[1], KOTLYAR V.V.[1,2]
[1]Image processing systems institute of the RAS, Samara
[2]Samara National Research University
Sharp laser light focusing by a two-layer microcylinder with circular cross-section

90. VASILTSOV V.V., GALUSHKIN M.G., PANCHENKO V.Ya.
Institute on Laser and Information Technologies – branch of FSRC "Crystallography and Photonics" of the RAS, Shatura
Dynamic characteristics of channel formation in biotissue under CO_2 laser radiation

91. REPIN V.E.[1,2], NIKITIN D.G.[1,2], TYRTYSHNYY V.A.[2]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]IRE-Polus Corporation, Fryazino
Comparison of SiO_2/Ta_2O_5 antireflection coatings laser induced damage thresholds

92. KORONNOV A.A.[1], SAFUTIN A.E.[1], ZEMLYANOV M.M.[1], ZVEREV G.M.[1,2]
[1]JSC "POLYUS Research Institute of M.F. Stelmah", Moscow
[2]Moscow Institute of Physics and Technology (State University), Dolgoprudny
Durability of photodiodes to laser irradiation

Meeting 8

Friday, Ferbuary 03, 2017, 10.00 Room 406

93. SCHELEV M.Ya., MESHKOV O.I.[1], SHASHKOV E.V.
Prokhorov General Physics Institute of the RAS, Moscow
[1]Budker Institute of Nuclear Physics of SB RAS, Novosibirsk
Picosecond streak camera application for electron bunch diagnostics in accelerators

94. IVANOV A.D.[1], MINKOV K.N.[1,2], SAMOILENKO A.A.[1]
[1]All-Russian Research Institute for Optical and Physical Measurements, Moscow
[2]Moscow Institute of Electronics and Mathematics of Higher School of Economics
Optical microcavity as a primary measuring transducer with high sensitivity

95. VEDYASHKINA A.V., RINKEVICHYUS B.S., PAVLOV I.N.
National Research University "Moscow Power Engineering Institute"
Investigation of diffusion layer of liquid using refraction of structured laser radiation

96. BUSURIN V.I., KOROBKOV V.V., DIACHKOV V.V.
Moscow Aviation Institute (National Research University)
Interferometric method of processing of solid-state wave gyroscopes information

97. BARYSHNIKOV N.V., DENISOV D.G., KARASSIK V.E., KRASNOVA E.V., ORLOV V.M.
Bauman Moscow State Technical University
Analysis of the influence of noise in the ARS method of measurement errors of parameters of nanometer-level roughness of optical components profiles

98. MAKIN V.S., GLUSCHENKO L.A., PESTOV Yu.I.
Scientific Research Institute for Optoelectronic Instrument Engineering, Sosnovy Bor, Leningrad region
Pulsed wave remote sensing

99. STEPANOV V.A., BELIH V.V., AIZIKOVICH A.A.
Kalashnikov Izhevsk State Technical University
Information-entropy method of mapping the organs of human chest based on the multifractal analysis of the structure of roentgenograms

100. ZVERZHKHOVSKIY V.D., KRETUSHEV A.V., EVDOKIMOV A.A., FETISOV Yu.K.
Moscow Technological University (MIREA)
The comparison of different phase microscopy methods to living T lymphocytes determination

101. TALAIKOVA N.A.[1], RYABUKHO V.P.[1,2]
[1]Saratov National Research State University
[2]Institute of Precision Mechanics and Control of the RAS, Saratov
Manifestation of the spatial coherence effects in experiments by diffraction phase microscopy

102. PAVLOV I.N., RINKEVICHYUS B.S., TOLKACHEV A.V., VEDYASHKINA A.V.
National Research University "Moscow Power Engineering Institute"
Application of surface plasmon resonance method for visualization of phase transitions in a near-wall layer of water droplet

103. ARTYUKOV I.A., BUSAROV A.S., VINOGRADOV A.V., POPOV N.L.
Lebedev Physical Institute of the RAS, Moscow
X-ray lithography and microscopy at the inclined arrangement of masks and objects

104. KOMOTSKII V.A., SOKOLOV Yu.M., SUETIN N.V.
Peoples' Friendship University of Russia, Moscow
Device of a new type for periodical modulation of laser radiation

Meeting 9

Friday, Ferbuary 03, 2017, 13.00 Room 406

105. GIBIN I.S., NEJEVENKO E.S.
Institute of Automation and Electrometry SB RAS, Novosibirsk
Optoelectronic convolutional neural network for images recognition

106. BYKOVSKY A.Yu., SHERBAKOV A.A.[1]
Lebedev Physical Institute of the RAS, Moscow
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
Multiple-valued logic models for objects classification

107. PAVLOV A.V.
ITMO University, Saint Petersburg
On the effectiveness of correlated parts detecting by the superimposed holograms method in dependence of the properties of recording media

108. IVANOV P.A.
Yaroslavl State Technical University
DCCF and polynomial filters in problems of distorted images recognition
109. BUSURIN V.I., KNYAZ V.A., KOROBKOV K.A.
Moscow Aviation Institute (National Research University)
Method of processing combined «rough-precise» information in gestures recognition system
110. KOTOV V.M., SHKERDIN G.N., AVERIN S.V.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Optical image edge enhancement with the using of the acousto-optic filters from the gyrotropic material
111. VERENIKINA N.M., KOVALEV M.S., KOLOSOVA E.S., MALININA P.I.
Bauman Moscow State Technical University
Methods of correction phase distortion based on diffractive optical elements
112. KRASNOV V.V., MINAEVA E.D.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Application of direct search with random trajectory method for reduction of phase diffractive optical elements synthesis error
113. ARTYUKOV I.A., IRTUGANOV N.N.
Lebedev Physical Institute of the RAS, Moscow
The non-linear noise reduction with auto-fit parameters in microtomography studies of low-contrast objects
114. EVTIKHIEV N.N., STARIKOV R.S., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Accurate and rapid method of measurement of temporal noise of photo- and videocameras
115. KAPRANOV V.V., MATSAK I.S., TUGAENKO V.Yu., BLANK A.V.[1]
S.P. Korolev Rocket and Space Corporation Energia, Korolev
[1]Lomonosov Moscow State University
Background reduction laser illumination imaging based on dual-band camera-system
116. MOSHCHEV I.S.[1,2], KUZNETSOV P.A.[2]
[1]National Research University "Moscow Power Engineering Institute"
[2]JSC «RD&P Center «Orion», Moscow
320x256 InGaAs/InP photomodule for active imagers

