

Nikolay Kazanskiy

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2481275/nikolay-kazanskiy-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

203
papers

2,601
citations

26
h-index

35
g-index

220
ext. papers

4,281
ext. citations

1.9
avg, IF

6.3
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 203 | Plasmonic sensors based on Metal-insulator-metal waveguides for refractive index sensing applications: A brief review. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020 , 117, 113798 | 3 | 68 |
| 202 | Vortex phase transmission function as a factor to reduce the focal spot of high-aperture focusing system. <i>Journal of Modern Optics</i> , 2011 , 58, 748-760 | 1.1 | 58 |
| 201 | Design of high-efficient freeform LED lens for illumination of elongated rectangular regions. <i>Optics Express</i> , 2011 , 19 Suppl 3, A225-33 | 3.3 | 57 |
| 200 | Hybrid plasmonic waveguide-assisted Metal-insulator-Metal ring resonator for refractive index sensing. <i>Journal of Modern Optics</i> , 2018 , 65, 1135-1140 | 1.1 | 54 |
| 199 | Plasmonic refractive index sensor based on metal-insulator-metal waveguides with high sensitivity. <i>Journal of Modern Optics</i> , 2019 , 66, 1038-1043 | 1.1 | 49 |
| 198 | Silicon on silicon dioxide slot waveguide evanescent field gas absorption sensor. <i>Journal of Modern Optics</i> , 2018 , 65, 174-178 | 1.1 | 43 |
| 197 | Computer Generated Diffractive Multi-focal Lens. <i>Journal of Modern Optics</i> , 1992 , 39, 1245-1251 | 1.1 | 43 |
| 196 | Injectional multilens molding parameters optimization. <i>Computer Optics</i> , 2016 , 40, 203-214 | 1.4 | 38 |
| 195 | Vortex phase elements as detectors of polarization state. <i>Optics Express</i> , 2015 , 23, 17845-59 | 3.3 | 37 |
| 194 | An evanescent field absorption gas sensor at mid-IR 3.39 μ m wavelength. <i>Journal of Modern Optics</i> , 2017 , 64, 1892-1897 | 1.1 | 36 |
| 193 | IMAGE RESTORATION IN DIFFRACTIVE OPTICAL SYSTEMS USING DEEP LEARNING AND DECONVOLUTION. <i>Computer Optics</i> , 2017 , 41, 875-887 | 1.4 | 34 |
| 192 | Use of photonic crystal cavities for temporal differentiation of optical signals. <i>Optics Letters</i> , 2013 , 38, 1149-51 | 3 | 32 |
| 191 | Evanescent-wave interferometric nanoscale photolithography using guided-mode resonant gratings. <i>Microelectronic Engineering</i> , 2011 , 88, 170-174 | 2.5 | 32 |
| 190 | Synthesis of nanoporous structures in metallic materials under laser action. <i>Optics and Lasers in Engineering</i> , 2011 , 49, 1264-1267 | 4.6 | 31 |
| 189 | Coupled-resonator optical waveguides for temporal integration of optical signals. <i>Optics Express</i> , 2014 , 22, 14004-13 | 3.3 | 30 |
| 188 | Design of an optical element forming an axial line segment for efficient LED lighting systems. <i>Optics Express</i> , 2013 , 21, 28651-6 | 3.3 | 30 |
| 187 | The lensacon: nonparaxial effects. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2011 , 78, 724 | 0.9 | 30 |

