

**Список научных трудов, индексируемых в WoS за 2012-2017 гг.**  
**кандидата на должность директора**  
**ФНИЦ «Кристаллография и фотоника»**  
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**Статьи в журналах**

1. Kazanskiy, Nikolay; Skidanov, Roman, Binary beam splitter//APPLIED OPTICS,2012, V.51, №14
2. Khonina, Svetlana N.; Volotovskiy, Sergey G.; Kharitonov, Sergey I.; Kazanskiy, Nikolay L., Calculating the Energy Spectrum of Complex Low-Dimensional Heterostructures in the Electric Field//SCIENTIFIC WORLD JOURNAL,2013, V., №
3. Kazanskiy, Nikolay L.; Serafimovich, Pavel G.; Khonina, Svetlana N.,Use of photonic crystal cavities for temporal differentiation of optical signals//OPTICS LETTERS,2013, V.38, №7
4. Serafimovich, Pavel G.; Kazanskiy, Nikolay L.; Khonina, Svetlana N.,Two-component cavity based on a regular photonic crystal nanobeam//APPLIED OPTICS,2013, V.52, №23
5. Aslanov, Emil R.; Doskolovich, Leonid L.; Moiseev, Mikhail A.; Bezus, Evgeni A.; Kazanskiy, Nikolay L.,Design of an optical element forming an axial line segment for efficient LED lighting systems//OPTICS EXPRESS,2013, V.21, №23
6. Kazanskiy, N. L.; Kolpakov, V. A.; Podlipnov, V. V.,Gas discharge devices generating the directed fluxes of off-electrode plasma//VACUUM,2014, V.101
7. Bezus, Evgeni A.; Doskolovich, Leonid L.; Kazanskiy, Nikolay L., Low-scattering surface plasmon refraction with isotropic materials//OPTICS EXPRESS,2014, V.22, №11
8. Kazanskiy, Nikolay L.; Serafimovich, Pavel G.,Coupled-resonator optical waveguides for temporal integration of optical signals//OPTICS EXPRESS,2014, V.22, №11
9. Doskolovich, Leonid L.; Dmitriev, Anton Yu.; Moiseev, Mikhail A.; Kazanskiy, Nikolay L., Analytical design of refractive optical elements generating one-parameter intensity distributions//JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION,2014, V.31, №11

10. Volkov, A. V.; Kazanskiy, N. L.; Moiseev, O. Yu.; Poletayev, S. D., Thermal oxidative degradation of molybdenum films under laser ablation//TECHNICAL PHYSICS,2015, V.60, №2
11. Khonina, Svetlana N.; Savelyev, Dmitry A.; Kazanskiy, Nikolay L., Vortex phase elements as detectors of polarization state//OPTICS EXPRESS,2015, V.23, №14
12. Khonina, Svetlana Nikolaevna; Savelyev, Dmitry Andreevich; Kazanskiy, Nikolay Lvovitch, Analysis of polarisation states at sharp focusing//OPTIK,2016, V.127, №6
13. Serafimovich, Pavel G.; Kazanskiy, Nikolay L., Optical modulator based on coupled photonic crystal cavities//JOURNAL OF MODERN OPTICS,2016, V.63, №13
14. Doskolovich, L. L.; Borisova, K. V.; Moiseev, M. A.; Kazanskiy, N. L., Design of mirrors for generating prescribed continuous illuminance distributions on the basis of the supporting quadric method//APPLIED OPTICS,2016, V.55, №4
15. Kazanskiy, N. L.; Moiseev, O. Yu.; Poletayev, S. D., Microprofile formation by thermal oxidation of molybdenum films//TECHNICAL PHYSICS LETTERS,2016, V.42, №2
16. Volkov, A. V.; Kazanskiy, N. L.; Moiseev, O. Yu.; Paranin, V. D.; Poletayev, S. D.; Chistyakov, I. V., Specific features of the laser irradiation of thin molybdenum films//TECHNICAL PHYSICS,2016, V.61, №4
17. Doskolovich, Leonid L.; Bezus, Evgeni A.; Moiseev, Mikhail A.; Bykov, Dmitry A.; Kazanskiy, Nikolay L., Analytical source-target mapping method for the design of freeform mirrors generating prescribed 2D intensity distributions//OPTICS EXPRESS,2016, V.24, №10
18. Verma, Payal; Khan, Khamar Zaman; Khonina, Svetlana Nikolaevna; Kazanskiy, Nikolay Lvovich; Gopal, Ram, Ultraviolet-LIGA-based fabrication and characterization of a nonresonant drive-mode vibratory gyro/accelerometer//JOURNAL OF MICRO-NANOLITHOGRAPHY MEMS AND MOEMS,2016, V.15, №3
19. Fursov, Vladimir; Zherdev, Denis; Kazanskiy, Nikolay ,Support subspaces method for synthetic aperture radar automatic target recognition//INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS,2016, V.13
20. Serafimovich, P. G.; Stepikhova, M. V.; Kazanskiy, N. L.; Gusev, S. A.; Egorov, A. V.; Skorokhodov, E. V.; Krasilnik, Z. F., On a silicon-based photonic-crystal cavity for the near-IR region: Numerical simulation and formation technology//SEMICONDUCTORS,2016, V.50, №8

21. Kazanskiy, N. L.; Poletayev, S. D. Numerical simulation of the ablation of thin molybdenum films under laser irradiation // TECHNICAL PHYSICS V/61, №9, 2016
22. Doskolovich, Leonid L.; Andreev, Evgeniy S.; Kharitonov, Sergey I.; и др, Reconstruction of an optical surface from a given source-target map // JOURNAL OF THE OPTICAL SOCIETY OF AMERICA A-OPTICS IMAGE SCIENCE AND VISION V 33, N8, 2016