Meeting 10

Friday, Ferbuary 03, 2017, 16.00 Room 406

117. TOLSTIK A.L.
Belarusian State University, Minsk
Polarization dynamic holography
118. MOROZOV A.V.[1], PUTILIN A.N., DUBYNIN S.E.[1], KOPENKIN S.S.[2], BORODIN Yu.P.[2,]
Lebedev Physical Institute of the RAS, Moscow
[1]Samsung Research Center, Moscow
[2]Moscow Technological University (MIREA)
Coherent backlight units for holographic display
119. SHEVKUNOV I.A., PETROV N.V., KATKOVNIK V.Ya.[1]
ITMO University, Saint Petersburg
[1]Tampere University of Technology, Finland
Reconstruction method for off-axis holograms based on multidirectional nonsymmetrical windows and intersection of confidence intervals rule
120. KALENKOV G.S.[1], KALENKOV S.G.[2], KISELEV V.A.[1,3], KLIMENKO S.V.[4]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]Moscow Polytechnic University
[3]Scientific and Technical Centre «Atlas». Moscow
[4]Institute of Physical and Technical Informatics, Protvino
Virtual environment, like the technology of visualization hyperspectral holograms
121. PETROV N.V.[1], SHEVKUNOV I.A.[1], BELASHOV A.V.[1,2], NALEGAEV S.S.[1], PUTILIN S.E.[1], LIN Y.-C.[3], CHANG C.-J.[3]
[1]ITMO University, Saint Petersburg
[2]Ioffe physical-technical institute of the RAS, Saint-Petersburg
[3]National Taiwan Normal University, Taipei, Taiwan
Time-resolved inline holography for investigation of optical nonlinear interaction
122. NAYDEN L.A., TSYGANOV I.K., ODINOKOV S.B.
Bauman Moscow State Technical University
Study of color holographic images producing methods by using diffraction gratings
123. ZINOVIEV A.P.
Institute of Applied Physics of the RAS, Nizhny Novgorod
Optimization of the data reconstruction method in the digital holography
124. ZLOKAZOV E.Yu.[1], KOVALEV M.S., KRASIN G.K., MALININA P.I., ODINOKOV S.B., TALALAEV V.Ye.
Bauman Moscow State Technical University
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Numerical calculation of Fresnel hologram for holographic optical sensors
125. PAVLOV P.V., MALOV A.N., POPOV F.N.
Air Force Academy named after prof. N.E. Zhukovsky and Yu.A Gagarin, Voronezh
A method for identifying defects in the internal structure of composite materials using digital speckle photography
126. DYACHENKO A.A.[1,2], RYABUKHO V.P.[1,2]
[1]Saratov National Research State University
[2]Institute of Precision Mechanics and Control of the RAS, Saratov
Effect of spatial and temporal spectral properties of the optical systems in polychromatic interference microscopy
127. GURYLEV O.A., ODINOKOV S.B., LUSHNIKOV D.S., ZHERDEV A.Yu., SHISHOVA M.V.
Bauman Moscow State Technical University
Design and research an optical system of linear encoder based on foursectional diffraction grating

128. KRAISKII A.V., POSTNIKOV V.A.[1], SHEVCHENKO M.A., SULTANOV T.T.
Lebedev Physical Institute of the RAS, Moscow
[1]Baikov Institute of Metallurgy and Materials Sciences of the RAS, Moscow
On the accuracy of determining the concentration of glucose in the blood plasma using holographic sensors

Posters 1
Wednesday, Ferbuary 03, 2017, 12.00

129. ANGERVAKS A.E., AKSENOVA K.A., RYSKIN A.I.
ITMO University, Saint Petersburg
Mid-infrared volume holographic filters creation method
130. SHEPELEVICH V.V., MAKAREVICH A.V., SHANDAROV S.M.[1]
I.P. Shamyakin Mozyr State Pedagogical University, Belarus
[1]Tomsk State University of Control Systems and Radioelectronics
The dependence of the output characteristics of holograms in the BTO crystal on its thickness
131. ROMASHKO R.V.[1,2], ASALKHANOVA M.A.[1], KULCHIN Yu.N.[1,2]
[1]Institute of Automation and Control Processes of FEB RAS, Vladivostok
[2]Far Eastern Federal University, Vladivostok
Adaptive interferometer based on orthogonal three-wave mixing in photorefractive crystal
132. ASHUROV M.S., GORELIK V.S.[1], KLIMONSKY S.O.
Lomonosov Moscow State University
[1]Lebedev Physical Institute of the RAS, Moscow
Optical properties of one-dimensional photonic crystals
133. KRAISKII A.A., KRAISKII A.V.
Lebedev Physical Institute of the RAS, Moscow
About the properties of increasing the amplitude of the field near the edge of the gap one-dimensional photonic crystal
134. PRUDNIKOV I.R.
Lomonosov Moscow State University
A resonant enhancement of light intensity in a 1-D photonic crystal-based interferometer with a thin spacer film
135. KRYUKOVA I.S., MARTYNOV I.L., DOVZHENKO D.S., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Modeling of optical properties of hybrid structures based on luminophores embedded into one-dimensional photonic crystal using FDTD method
136. KORYUKIN A.V.[1,2], SALAKHOV M.Kh.[1,2]
Kazan Federal University
[1]Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan
Transmission through self-assembled hybrid self-assembled photonic-plasmonic crystals
137. VYUNISHEV A.M.[1,2], BIKBAEV R.G.[2], PANKIN P.S.[2], SVYAKHOVSKIY S.E.[3]
[1]Kirensky Institute of Physics SB RAS, Krasnoyarsk
[2]Siberian Federal University, Krasnoyarsk
[3]Lomonosov Moscow State University
Band formation in quasiperiodic photonic crystals
138. INYUSHOV A.V., TRUSHNIKOV I.A., SAFRONOVA P.K., SARKYT A., SHANDAROV V.M.
Tomsk State University of Control Systems and Radioelectronics
Optical generation of one-dimensional photonic structures with Bessel-like profile in lithium niobate
139. TEPLYAKOVA N.A., SIDOROV N.V., PALATNIKOV M.N.
I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Optical properties of the crystal $LiNbO_3$:Fe(0.02):Zn(4.34) mol.%
140. SYUY A.V., KILE E.O., PROKOPIV N.N., SIDOROV N.V.[1], PALATNIKOV M.N.[1]
Far Eastern State Transport University, Khabarovsk
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Study of homogeneous lithium niobate crystal by interference-polarization method
141. VERKHOTUROV A.O., SHANDAROV V.M.
Tomsk State University of Control Systems and Radioelectronics
Optical formation of diffraction structures in lithium niobate with photorefractive surface layer
142. MANUKOVSKAYA D.V., SIDOROV N.V., PALATNIKOV M.N.
I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Fractal analysis of photoinduced light scattering pictures in lithium niobate crystals with low photorefractive effect
143. SYUY A.V., KILE E.O., PROKOPIV N.N., SIDOROV N.V.[1], PALATNIKOV M.N.[1]
Far Eastern State Transport University, Khabarovsk
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Electro-optical properties of lithium niobate crystals
144. LITVINOVA M.N., POGODINA V.A., SYUY A.V., KRISHTOP V.V., SIDOROV N.V.[1], PALATNIKOV M.N.[1]
Far Eastern State Transport University, Khabarovsk
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Conversion of broadband infrared radiation and the structural disorder in Zn doped lithium niobate crystals
145. PUSTOZEROV A.V., RYABCHENOK V.Yu., SHANDAROV V.M.
Tomsk State University of Control Systems and Radioelectronics
An influence of incoherent background illumination on a sign of nonlinear optical response of a lithium niobate crystal
146. GALUTSKIY V.V., KUZORA V.F., STROGANOVA E.V.
Kuban State University, Krasnodar
Applying gradient PPLN:Er^{3+} to amplify the optical signals

147. PIKOUL O.Yu., SIDOROV N.V.[1], TEPLYAKOVA N.A.[1], PALATNIKOV M.N.[1]
Far Eastern State Transport University, Khabarovsk
[1]I.V. Tananaev Institute of Chemistry and Technology of Rare Elements and Mineral Raw Materials of Kola Science Center of the RAS, Apatity, Murmansk region
Optical homogeneity of lithium niobate single crystals of congruent composition