| | | | |
|-----|--|-----|----|
| 186 | Design of diffractive lenses for focusing surface plasmons. <i>Journal of Optics (United Kingdom)</i> , 2010 , 12, 015001 | 1.7 | 30 |
| 185 | Modeling the performance of a spaceborne hyperspectrometer based on the offner scheme. <i>Computer Optics</i> , 2015 , 39, 70-76 | 1.4 | 30 |
| 184 | An array of nano-dots loaded MIM square ring resonator with enhanced sensitivity at NIR wavelength range. <i>Optik</i> , 2020 , 202, 163655 | 2.5 | 29 |
| 183 | Highly Sensitive Refractive Index Sensor Based on Plasmonic Bow Tie Configuration. <i>Photonic Sensors</i> , 2020 , 10, 223-232 | 2.3 | 28 |
| 182 | Binary beam splitter. <i>Applied Optics</i> , 2012 , 51, 2672-7 | 1.7 | 28 |
| 181 | Scattering suppression in plasmonic optics using a simple two-layer dielectric structure. <i>Applied Physics Letters</i> , 2011 , 98, 221108 | 3.4 | 28 |
| 180 | SPECTRAL-SPATIAL CLASSIFICATION WITH K-MEANS++ PARTIIONAL CLUSTERING. <i>Computer Optics</i> , 2014 , 38, 281-286 | 1.4 | 28 |
| 179 | A DOE to form a line-shaped directivity diagram. <i>Journal of Modern Optics</i> , 2004 , 51, 1999-2005 | 1.1 | 27 |
| 178 | Microprofile formation by thermal oxidation of molybdenum films. <i>Technical Physics Letters</i> , 2016 , 42, 164-166 | 0.7 | 26 |
| 177 | Low-scattering surface plasmon refraction with isotropic materials. <i>Optics Express</i> , 2014 , 22, 13547-54 | 3.3 | 26 |
| 176 | Fabricating and testing diffractive optical elements focusing into a ring and into a twin-spot 2000 , 4316, 193 | | 26 |
| 175 | Highly sensitive refractive index sensor based on hybrid plasmonic waveguide microring resonator. <i>Waves in Random and Complex Media</i> , 2020 , 30, 292-299 | 1.9 | 26 |
| 174 | Research and Education Center of Diffractive Optics 2012 , | | 25 |
| 173 | Designing reflectors to generate a line-shaped directivity diagram. <i>Journal of Modern Optics</i> , 2005 , 52, 1529-1536 | 1.1 | 25 |
| 172 | Nanodots decorated asymmetric metal-insulator-metal waveguide resonator structure based on Fano resonances for refractive index sensing application. <i>Laser Physics</i> , 2020 , 30, 076204 | 1.2 | 24 |
| 171 | Influence of vortex transmission phase function on intensity distribution in the focal area of high-aperture focusing system. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2011 , 20, 23-42 | 0.7 | 24 |
| 170 | Machine vision system for singularity detection in monitoring the long process. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2010 , 19, 23-30 | 0.7 | 24 |
| 169 | Fibre sensors based on transverse mode selection. <i>Journal of Modern Optics</i> , 2007 , 54, 833-844 | 1.1 | 24 |