### **Труды конференций**

1. Kazanskiy, Nikolay L., Research & Education Center Of Diffractive Optics//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2011,2012, V.8410
2. Moiseev, Mikhail A.; Kravchenko, Sergey V.; Doskolovich, Leonid L.; Kazanskiy, Nikolay L., Design of LED optics with two aspherical surfaces and the highest efficiency//OPTICAL SYSTEMS DESIGN 2012,2012, V.8550
3. Kazanskiy, Nikolay L.; Popov, Sergey B., Distributed Storage and Parallel Processing for Large-Size Optical Images//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2011,2012, V.8410
4. Khonina, S. N.; Savelyev, D. A.; Kazanskiy, N. L.; Soifer, V. A., Singular Phase Elements as Detectors for Different Polarizations//ELEVENTH INTERNATIONAL CONFERENCE ON CORRELATION OPTICS,2013, V.9066
5. Serafimovich, Pavel G.; Kazanskiy, Nikolay L.; Khonina, Svetlana N., Sandwich-typed resonator cavity based on a regular photonic crystal nanobeam//2ND INTERNATIONAL CONFERENCE ON MATHEMATICAL MODELING IN PHYSICAL SCIENCES 2013 (IC-MSQUARE 2013),2014, V.490
6. Degtyarev, Sergey A.; Khonina, Svetlana N.; Ustinov, Andrew V.; Kazanskiy, Nikolay L., Lightning-rod effect near sharp dielectric structures//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2014,2015, V.9533
7. Kazanskiy, N. L.; Kharitonov, S., I; Khonina, S. N.; Volotovskiy, S. G., Simulation of spectral filters used in hyperspectrometer by decomposition on vector Bessel modes//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2014,2015, V.9533
8. Byzov, Egor V.; Moiseev, Mikhail A.; Doskolovich, Leonid L.; Kazanskiy, Nikolay L., Design method for automotive high-beam LED

optics//OPTICAL SYSTEMS DESIGN 2015: ILLUMINATION OPTICS IV,2015, V.9629

9. Kazanskiy, Nikolay L.; Serafimovich, Pavel G.; Zimichev, Evgeniy A.,Spectral-spatial classification of hyperspectral images with k-means plus plus partitional clustering//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2014,2015, V.9533
10. Butt, M. A.; Verma, P.; Rasshchepkina, N. A.; Soloviev, V. S.; Kazanskiy, N. L.; Skidanov, R. V.; Khonina, S. N.; Poletaev, S. D.; Podlipnov, V. V.; Fomchenkov, S. A.; Timoshenkov, S. P.; Timoshenkov, A. S.; Vinogradov, A. I.,Fabrication of Silicon Slanted Grating by using Modified Thermal Deposition Technique to Enhance Fiber-to-Chip Coupling//2016 INTERNATIONAL CONFERENCE ON MICROELECTRONICS, COMPUTING AND COMMUNICATIONS (MICROCOM),2016
11. Verma, Payal; Butt, M. A.; Khonina, Svetlana N.; Kazanskiy, Nikolay L.; Khan, Khamar Zaman; Gopal, Ram,Acceleration Characterization of Dual Purpose Gyro/Accelerometer Device using MS3110 Differential Capacitive Read Out IC//2016 INTERNATIONAL CONFERENCE ON MICROELECTRONICS, COMPUTING AND COMMUNICATIONS (MICROCOM),2016,
12. Degtyarev, Sergey A.; Porfirev, Alexey P.; Khonina, Svetlana N.; Kazanskiy, Nikolay L.,Design of diffractive micro-patterns with weak wavelength dependence//SARATOV FALL MEETING 2015 THIRD INTERNATIONAL SYMPOSIUM ON OPTICS AND BIOPHOTONICS; AND SEVENTH FINNISH-RUSSIAN PHOTONICS AND LASER SYMPOSIUM (PALS),2016, V.9917
13. Juneja, Sucheta; Sudhakar, Selvakumar; Khonina, Svetlana N.; Skidanov, Roman V.; Porfirev, Alexey P.; Moissev, Oleg Yu.; Kazanskiy, Nikolay L.; Kumar, Sushil, Nano crystalline silicon thin films and grating structures For Solar cells//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2015,2016, V.9807
14. Kharitonov, Sergey I.; Kazanskiy, Nikolay L.; Volotovskiy, Sergey G.; Khonina, Svetlana N.,Calculating x-ray diffraction on crystals by means of the differential method//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2015,2016, V.9807
15. Paragin, Vyacheslav D.; Karpeev, Sergei V.; Kazanskiy, Nikolay L.; Krasnov, Andrey P.,Converter of laser beams with circular polarization to cylindrical vector beams based on anisotropic crystals//OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2015,2016, V.9807

16. Savelyev, Dmitry A.; Ustinov, Andrey V.; Khonina, Svetlana N.; Kazanskiy, Nikolay L., Layered lens with a linear dependence of the refractive index change // OPTICAL TECHNOLOGIES FOR TELECOMMUNICATIONS 2015, 2016, V. 9807
17. Andreev, VA; Burdin, VA; Sultanov, AH; и др. Lightning-rod effect near sharp dielectric structures, Proceedings of SPIE, Vol. 9533, Optical Technologies for Tele-communications 2014, 95330A (25 March 2015)
18. Nikolay, Kazanskiy; Vladimir, Protsenko; Pavel, Serafimovich, Performance analysis of sliding window filtering of two dimensional signals based on stream data processing systems // Proceedings of SPIE, 2016, Vol. 9807, Optical Technologies for Telecommunications 2015