148. DYU V.G., KISTENEVA M.G., SHANDAROV S.M., MOSHKINA M.D.
Tomsk State University of Control Systems and Radioelectronics
Optical absorption spectra of $Bi_{12}TiO_{20}$:Ca crystal exposed by sequential illumination to short- and long-wavelength radiation

149. IVANOVA A.I., TRETIAKOV S.A., SLOBODYANYUK K.A., TARGONIY A.A.
Tver State University
The influence of surface characteristics on the optical transmission of germanium single crystals

150. TRETIAKOV S.A., KAPLUNOV I.A., TARGONIY A.A., SLOBODYANYUK K.A.
Tver State University
The determination of the emissivity of germanium crystals with different roughness of surface

151. MOLCHANOVA A.D., BOLDYREV K.N.
Institute for Spectroscopy of the RAS, Troitsk
Narrow resonance lines in the terahertz spectra of the $Cu_3B_2O_6$ single crystal: nature and properties

152. IVANOVA S.V.
Lebedev Physical Institute of the RAS, Moscow
Incommensurately phases in nanodomain crystal

153. KHUDYAKOVA E.S., SHANDAROV S.M., KISTENEVA M.G., DYU V.G., SMIRNOV S.V., KORNIENKO T.A.[1]
Tomsk State University of Control Systems and Radioelectronics
[1]Belarusian State University, Minsk
Thermoinduced changes in optical absorption in the undoped bismuth germanium oxide crystals

154. ANANYEV P.S., MARTYNOV I.L., OSIPOV E.V., DOVZHENKO D.S., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Temperature influence on optical properties of porous silicon microcavities

155. KOLESNIKOV A.I., KAPLUNOV I.A., LYAKHOVA M.B., TRETIAKOV S.A., AIDINYAN N.V.
Tver State University
Azimuthal maxima in indicatrices of light reflection by polished single crystal surfaces

156. ILINA E.A.[1], KHMELEV A.Yu., YURINA U.V.[2], SIDOROV A.I.[1,3]
[1]ITMO University, Saint Petersburg
[2]Peter the Great Saint-Petersburg Polytechnic University
[3]Saint-Petersburg State Electrotechnical University "LETI"
Optical information recording in LiF and KBr crystals by electron beam

157. .SOKOLENKO B.V, POLETAEV D.A., KOVALYOVA A.O., PETROV N.V.[1], SHEVKUNOV I.A.[1]
V.I. Vernadsky Crimean Federal University, Simferopol
[1]ITMO University, Saint Petersburg
Transformation of singular beam phase propagating in uniaxial crystal

158. KOSTRITSKII S.M., KORKISHKO YU.N., FEDOROV V.A.
RPC Optolink Ltd, Zelenograd
Electrooptic 1x2 switch based on channel waveguides in $LiNbO_3$ crystals

159. DYAKONOV E.A., POROKHOVNICHENKO D.L.
Lomonosov Moscow State University
Semicollinear regime of interaction of terahertz electromagnetic waves with ultrasound in paratellurite crystals

160. NIKITIN P.A.
Lomonosov Moscow State University
Quasi-orthogonal acousto-optic diffraction on vortex sound beam

161. AKIMOVA Ya.E., EGOROV Yu.A., HALILOV S.I.
V.I. Vernadsky Crimean Federal University, Simferopol
Experimental study of the disturbed beam Bessel-Gauss shaped cone of wave vectors that carry fractional topological charge

162. ISMAILOV I.A., LAPAYEVA S.N.
V.I. Vernadsky Crimean Federal University, Simferopol
Topological reaction to the distribution uniaxial crystal right-circular polarized optical quarks

163. KOVALYOVA A.O., RUBASS A.F., PETROV N.V.[1], SHEVKUNOV I.A.[1]
V.I. Vernadsky Crimean Federal University, Simferopol
[1]ITMO University, Saint Petersburg
Conversion angular momenta in a circularly polarized singular beam with fractional topological charge

164. KUZYAKOV B.A., IVANOV P.A., SKVORTSOV E.A., TIHONOV R.V.
Moscow Technological University (MIREA)
The quality of the passing laser beam in the perturbed atmosphere

165. PLJONKIN A.P.
Southern Federal University, Taganrog
Detection of photon impulse of synchronization in quantum key distribution system

166. ZLOKAZOV E.Yu., KRASNOV V.V., NEBAVSKIY V.A., OSIPOV V.G.[1], SOLYAKIN I.V., STARIKOV R.S., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]Research Centre «Module», Moscow
Model of microwave sampling system

167. PETROV N.I., DANILOV V.A., POPOV V.V.[1], USIEVICH B.A.[2]
Scientific and Technological Center of Unique Instrumentation of the RAS, Moscow
[1]Lomonosov Moscow State University
[2]Prokhorov General Physics Institute of the RAS, Moscow
Subwavelength diffractive gratings of visual range

168. BOGACHKOV I.V., TRUKHINA A.I.
Omsk State Technical University
Increase of the detection efficiency of leak channels in optical fibers

169. KUZYAKOV B.A. IVANOV P.A., PLOSKIREV A.E., SKVORTSOV E.A.
Moscow Technological University (MIREA)
Perfection fiber-optical concordance unit for complex lines telecommunications

170. CHAYMARDANOV P.A.
Bonch-Bruevich Saint-Petersburg State University of Telecommunications
New design procedure for solving EDFA amplifier based on erbium-doped silica fiber
171. BOGACHKOV I.V., KOMPANEETS O.E.
Omsk State Technical University
Research of the Mandelstam - Brillouin backscattering in single-mode optical fibers with special profiles
172. BOGACHKOV I.V.
Omsk State Technical University
Research of temperature dependences of Brillouin frequency shift in optical fibers of different types
173. BOGACHKOV I.V.
Omsk State Technical University
Experimental research of Brillouin frequency shift from longitudinal stretching forces in optical fibers of different types
174. ROMASHCHUK Ye.V.
Siberian State University of Telecommunications and Informatics, Novosibirsk
Non-linear effects on far distances