| | | | |
|-----|--|-----|----|
| 168 | Focusators for laser-branding. <i>Optics and Lasers in Engineering</i> , 1991 , 15, 311-322 | 4.6 | 24 |
| 167 | MODELING ACTION OF A HYPERSPECTROMETER BASED ON THE OFFNER SCHEME WITHIN GEOMETRIC OPTICS. <i>Computer Optics</i> , 2014 , 38, 271-280 | 1.4 | 24 |
| 166 | Modelling of Rib channel waveguides based on silicon-on-sapphire at 4.67 μm wavelength for evanescent field gas absorption sensor. <i>Optik</i> , 2018 , 168, 692-697 | 2.5 | 23 |
| 165 | A method for the diffractive microrelief formation using the layered photoresist growth. <i>Optics and Lasers in Engineering</i> , 1998 , 29, 281-288 | 4.6 | 23 |
| 164 | Designing a mirror to form a line-shaped directivity diagram. <i>Journal of Modern Optics</i> , 2007 , 54, 589-597 | 1.1 | 23 |
| 163 | Design of DOEs for wavelength division and focusing. <i>Journal of Modern Optics</i> , 2005 , 52, 917-926 | 1.1 | 23 |
| 162 | Linear assignment problem in the design of freeform refractive optical elements generating prescribed irradiance distributions. <i>Optics Express</i> , 2018 , 26, 27812-27825 | 3.3 | 23 |
| 161 | FORMATION OF IMAGES USING MULTILEVEL DIFFRACTIVE LENS. <i>Computer Optics</i> , 2014 , 38, 425-434 | 1.4 | 23 |
| 160 | Nanodots decorated MIM semi-ring resonator cavity for biochemical sensing applications. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2020 , 42, 100836 | 2.6 | 23 |
| 159 | Metal-insulator-metal nano square ring resonator for gas sensing applications. <i>Waves in Random and Complex Media</i> , 2021 , 31, 146-156 | 1.9 | 23 |
| 158 | Toward Ultralightweight Remote Sensing With Harmonic Lenses and Convolutional Neural Networks. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 3338-3348 | 4.7 | 22 |
| 157 | Gas discharge devices generating the directed fluxes of off-electrode plasma. <i>Vacuum</i> , 2014 , 101, 291-297 | 3.7 | 22 |
| 156 | Manufacture of diffractive optical elements by cutting on numerically controlled machine tools. <i>Russian Engineering Research</i> , 2011 , 31, 1268-1272 | 1 | 22 |
| 155 | Metasurfaces with continuous ridges for inverse energy flux generation. <i>Optics Express</i> , 2019 , 27, 15129-15135 | 3.5 | 22 |
| 154 | Highly integrated plasmonic sensor design for the simultaneous detection of multiple analytes. <i>Current Applied Physics</i> , 2020 , 20, 1274-1280 | 2.6 | 22 |
| 153 | Carbon Dioxide Gas Sensor Based on Polyhexamethylene Biguanide Polymer Deposited on Silicon Nano-Cylinders Metasurface. <i>Sensors</i> , 2021 , 21, | 3.8 | 22 |
| 152 | Plasmonics: A Necessity in the Field of Sensing-A Review (Invited). <i>Fiber and Integrated Optics</i> , 2021 , 40, 14-47 | 0.8 | 22 |
| 151 | Evanescent Field Ratio Enhancement of a Modified Ridge Waveguide Structure for Methane Gas Sensing Application. <i>IEEE Sensors Journal</i> , 2020 , 20, 8469-8476 | 4 | 21 |