Posters 2
Wednesday, Ferbuary 03, 2017, 12.00

175. DANILOV P.A.[2], KUDRYASHOV S.I.[2], LITOVKO E.P.[2,3], UMANSKAYA S.F.[1,2]
[1]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
[2]*Lebedev Physical Institute of the RAS, Moscow*
[3]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
Reactive magnetron sputtering and research of metal-dielectric metasurfaces with epsilon-near-zero
176. VOITSEKHOVSKII A.V., KULCHITSKY N.A.[1], NESMELOV S.N., DZYADUKH S.M.
National Research Tomsk State University
[1]*Moscow Technological University (MIREA)*
MIS structures based on graded-gap MBE HgCdTe for infrared detectors
177. VOITSEKHOVSKII A.V., KULCHITSKY N.A.[1], NESMELOV S.N., DZYADUKH S.M.
National Research Tomsk State University
[1]*Moscow Technological University (MIREA)*
Effect of illumination on admittance of MIS structure based on graded-gap MBE HgCdTe
178. KUZNETZOV P.I., AVERIN S.V., ZHITOV V.A., ZAKHAROV L.Yu., KOTOV V.M.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
Visible light photodetector on the base of ZnSe/ZnTe superlattice
179. IVANOV V.I., PERKOV Yu.O.
Far Eastern State Transport University, Khabarovsk
A photodetector based on the metal-ferroelectric-metal sandwich system
180. GANZHERLI N.M., GULYAEV S.N.[1], MAURER I.A.
Ioffe physical-technical institute of the RAS, Saint-Petersburg
[1]*Peter the Great Saint-Petersburg Polytechnic University*
Creation of holographic structures on dichromated gelatin - organic polymer composite
181. MAHILNY U.V.[1], STANKEVICH A.I.[1], TROFIMOVA A.V.[1], BEZRUCHENKO V.S.[1,2]
[1]*Belarusian State University, Minsk*
[2]*Institute of chemistry of new materials of NAS of Belarus, Minsk*
Photoinduced planar LC alignment on the layers of benzaldehyde polymers containing long alkyl side chains
182. SHKURAK I.N.[1], SELYUKOV A.S.[1,2], VITUKHNOVSKY A.G.[1,2], ISAEV A.A.[2], KORSHUNOV V.M.[2,3], VASILIEV R.B.[4]
[1]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
[2]*Lebedev Physical Institute of the RAS, Moscow*
[3]*Bauman Moscow State Technical University*
[4]*Lomonosov Moscow State University*
Photoinduced nonlinearity in colloidal solutions of planar and spherical CdSe nanocrystals
183. BOZHENKO M.V., RASIN A.B., CHUSOVITIN E.A., YAN D.T.[1]
Institute of Automation and Control Processes of FEB RAS, Vladivostok
[1]*Far Eastern State Transport University, Khabarovsk*
Photoluminescence properties of porous silicon formed on the plasma-treated substrate
184. SOLOVEY V.R.[1], SELYUKOV A.S.[1,2], VITUKHNOVSKY A.G.[1,2], VASILIEV R.B.[3], LAZAREVA E.P.[3]
[1]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
[2]*Lebedev Physical Institute of the RAS, Moscow*
[3]*Lomonosov Moscow State University*
Photophysical properties of planar CdTe nanocrystals in electric field
185. ASADULLINA A.R.[1], KHARINCEV S.S.[1,2]
[1]*Kazan Federal University*
[2]*Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan*
Photoinduced surface deformation of azopolymer thin films
186. KOMISSAR D.A.[1], SELYUKOV A.S.[1,2], VITUKHNOVSKY A.G.[1,2], VASILIEV R.B.[3], KUROCHKIN N.S.[1,2], SOLOVEY V.R.[1]
[1]*Moscow Institute of Physics and Technology (State University), Dolgoprudny*
[2]*Lebedev Physical Institute of the RAS, Moscow*
[3]*Lomonosov Moscow State University*
Förster energy transfer in organic light-emitting diode based on CdSe planar nanocrystals
187. KISLOV D.A.
Orenburg State University
Modeling of Graetzel solar cells with plasmonic silver nanoparticles
188. ONISCHUK S.A., MURADOVA A.S.
Kuban State University, Krasnodar
Study of degradation of silicon solar cells at irradiation by protons

189. IVANOV V.I., IVANOVA G.D.
Far Eastern State Transport University, Khabarovsk
Concentration switching wave in nanofluids, located in a light field

190. KOLCHIN A.V., PUGACHEV D.Yu., TKACHENKO N.B., EFIMOVA A.I., ZABOTNOV S.V., GOLOVAN L.A.
Lomonosov Moscow State University
Effective diffuse light scattering by silicon nanowire massives

191. KUCHERENKO M.G., KISLOV D.A.
Orenburg State University
Plasmon-activated intermolecular radiationlees energy transfer in spherical nanoreactors

192. KONSTANTINOVA E.I.[1,2], MATVEEVA K.I.[1], BRYUKHANOV V.V.[1]
[1]*Immanuel Kant Baltic Federal University, Kaliningrad*
[2]*Kaliningrad State Technical University*
Exciton-plasmon interaction CdZnSZnS and CdZnSeS quantum dots with silver nanopaticles in polymethylmethacrylate film

193. IVANOVA G.D., KIRJUSHINA S.I., MJAGOTIN A.V.
Far Eastern State Transport University, Khabarovsk
Dynamic holograms efficiency in a nanosuspension

194. KUCHERENKO M.G., NALBANDYAN V.M.
Orenburg State University
The structure of the near-field layered nanocylinder with a magnetized metal cord and excitonogeneous shell

195. EGORYSHEVA A.V.[1], DUDKINA T.D., GAITKO O.M.[1], RUDNEV P.O.[1,2]
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]*Kurnakov Institute of General and Inorganic Chemistry of the RAS, Moscow*
[2]*Lomonosov Moscow State University*
Vibrational spectra of $Bi_{1.8}Fe_{1.2(1-x)}Ga_{1.2x}SbO_7$ solid solutions with pyrochlore structure

196. RUSINOV A.P., KUCHERENKO M.G., GORSHKOV A.V.
Orenburg State University
Incoherent absorption saturation solutions of photoactive molecules in the presence of metallic nanoparticles

197. VOLKOVA O.I., BARANOV A.N.
Lomonosov Moscow State University
Changes in the degree of dissociation dyes in AOT reverse micelles in heptane

198. OVECHENKO D.S., BOYCHENKO A.P.
Kuban State University, Krasnodar
Localization electrochemiluminescence on an aluminum anode with dielectric coatings

199. DMITRIEVA M.D.[1], KHARINCEV S.S.[1,2], ALEKSEEV A.M.[3], FISHMAN A.I.[1], SALAKHOV M.Kh.[1,2]
[1]*Kazan Federal University*
[2]*Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan*
[3]*Nazarbaev University, Astana, Kazakhstan*
Visualization of optical near fields with photosensitive azo-polymers

200. CHERNYKH E.A.[1], KHARINCEV S.S.[1,2], ALEKSEEV A.M.[3], FISHMAN A.I.[1], SALAKHOV M.Kh.[1,2]
[1]*Kazan Federal University*
[2]*Intitute of Perspective Researches of Tatarstan Academy of Sciences, Kazan*
[3]*Nazarbaev University, Astana, Kazakhstan*
A study of glass transition temperature of free-standing and supported azo-polymer films with atomic force microscopy

201. KOTLIKOV E.N., NOVIKOVA Ju.A., IURKOVETS E.V.
State University of Aerospace Instrumentation, Saint Petersburg
Measurement optic constants of CaY_2F_8 film

202. TIKHOMIROVA N.S.[1,2], SLEZHKIN V.A.[1,2], ZYUBIN A.Yu.[1], BRYUKHANOV V.V.[1]
[1]*Immanuel Kant Baltic Federal University, Kaliningrad*
[2]*Kaliningrad State Technical University*
Plasmonic enhancement of fluorescence and Raman scattering the eosin molecules on anodized aluminum doped with silver nanoparticles

203. ISMAGILOV A.O., ANDREEVA N.V., ANDREEVA O.V.
ITMO University, Saint Petersburg
Research of optical heterogeneity of nanoporous silicate matrices

204. CHERNOV A.I.[1,2], FEDOTOV P.V.[2], OBRAZTSOVA E.D.[1,2]
[1]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
[2]*Prokhorov General Physics Institute of the RAS, Moscow*
Adjustment of single-walled carbon nanotubes optical properties via graphene nanoribbons encapsulation

205. MOLCHANOVA A.D., MOSHKINA E.M.[1], BOLDYREV K.N.
Institute for Spectroscopy of the RAS, Troitsk
[1]*Kirensky Institute of Physics of SB RAS, Krasnoyarsk*
Investigation of magnetic phase transitions in multi-sublattice magnet $Cu_xMn_{1-x}B_2O_4$ by optical polarization spectroscopy

206. KOZLOVA D.A., IVANOV S.A., PICHUGIN I.S.
ITMO University, Saint Petersburg
Influence of rare earth activator concentration on the dynamics of the plasmon resonance band in photo-termo-refractive glass

207. CHERNAKOV D.I.[1], SIDOROV A.I.[1,2], STOLYARCHUK M.V.[1]
[1]*ITMO University, Saint Petersburg*
[2]*Saint-Petersburg State Electrotechnical University "LETI"*
Creating a luminescent waveguide in photo-thermo-refractive glass by UV radiation

208. KRYKOVA V.A., IVANOV S.A., DUBROVIN V.D.
ITMO University, Saint Petersburg
Holographic properties on chloride photo-thermo-refractive glass

209. BABKINA A.N., TROTS K.I., NIKONOROV N.V.
ITMO University, Saint Petersburg
Color centers formation in borate glasses with CuCl nanocrystals under UV irradiation

210. STOLYARCHUK M.V.[1], KOCHETKOV P.V.[1], SIDOROV A.I.[1,2]
[1]*ITMO University, Saint Petersburg*
[2]*Saint-Petersburg State Electrotechnical University "LETI"*
AB INITIO calculations of optical properties of Ag-Cu molecular clusters in phosphate glasses

211. GORBYAK V.V.[1], SIDOROV A.I.[1,2]
[1]ITMO University, Saint Petersburg
[2]Saint-Petersburg State Electrotechnical University "LETI"
Multilevel optical information recording in silver-containing glasses

212. KOBRANOVA A.A.[1], SIDOROV A.I.[1,2]
[1]ITMO University, Saint Petersburg
[2]Saint-Petersburg State Electrotechnical University "LETI"
Sensitive element temperature sensing based on glass with Eu and molecular clusters Ag

213. TCIBULNIKOVA A.V.[1,2], MYSLITSKAYA N.A.[1,2], SLEZHKIN V.A.[1,2], BRYUKHANOV V.V.[1], ZEMLYAKOVA E.S.[1]
[1]Immanuel Kant Baltic Federal University, Kaliningrad
[2]Kaliningrad State Technical University
Interaction between plasmon of silver nanoparticles of different origin and bovine serum albumin molecules

214. FATKHUTDINOVA L.I., NEPOMNYASCHAYA E.K., VELICHKO E.N., AKSENOV E.T.
Peter the Great Saint-Petersburg Polytechnic University
Study of magnetic fluids by the method of polarimetry

215. SAVCHENKO E.A., NEPOMNYASCHAYA E.K., DUBO D.B., VELICHKO E.N., TSYBIN O.Yu.
Peter the Great Saint-Petersburg Polytechnic University
New method of registration of fluorescence in biomolecular liquids

216. KUZMINA T.B., ANDREEVA N.V., ANDREEVA O.V.
ITMO University, Saint Petersburg
Analysis of the parameters of biological fluids by dynamic light scattering method

217. KIRJUSHINA S.I., MJAGOTIN A.V.
Far Eastern State Transport University, Khabarovsk
Nonlinear optical diagnostics of nanoliquides

218. LIVASHVILI A.I., KRISHTOP V.V., KOSTINA G.V., LIKHOVODOVA T.B.
Far Eastern State Transport University, Khabarovsk
The dynamics of the thermal conductivity of nanoliquid in a light field

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219. AVERBUKH B.B., AVERBUKH I.B.
Pacific State University, Khabarovsk
Propagation of plane S- polarized electromagnetic waves in a cylindrical nanorod and nanotube

220. KARTSEV P.F., KUZNETSOV I.O.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Taking into account the polariton-phonon interaction for the simulation of the Bose gas thermalization process

221. BICHKOV A.B., KOZHINA A.S., MITYUREVA A.A., SMIRNOV V.V.
Saint Petersburg State University
Modification of the trajectory method for evaluation the probability of multiphoton ionization

222. KHALYAPIN V.A., BUGAY A.N.[1]
Kaliningrad state technical university
[1]Joint institute of nuclear researches, Dubna
Photoionization and suppression of intrapulse Raman scattering

223. HOPERSKY A.N., NADOLINSKY A.M., KONEEV R.V.
Rostov State Transport University, Rostov-on-Don
Merging of X-ray photons in an atomic ion field

224. ASTASHKEVICH S.A.
Saint Petersburg State University
Information entropy for high excited vibrational states of lithium dimer isotopologues

225. MAKIN V.S., MAKIN R.S.[1]
Scientific Research Institute for Optoelectronic Instrument Engineering, Sosnovy Bor, Leningrad region
[1]Dimitrovgrad Engineering and Technological Institute of the NRNU MEPHI, Ulyanovsk region
About quartz glass damage model by ultrafast radiation

226. DOBRINA D.A., VEIKO V.P., LEBEDEVA E.V., SINEV D.A.
ITMO University, Saint Petersburg
Alumosilicate thin-walled laser-induced sphere: experimental study of process formation's kinetics

227. OREKHOV I.O., DVORETSKIY D.A. SAZONKIN S.G., KUDELIN I.S., PNEV A.B., KARASSIK V.E., DENISOV L.K.
Bauman Moscow State Technical University
Generation and propagation peculiarities of femtosecond pulses in an all-fiber erbium-doped ring laser with a highly nonlinear resonator

228. KROLEVETS O.S., LEVITSKIY M.E.[1]
National Research Tomsk Polytechnic University
[1]TOPAZ Ltd, Tomsk
The experimental installation for forming the intensity distribution using the phase control in a multichannel system of fiber lasers

229. RYABCHUK S.V.[1], GONCHAROV S.A.[1], MOKROUSOVA D.V.[2], SELEZNEV L.V.[2], SUNCHUGASHEVA E.S.[2], USTINOVSKII N.N.[2], SHUTOV A.V.[2], ZVORYKIN V.D.[1,2]
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]Lebedev Physical Institute of the RAS, Moscow
Suppression of multiple filamentation of the sub-TW peak power UV laser beam in xenon

230. GONCHAROV S.A.[1], RYABCHUK S.V.[1], SHUTOV A.V.[2], ZVORYKIN V.D.[1,2], SUNCHUGASHEVA E.S.[2], MOKROUSOVA D.V.[2]
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]Lebedev Physical Institute of the RAS, Moscow
Regularization of UV multiple filamentation in air by method of amplitude masks

231. MAKIN V.S., MAKIN R.S.[1]
Scientific Research Institute for Optoelectronic Instrument Engineering, Sosnovy Bor, Leningrad region
[1]Dimitrovgrad Engineering and Technological Institute of the NRNU MEPHI, Ulyanovsk region
Laser radiation filamentation in transparent condensed media and volume gratings formation

232. NIKOLAEV D.A.[2], TSVETKOV V.B.[1,2], SHAMATOVA A.I.[1,2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Prokhorov General Physics Institute of the RAS, Moscow
ND:GGG disk laser with three-beam diode pumping