| | | | |
|-----|---|-----|----|
| 150 | Subwavelength Grating Double Slot Waveguide Racetrack Ring Resonator for Refractive Index Sensing Application. <i>Sensors</i> , 2020 , 20, | 3.8 | 21 |
| 149 | Analytical source-target mapping method for the design of freeform mirrors generating prescribed 2D intensity distributions. <i>Optics Express</i> , 2016 , 24, 10962-71 | 3.3 | 21 |
| 148 | Formation of diffractive microrelief on diamond film surface. <i>Optics and Laser Technology</i> , 2007 , 39, 1234-1238 | 4.1 | 20 |
| 147 | A plasmonic colour filter and refractive index sensor applications based on metal-insulator-metal square μ -ring cavities. <i>Laser Physics</i> , 2020 , 30, 016205 | 1.2 | 20 |
| 146 | Integrated design technology for computer vision systems in railway transportation. <i>Pattern Recognition and Image Analysis</i> , 2015 , 25, 215-219 | 1 | 19 |
| 145 | SIMULATION OF HYPERSPECTROMETER ON SPECTRAL LINEAR VARIABLE FILTERS. <i>Computer Optics</i> , 2014 , 38, 256-270 | 1.4 | 19 |
| 144 | Bessel Beam: Significance and Applications-A Progressive Review. <i>Micromachines</i> , 2020 , 11, | 3.3 | 19 |
| 143 | A multichannel metallic dual nano-wall square split-ring resonator: design analysis and applications. <i>Laser Physics Letters</i> , 2019 , 16, 126201 | 1.5 | 19 |
| 142 | Anisotropic Etching of SiO ₂ in High-Voltage Gas-Discharge Plasmas. <i>Russian Microelectronics</i> , 2004 , 33, 169-182 | 0.5 | 18 |
| 141 | USING COUPLED PHOTONIC CRYSTAL CAVITIES FOR INCREASING OF SENSOR SENSITIVITY. <i>Computer Optics</i> , 2015 , 39, 158-162 | 1.4 | 18 |
| 140 | RECONSTRUCTION OF ANATOMICAL STRUCTURES USING STATISTICAL SHAPE MODELING. <i>Computer Optics</i> , 2017 , 41, 897-904 | 1.4 | 18 |
| 139 | Numerical analysis of a miniaturized design of a Fabry-Berot resonator based on silicon strip and slot waveguides for bio-sensing applications. <i>Journal of Modern Optics</i> , 2019 , 66, 1172-1178 | 1.1 | 17 |
| 138 | Scattering in elements of plasmon optics suppressed by two-layer dielectric structures. <i>Technical Physics Letters</i> , 2011 , 37, 1091-1095 | 0.7 | 17 |
| 137 | Interference pattern generation in evanescent electromagnetic waves for nanoscale lithography using waveguide diffraction gratings. <i>Quantum Electronics</i> , 2011 , 41, 759-764 | 1.8 | 17 |
| 136 | Design and investigation of color separation diffraction gratings. <i>Applied Optics</i> , 2007 , 46, 2825-30 | 1.7 | 17 |
| 135 | Vegetation type recognition in hyperspectral images using a conjugacy indicator. <i>Computer Optics</i> , 2018 , 42, 846-854 | 1.4 | 16 |
| 134 | Silicon photonic devices realized on refractive index engineered subwavelength grating waveguides-A review. <i>Optics and Laser Technology</i> , 2021 , 138, 106863 | 4.2 | 16 |
| 133 | A highly sensitive design of subwavelength grating double-slot waveguide microring resonator. <i>Laser Physics Letters</i> , 2020 , 17, 076201 | 1.5 | 15 |

| | | | |
|-----|---|-----|----|
| 132 | Design of mirrors for generating prescribed continuous illuminance distributions on the basis of the supporting quadric method. <i>Applied Optics</i> , 2016 , 55, 687-95 | 0.2 | 15 |
| 131 | MATHEMATICAL MODEL OF COMPLETELY OPTICAL SYSTEM FOR DETECTION OF MODE PROPAGATION PARAMETERS IN AN OPTICAL FIBER WITH FEW-MODE OPERATION FOR ADAPTIVE COMPENSATION OF MODE COUPLING. <i>Computer Optics</i> , 2013 , 37, 352-359 | 1.4 | 15 |
| 130 | Recent advances in photonic crystal optical devices: A review. <i>Optics and Laser Technology</i> , 2021 , 142, 107265 | 4.2 | 15 |
| 129 | Application of a pseudogeometrical optical approach for calculation of the field formed by a focusator. <i>Optics and Laser Technology</i> , 1996 , 28, 297-300 | 4.2 | 14 |
| 128 | Sensitivity Enhancement of Silicon Strip Waveguide Ring Resonator by Incorporating a Thin Metal Film. <i>IEEE Sensors Journal</i> , 2020 , 20, 1355-1362 | 4 | 14 |
| 127 | Technological line for creation and research of diffractive optical elements 2019 , | | 13 |
| 126 | Enhancing the sensitivity of a standard plasmonic MIM square ring resonator by incorporating the Nano-dots in the cavity. <i>Photonics Letters of Poland</i> , 2020 , 12, 1 | 2.1 | 13 |
| 125 | Ultra-short lossless plasmonic power splitter design based on metal-insulator-metal waveguide. <i>Laser Physics</i> , 2020 , 30, 016201 | 1.2 | 13 |
| 124 | Plasmonic sensor based on metal-insulator-metal waveguide square ring cavity filled with functional material for the detection of CO gas. <i>Optics Express</i> , 2021 , 29, 16584-16594 | 3.3 | 13 |
| 123 | Achievements in the development of plasmonic waveguide sensors for measuring the refractive index. <i>Computer Optics</i> , 2020 , 44, 295-318 | 1.4 | 12 |
| 122 | A T-shaped 1 × 8 balanced optical power splitter based on 90° bend asymmetric vertical slot waveguides. <i>Laser Physics</i> , 2019 , 29, 046207 | 1.2 | 11 |
| 121 | Label-free detection of ambient refractive index based on plasmonic Bragg gratings embedded resonator cavity sensor. <i>Journal of Modern Optics</i> , 2019 , 66, 1920-1925 | 1.1 | 11 |
| 120 | Ultrashort inverted tapered silicon ridge-to-slot waveguide coupler at 1.55 μm and 3.392 μm wavelength. <i>Applied Optics</i> , 2020 , 59, 7821-7828 | 1.7 | 11 |
| 119 | Optical elements based on silicon photonics. <i>Computer Optics</i> , 2019 , 43, 1079-1083 | 1.4 | 11 |
| 118 | Support subspaces method for synthetic aperture radar automatic target recognition. <i>International Journal of Advanced Robotic Systems</i> , 2016 , 13, 172988141666484 | 1.4 | 11 |
| 117 | Thermal oxidative degradation of molybdenum films under laser ablation. <i>Technical Physics</i> , 2015 , 60, 265-269 | 0.5 | 10 |
| 116 | Modal Characteristics of Refractive Index Engineered Hybrid Plasmonic Waveguide. <i>IEEE Sensors Journal</i> , 2020 , 20, 9779-9786 | 4 | 10 |
| 115 | Variable transformation of singular cylindrical vector beams using anisotropic crystals. <i>Scientific Reports</i> , 2020 , 10, 5590 | 4.9 | 10 |