233. IONIN A.A.[1], KINYAEVSKIY I.O.[1], KLIMACHYOV Yu.M.[1], KOZLOV A.Yu.[1], KOTKOV A.A.[1], STEPANISHCHEV V.V.[2], KHAFIZOV I.Zh.[2]
Lebedev Physical Institute of the RAS, Moscow
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Spectral structure of sum frequency generation of multiline carbon monoxyde laser in $ZnGeP_2$ crystal

234. GALUSHKIN M.G., YAKUNIN V.P., DYACHKOV R.G.[1]
Institute on Laser and Information Technologies – branch of FSRC "Crystallography and Photonics" of the RAS, Shatura
[1]Bauman Moscow State Technical University
Influence of saturation of diode pump radiation absorption in YAG:Yb^{+3} crystal on parameters of planar waveguide lasers

235. KOZLOVSKII K.I., KOTKOVSKII G.E., MITYAGIN Yu.A.[1], PIRYAZEV I.N., PLEKHANOV A.A., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]Lebedev Physical Institute of the RAS, Moscow
Stand on the basis of femtosecond laser and a Michelson interferometer for the study of THz radiation of photoconductive antennas

236. AKMALOV A.E., KOZLOVSKII K.I., KOTKOVSKII G.E., PIRYAZEV I.N., PLEKHANOV A.A., CHISTYAKOV A.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
THz spectrum based on photoconductive antennas and band resonant THz filters

237. GANIN D.V.[1,2], LAPSHIN K.E.[2], OBIDIN A.Z.[2], VARTAPETOV S.K.[2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Prokhorov General Physics Institute of the RAS, Moscow
Single pulse perforating of thin transparent dielectrics by femtosecond lasers

238. AKOVANTSEVA A.A., YUSUPOV V.I., RYBALTOIVSKII A.O.[1]
Institute of Photonic Technologies – branch of FSRC "Crystallography and Photonics" of the RAS, Troitsk
[1]Lomonosov Moscow State University
Features of formation of structures under the influence of continuous and pulsed laser radiation in the films of thermostable polymers

239. SMIRNOV V.V., ALYKOVA O.M., BEZNISKO E.I., KURAMSHIN K.V.
Astrakhan State University
Optimization of the structure and parameters of monocrystal films of ferrite-garnets under the challenges of applied optoelectronics

240. POLTAEV Yu.A., SERGEEV M.M., ZAKOLDAEV R.A., KOVAL V.V.
ITMO University, Saint Petersburg
Densification inside of porous glass by ultra-short laser pulses

241. KOVAL V.V., SERGEEV M.M., ZAKOLDAEV R.A., RYMKEVICH V.S., POLTAEV Yu.A.
ITMO University, Saint Petersburg
Fabrication of phase gratings by laser microplasma for interference schemes of micromachining

242. BAZZAL Kh., FADAIJAN A.P., VOROPAY E.S., ZAJOGIN A.P.
Belarusian State University, Minsk
Investigation into the formation processes of aluminum nitride in the plasma depending on the incidence angle of double laser pulses onto the target of D16T aluminum alloy in the air

243. KOZLOVSKII K.I., MELEKHOV A.P.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Generation of terahertz radiation by plasma of laser triggered vacuum spark

244. KUSHVARA D.A., PLIVAK S.A., SHUMILIN A.S.
Southern Federal University, Taganrog
Cooling system the metal-vapor lasers

245. ROGOZHNIKOV G.S., ROMANOV V.V., MISHINA I.V.
All-Russian Research Institute of Experimental Physics, Sarov, Nizhny Novgorod region
Application of picosecond streak-camera for ultra-short laser pulse diagnostics in multichannel laser facilities

246. SMIRNOV A.A., GAZIZOV I.M., OLNEV A.A., FEDORKOV V.G., KAPLUNOV I.A.[1]
National Center of Laser Systems and Complexes Astrophysika, Moscow
[1]Tver State University
Measuring performance CZT detectors in optical excitation of charge carriers with the ability to scan a light beam

247. SCHELEV M.Ya., MESHKOV O.I.[1], VERESCHAGIN A.K.
Prokhorov General Physics Institute of the RAS, Moscow
[1]Budker Institute of Nuclear Physics of SB RAS, Novosibirsk
Development, calibration and application of new-generation picosecond dissector

248. BELUKHINA Yu.Yu., LYUBIMOV. A.I.[1], ROGOZHNIKOV G.S.[2], ROMANOV V.V.[2]
Sarov State Physics and Technical Institute NRNU MEPHI, Nizhny Novgorod region
[1]State Institute of Applied Optics, Kazan
[2]All-Russian Research Institute of Experimental Physics, Sarov, Nizhny Novgorod region
Optimization of stretcher and compressor parameters for multichannel petawatt laser facility

249. ROGOZHIN M.V.[1], ROGALIN V.E.[2,3], KRIMSKY M.I.[1,2]
[1]Moscow Institute of Physics and Technology (State University), Dolgoprudny
[2]National Center of Laser Systems and Complexes Astrophysika, Moscow
[3]Tver State University
Two-component output windows in high-power laser systems

250. DUDOVA D.S.[1,2], BARDAKOVA K.N.[1], HOLHOEV B.Ch.[3], FARION I.A.[4], OCHIROV B.D.[4], BURDUKOVSKIJ V.F.[4], TIMASHEV P.S.[1], MINAEV N.V.[1]
[1]Institute of Photonic Technologies, – branch of FSRC "Crystallography and Photonics" of the RAS, Troitsk
[2]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[3]Buryat State University, Ulan-Ude
[4]Baikal Institute of Nature Management SB of RAS, Ulan-Ude
Fabrication of three-dimensional structures based on termostable heterochain polymer compositions by laser stereolithografy

251. LYUBIMOV. A.I.[1], ROMANOV V.V.
All-Russian Research Institute of Experimental Physics, Sarov, Nizhny Novgorod region
[1]State Institute of Applied Optics, Kazan
Optimization of energy characteristics of dielectric diffraction gratings for laser pulse compression

252. GALUSHKIN M.G.
Institute on Laser and Information Technologies – branch of FSRC "Crystallography and Photonics" of the RAS, Shatura
Efficiency of laser beam utilization in gas laser cutting of materials

253. YAKUNIN V.P., GRIGORIANTZ A.G.[1], FUNTIKOV V.A.[1]
Institute on Laser and Information Technologies – branch of FSRC "Crystallography and Photonics" of the RAS, Shatura
[1]Bauman Moscow State Technical University
Generation characteristics of single-mode laser diodes virtual and real bars at beams spectral incoherent combining in stable resonators with diffraction grating

254. ROGOV P.Yu., PUTILIN S.E., NALEGAEV S.S., CHANG C.-J.[1], BESPALOV V.G.
ITMO University, Saint Petersburg
[1]National Taiwan Normal University, Taipei, Taiwan
Interaction of femtosecond laser radiation with human skin: experimental confirmation of the mathematical model

255. FARRAKHOVA D.S.[1], MAKAROV V.I.[2], LOSCHENOV V.B.[1,2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Prokhorov General Physics Institute of the RAS, Moscow
Evaluation of healing skin grafts with using aluminum phthalocyanine nanoparticles and indocyanine green by laser spectroscopic methods