| | | | |
|-----|---|-----|----|
| 114 | Analytical design of refractive optical elements generating one-parameter intensity distributions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 2538-44 | 1.8 | 10 |
| 113 | Distributed storage and parallel processing for large-size optical images 2012 , | | 10 |
| 112 | Harnessing the guided-mode resonance to design nanooptical transmission spectral filters. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2010 , 19, 318-324 | 0.7 | 10 |
| 111 | Synthesis of a binary DOE focusing into an arbitrary curve, using the electromagnetic approximation. <i>Optics and Lasers in Engineering</i> , 1998 , 29, 237-247 | 4.6 | 10 |
| 110 | Calculation of a diffractive lens having a fixed focal position at several prescribed wavelengths. <i>Computer Optics</i> , 2019 , 43, 946-955 | 1.4 | 10 |
| 109 | Diffractive optical elements for multiplexing structured laser beams. <i>Quantum Electronics</i> , 2020 , 50, 629-635 | 1.8 | 10 |
| 108 | State-of-the-Art Optical Devices for Biomedical Sensing ApplicationsA Review. <i>Electronics (Switzerland)</i> , 2021 , 10, 973 | 2.6 | 10 |
| 107 | 2D-Photonic crystal heterostructures for the realization of compact photonic devices. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 44, 100903 | 2.6 | 10 |
| 106 | Compact design of a polarization beam splitter based on silicon-on-insulator platform. <i>Laser Physics</i> , 2018 , 28, 116202 | 1.2 | 10 |
| 105 | Simulation of spectral filters used in hyperspectrometer by decomposition on vector Bessel modes 2015 , | | 9 |
| 104 | Performance analysis of real-time face detection system based on stream data mining frameworks. <i>Procedia Engineering</i> , 2017 , 201, 806-816 | | 9 |
| 103 | Efficiency of deep integration between a research university and an academic institute. <i>Procedia Engineering</i> , 2017 , 201, 817-831 | | 9 |
| 102 | Extraordinary magneto-optical effect of a change in the phase of diffraction orders in dielectric diffraction gratings. <i>Journal of Experimental and Theoretical Physics</i> , 2010 , 111, 967-974 | 1 | 9 |
| 101 | Solving the inverse problem of focusing laser radiation in a plane region using geometrical optics. <i>Computer Optics</i> , 2016 , 40, 439-450 | 1.4 | 9 |
| 100 | A Numerical Investigation of a Plasmonic Sensor Based on a Metal-Insulator-Metal Waveguide for Simultaneous Detection of Biological Analytes and Ambient Temperature. <i>Nanomaterials</i> , 2021 , 11, | 5.4 | 9 |
| 99 | Mesh domain decomposition in the finite-difference solution of Maxwell's equations. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2009 , 18, 203-211 | 0.7 | 8 |
| 98 | Design of an axisymmetrical refractive optical element generating required illuminance distribution and wavefront. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2018 , 35, 1949-1953 | 1.8 | 8 |
| 97 | Caustics of the vortex beams generated by vortex lenses and vortex axicons. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020 , 37, 476-482 | 1.8 | 8 |