256. MALOV A.N., NOVIKOVA E.A.[1], VAYCHAS A.A.[2]
Air Force Academy named after prof. N.E. Zhukovsky and Yu.A Gagarin, Voronezh
[1]Scientific Centre for Family Health and Human Reproduction Problems, Irkutsk
[2]Irkutsk branch of Moscow state technical university of civil aviation
The mechanism of laser radiation action on a mineralization of the human bile preparations

257. SHAROVA A.S.[1], MACLYGINA Ju.S.[2], ROMANISHKIN I.D.[2], LOSCHENOV V.B.[1,2]
[1]National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[2]Prokhorov General Physics Institute of the RAS, Moscow
The study of molecular bacteriochlorin nanocrystals as agents for hyperthermia therapy of malignant neoplasms

258. TIMCHENKO E.V., TIMCHENKO P.E., ZARUBINA E.G., BURENKOV E.S., ASADOVA A.A., ITYAKSOV Yu.D.
Samara National Research University
Research of effectiveness of the staphylococcal infections treatment in the tonsils using Raman spectroscopy

259. LYKINA A.A., ARTEMYEV D.N., BRATCHENKO I.A., KHRISTOFOROVA Ju.A., MYAKININ O.O., KUZMINA T.P.[1], DAVYDKIN I.L.[1], ZAKHAROV V.P.
Samara National Research University
[1]Samara State Medical University
Analysis of human biofluids with different concentrations by Raman spectroscopy method

260. TIMCHENKO P.E., TIMCHENKO E.V., DOLGYSHKIN D.A.[1]., VOLOVA L.T.[1], ASADOVA A.A., FEDOROVA Ya.V., PRAVEDNIKOV S.I.
Samara National Research University
[1]Samara State Medical University
Study of structural features of the rat bone tissue using Raman spectroscopy

261. TIMCHENKO E.V., TIMCHENKO P.E., VOLOVA L.T.[1], DOLGYSHKIN D.A.[1]., MARKOVA M.D., YAGOFAROVA E.F.
Samara National Research University
[1]Samara State Medical University
Analysis of joint fluid using Raman spectroscopy

262. SHAMINA L.A., BRATCHENKO I.A., ARTEMYEV D.N., MYAKININ O.O., MORYATOV A.A.[1], KOZLOV S.V.[1], ZAKHAROV V.P.
Samara National Research University
[1]Samara State Medical University
Raman and fluorescence spectroscopy of human body fluids for cancers detection

263. TIMCHENKO P.E., TIMCHENKO E.V., VOLOVA L.T.[1], DOLGYSHKIN D.A.[1]., FROLOV O.O., MESHCHERYAKOV V.D., BALMASOV A.V.
Samara National Research University
[1]Samara State Medical University
Optical evaluation of changes in the composition of bone implants during processing

264. TIMCHENKO E.V., TIMCHENKO P.E., VOLOVA L.T.[1], SHALKOVSKAYA P.Yu., TRAPEZNIKOV D.S.
Samara National Research University
[1]Samara State Medical University
Spectrum analysis of structural change of heart valves for various stages of their decellularization

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265. PERESKOKOV V.S., GORISHNIY V.A., DZEDOLIK I.V.
V.I. Vernadsky Crimean Federal University, Simferopol
Control of plasmon-polariton vortices

266. MAKAROV V.A., PETNIKOVA V.M., RYZHIKOV P.S., SHUVALOV V.V., YADVICHUK A.V.
Lomonosov Moscow State University
Elliptically polarized breather in nonlinear isotropic gyrotropic medium

267. SKOBNIKOV V.A., GORODETSKY A.A.[1,2], KULYA M.S.
ITMO University, Saint Petersburg
[1]Lancaster University, Birmingham, United Kingdom
[2]Cockcroft Institute, Cheshire, United Kingdom
Numerical simulation of the spatial coherence of optical rectification based pulsed terahertz emitter

268. ALEXEYEV C.N., BARSHAK E.V., YAVORSKY M.A.
V.I. Vernadsky Crimean Federal University, Simferopol
Higher-order resonance modes of twisted anisotropic fibers

269. ZOLOTOVSKII I.O., LAPIN V.A., SEMENTSOV D.I.
Ulyanovsk State University
Modulation instability of wave packets through an inhomogeneous fiber

270. KOVALYOVA A.O., ALEXEYEV C.N., RUBASS A.F., PETROV N.V.[1], SHEVKUNOV I.A.[1]
V.I. Vernadsky Crimean Federal University, Simferopol
[1]ITMO University, Saint Petersburg
Evolution of light in a circular array of optical fibers

271. HALILOV S.I., IBRAGIMOV A.E., RUBASS A.F., AKIMOVA Ya.E.
V.I. Vernadsky Crimean Federal University, Simferopol
Modeling your own mode composition of the radiation of the fibers at V=3.8

272. VEKSHIN M.M., NIKITIN V.A., YAKOVENKO N.A.
Kuban State University, Krasnodar
Physical-mathematical modeling of fabrication technology of two-layer waveguides structures in glass

273. BEZPALY A.D., SHANDAROV V.M.
Tomsk State University of Control Systems and Radioelectronics
Optical formation of waveguide elements in lithium niobate with photorefractive surface layer

274. VEKSHIN M.M., YAKOVENKO N.A.
Kuban State University, Krasnodar
Integrated-optic polarization converter based on glass waveguide mode evolution

275. VORZOBOVA N.D., SOKOLOV P.P., VESELOV V.O.
ITMO University, Saint Petersburg
Formation and properties of hybrid periodic structures

276. ANOKHINA M.A.[1,2], MENSOV S.N.[1,2], POLUSHTAYTSEV Yu.V.[2]
[1]*Lobachevsky State University of Nizhny Novgorod*
[2]*Razuvaev Institute of Organometallic Chemistry of RAS, Nizhny Novgorod*
Use of non-stationary light to create 2D structures in the photopolymerizable layer

277. GADOMSKY O.N., SHCHUKAREV I.A.
Ulyanovsk State University
Increase in efficiency of colored light-emitting diodes by a nanostructural composite layer PMMA+Ag

278. CHERNIAK M.E.[1,2], MOZHAEV R.K.[1], STAKHARNIY S.A.[3], MERKULOV A.V.[3]
[1]*National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)*
[2]*Specialized Electronic Systems, Moscow*
[3]*JSC "CRI "Cyclone", Moscow*
Research of radiation tolerance of OLED-diodes to gamma-ray and neutron impact

279. SAKHAROV V.K.
"VOSPI Centre" Ltd, Moscow
Multimode semiconductor laser gyro – principle of operation

280. KOMOTSKII V.A., SOKOLOV Yu.M., SUETIN N.V.
Peoples' Friendship University of Russia, Moscow
Modulator of laser radiation based on corner reflector and deep diffraction grating

281. SHAULSKY D.V.
All-Russian Research Institute of Automatics, Moscow
Node fiber-optic wiring multichannel laser generator

282. KAMENEV O.T., PETROV Yu.S., KHIZNYAK R.V., KOLCHINSKIY V.A.
Institute of Automation and Control Processes of FEB RAS, Vladivostok
Detection of weak seismic waves by fiber-optic interferometric seismometers

283. GORYACHEV L.V., MARININ A.A.
Sarov State Physics and Technical Institute NRNU MEPHI, Nizhny Novgorod region
Diffraction of light and the problem of laser beams apodization

284. VORONTSOV E.N.[1], EFIMOVA K.V.[1,2], KOTOVA S.P.[1,2], LOSEVSKY N.N. A.A.[1], PROKOPOVA D.V.[1,2]
[1]*Samara Branch of the Lebedev Physical Institute*
[2]*Samara National Research University*
Compact unit for demonstration of spiral light beams

285. VOLCOV V.G.
Bauman Moscow State Technical University
Pseudonocardia night vision goggles for operation in the spectral range of 0.9 to 1.7 mkm

286. KAVALENKA S.A.
Belarusian State University, Minsk
Visible range spectroscopy for IN SITU research area

287. RAZUVAEV A.E., SHVEDOVA O.V., TUGAENKO V.Yu.
S.P. Korolev Rocket and Space Corporation Energia, Korolev
High-performance photovoltaic receiver of laser radiation for wireless power transfer

288. VOLCOV V.G.
Bauman Moscow State Technical University
Underwater television monocular with remote transmission image

289. EMELIANOV V.M., LENTOVSKII V.V., FEDOROV D.L.
Baltic State Technical University «VOENMEH» named after D.F. Ustinov, Saint-Petersburg
Passive method of measurement range

290. VOLOSTNIKOV V.G.[1], KISHKIN S.A.[2], KOTOVA S.P.[1,3]
[1]*Samara Branch of the Lebedev Physical Institute*
[2]*Krasnodar Higher Military School*
[3]*Samara National Research University*
Coherent optics for recognition of contour images

291. BYSHEVSKI-KONOPKO O.A., PROKLOV V.V., LUGOVSKOI A.V., KORABLEV E.M.
Fryazino Branch of Kotel'nikov Institute of Radioengineering and Electronics of RAS
The software algorithm of linear spectral unmixing in hyperspectral imaging using multiband acousto-optic filters

292. GULIS I.M., KUPREYEU A.G.
Belarusian State University, Minsk
Image monochromators based on dispersive spectral filtering

293. MAKSIMOVA L.A.[1], RYABUKHO P.V.[1,2], MYSINA N.Yu.[1], RYABUKHO V.P.[1,2]
[1]*Institute of Precision Mechanics and Control of the RAS, Saratov*
[2]*Saratov National Research State University*
Determination of sub-pixel microdisplacements of speckle-structures based on phase analysis of their spatial spectrum

294. POLETAEV D.A., SOKOLENKO B.V, KOVALYOVA A.O., PETROV N.V.[1], SHEVKUNOV I.A.[1]
V.I. Vernadsky Crimean Federal University, Simferopol
[1]ITMO University, Saint Petersburg
Application of speckle interferometry in archaeological research

295. DYOMIN V.V., POLOVCEV I.G., KAMENEV D.V., KOZLOVA A.S., OLENIN A.L.[1]
National Research Tomsk State University
[1]P.P. Shirshov Institute of Oceanology, Moscow
Approbation of hardware and software complex for plankton investigation in natural water reservoir

296. GONCHAROV D.S., PETROVA E.K., PONOMAREV N.M., STARIKOV R.S., SHAULSKY D.V.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Synthesis and investigation of invariant maximum average height correlation filter

297. DENISOV D.G., NAGOVITSYN V.V., MENDELEEV V.Ya.[1]
Bauman Moscow State Technical University
[1]Prokhorov General Physics Institute of the RAS, Moscow
A comparative analysis of optoelectronic systems for remote control of parameters of complex-forms technological products

298. AVLASEVICH N.T., BUTS A.I., LYALIKOV A.M.
Janka Kupala State University, Grodno, Belarus
Interferometer for measuring control of periodic microstructures

299. DENISOV D.G., DGUMAMURATOVA A.A., LARICHEV A.V.[1], MARTYNOVA D.A.
Bauman Moscow State Technical University
[1]Lomonosov Moscow State University
Method and optoelectronic device controlling intraocular lens options

300. RYABOV K.D., MYAKININ O.O., GUSEINOV A.Yu.[1], ZAKHAROV V.P., KHRAMOV A.G.
Samara National Research University
[1]Branchevsky Eye Clinic, Samara
An active sphere method for 3D OCT images segmentation

301. MENSOV S.N.[1,2], POLUSHTAYTSEV Yu.V.[2]
[1]Lobachevsky State University of Nizhny Novgorod
[2]Razuvaev Institute of Organometallic Chemistry of RAS, Nizhny Novgorod
Using space-frequency filtering to increase the depth of field of the projection system

302. BUTS A.I., LYALIKOV A.M.
Janka Kupala State University, Grodno, Belarus
Increase of sensitivity measurements of residual wedging transparent substrates of diffractive optical elements

303. KOLYUCHKIN V.V., ODINOKOV S.B.
Bauman Moscow State Technical University
The method of indirect measurements of security hologram parameters considering the influence of diffraction gratings relief distortion

304. AUNG M.W., RINKEVICHYUS B.S., PAVLOV I.N.
National Research University "Moscow Power Engineering Institute"
Visualization of shape and deformation of rough surface by structured optical radiation

305. GONCHAROV D.S., KRASNOV V.V., PONOMAREV N.M., STARIKOV R.S.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
[1]ITMO University, Saint Petersburg
Measurement of phase modulation of amplitude LC SLM by dual-beam interferometric method

306. BARYSHNIKOV N.V., DENISOV D.G., KARASSIK V.E., MOROZOV A.B.[1], PATRIKEEV V.E.[1], SULEYMANOV G.M.[1]
Bauman Moscow State Technical University
[1]Lytkarino Optical Glass Factory, Moscow region
The precise method for measuring the RMS of the wavefront of laser radiation at the control surface inhomogeneties of nanometer-level profiles of optical details

307. EVTIKHIEV N.N., KRASNOV V.V., SHIFRINA A.V.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Methods of evaluation of visual concealment of encoded images in schemas of optical image encryption

308. BALBEKIN N.S., KULYA M.S., TUROV A.T., PETROV N.V.
ITMO University, Saint Petersburg
Wavefront transfer function modification for dispersion accounting in the digital terahertz pulsed time domain holography

309. KULAKOV M.N., STARIKOV R.S., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Compressed sensing for digital holography

310. ISMANOV Yu.H., ISMAILOV D.A., ZHUMALIEV K.M., ALYMKULOV S.A.
Institute of Physical-Technical Problems and Material Science of NAS KR, Bishkek, Kyrgyz republic
Self-reproduction effect in holography

311. KURBATOVA E.A., CHERYOMKHIN P.A.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Methods of compression of digital holograms by wavelet transforms

312. KATEROVA S.S., KRASNOV V.V., KURBATOVA E.A., MOLODTSOV D.Yu., CHERYOMKHIN P.A., RODIN V.G.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Development of digital holograms compression methods using error diffusion

313. VOVK T.A., PETROV N.V.
ITMO University, Saint Petersburg
Application of digital phase conjugation in the problem of optical wave field formation

314. MINAEVA E.D., KRASNOV V.V., CHERYOMKHIN P.A., RODIN V.G.
National Research Nuclear University MEPhI (Moscow Engineering Physics Institute)
Analysis of efficiency of direct search with random trajectory method applied to the task of kinoform synthesis error minimization