| | | | |
|----|---|-----|---|
| 96 | Design of diffractive lenses operating at several wavelengths. <i>Optics Express</i> , 2020 , 28, 11705-11720 | 3.3 | 8 |
| 95 | OBJECT RECOGNITION BY THE RADAR SIGNATURES OF ELECTROMAGNETIC FIELD SCATTERING ON BASE OF SUPPORT SUBSPACES METHOD. <i>Computer Optics</i> , 2014 , 38, 503-510 | 1.4 | 8 |
| 94 | Multifocal spectral diffractive lens. <i>Computer Optics</i> , 2018 , 42, 219-226 | 1.4 | 8 |
| 93 | Plasmonic refractive index sensor based on M-I-M square ring resonator 2018 , | | 8 |
| 92 | Laser beam shaping for modification of materials with ferritic-martensitic structure. <i>Procedia Engineering</i> , 2017 , 201, 164-168 | | 7 |
| 91 | Nonparaxial effects in lensacon optical systems. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2017 , 53, 484-493 | 0.6 | 7 |
| 90 | Studying fabrication errors of the diffraction grating on the end face of a silver-halide fiber. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2007 , 16, 263-268 | 0.7 | 7 |
| 89 | Hybrid plasmonic waveguide race-track $\bar{\Gamma}$ -ring resonator: Analysis of dielectric and hybrid mode for refractive index sensing applications. <i>Laser Physics</i> , 2020 , 30, 016202 | 1.2 | 7 |
| 88 | Polarization-Insensitive Hybrid Plasmonic Waveguide Design for Evanescent Field Absorption Gas Sensor. <i>Photonic Sensors</i> , 2020 , 11, 279 | 2.3 | 7 |
| 87 | Metal-Insulator-Metal Waveguide-Based Racetrack Integrated Circular Cavity for Refractive Index Sensing Application. <i>Electronics (Switzerland)</i> , 2021 , 10, 1419 | 2.6 | 7 |
| 86 | Recent Advances in Generation and Detection of Orbital Angular Momentum Optical Beams-A Review. <i>Sensors</i> , 2021 , 21, | 3.8 | 7 |
| 85 | Two-dimensional photonic crystal heterostructure for light steering and TM-polarization maintaining applications. <i>Laser Physics</i> , 2021 , 31, 036201 | 1.2 | 7 |
| 84 | Device performance of standard strip, slot and hybrid plasmonic $\bar{\Gamma}$ -ring resonator: a comparative study. <i>Waves in Random and Complex Media</i> , 2020 , 1-10 | 1.9 | 6 |
| 83 | Experimental study of optical characteristics of a satellite-based Offner hyperspectrometer 2018 , | | 6 |
| 82 | Real-time analysis of parameters of multiple object detection systems. <i>Computer Optics</i> , 2015 , 39, 582-591 | 1.4 | 6 |
| 81 | Compact Imaging Systems Based on Annular Harmonic Lenses. <i>Sensors</i> , 2020 , 20, | 3.8 | 6 |
| 80 | Numerical simulation of the ablation of thin molybdenum films under laser irradiation. <i>Technical Physics</i> , 2016 , 61, 1279-1285 | 0.5 | 6 |
| 79 | Spectral-spatial classification of hyperspectral images with k-means++ partitional clustering 2015 , | | 5 |

| | | | |
|----|--|-----|---|
| 78 | Ultraviolet-LIGA-based fabrication and characterization of a nonresonant drive-mode vibratory gyro/accelerometer. <i>Journal of Micro/Nanolithography, MEMS, and MOEMS</i> , 2016 , 15, 035001 | 0.7 | 5 |
| 77 | Specific features of the laser irradiation of thin molybdenum films. <i>Technical Physics</i> , 2016 , 61, 579-583 | 0.5 | 5 |
| 76 | Cloud Computing for Rigorous Coupled-Wave Analysis. <i>Advances in Optical Technologies</i> , 2012 , 2012, 1-7 | | 5 |
| 75 | CUDA-enabled implementation of a neural network algorithm for handwritten digit recognition. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2011 , 20, 98-106 | 0.7 | 5 |
| 74 | A method for estimating the DOE's energy efficiency. <i>Optics and Laser Technology</i> , 1995 , 27, 219-221 | 4.2 | 5 |
| 73 | Cloud Computing for Nanophotonic Simulations. <i>Lecture Notes in Computer Science</i> , 2013 , 54-67 | 0.9 | 5 |
| 72 | Numerical investigation of metasurface narrowband perfect absorber and a plasmonic sensor for a near-infrared wavelength range. <i>Journal of Optics (United Kingdom)</i> , 2021 , 23, 065102 | 1.7 | 5 |
| 71 | Spectral characteristics of broad band-rejection filter based on Bragg grating, one-dimensional photonic crystal, and subwavelength grating waveguide. <i>Physica Scripta</i> , 2021 , 96, 055505 | 2.6 | 5 |
| 70 | Revolution in Flexible Wearable Electronics for Temperature and Pressure Monitoring: A Review. <i>Electronics (Switzerland)</i> , 2022 , 11, 716 | 2.6 | 5 |
| 69 | Enhancement of evanescent field ratio in a silicon strip waveguide by incorporating a thin metal film. <i>Laser Physics</i> , 2019 , 29, 076202 | 1.2 | 4 |
| 68 | Softening of Low-alloyed Titanium Billets with Laser Annealing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 302, 012070 | 0.4 | 4 |
| 67 | On a silicon-based photonic-crystal cavity for the near-IR region: Numerical simulation and formation technology. <i>Semiconductors</i> , 2016 , 50, 1112-1116 | 0.7 | 4 |
| 66 | Performance analysis of sliding window filtering of two dimensional signals based on stream data processing systems 2016 , | | 4 |
| 65 | Two-component cavity based on a regular photonic crystal nanobeam. <i>Applied Optics</i> , 2013 , 52, 5830-4 | 1.7 | 4 |
| 64 | Selective excitation of step-index fiber modes 2007 , | | 4 |
| 63 | Comparative analysis of different focusators focusing into a segment. <i>Optics and Laser Technology</i> , 1995 , 27, 207-213 | 4.2 | 4 |
| 62 | Recent Advances in Wearable Optical Sensor Automation Powered by Battery versus Skin-like Battery-Free Devices for Personal Healthcare-A Review.. <i>Nanomaterials</i> , 2022 , 12, | 5.4 | 4 |
| 61 | Design and fabrication of freeform mirrors generating prescribed far-field irradiance distributions. <i>Applied Optics</i> , 2020 , 59, 5006-5012 | 1.7 | 4 |

| | | | |
|----|---|-----|---|
| 60 | Modeling the reflection of the electromagnetic waves at a diffraction grating generated on a curved surface. <i>Computer Optics</i> , 2016 , 40, 194-202 | 1.4 | 4 |
| 59 | A compact design of a modified Bragg grating filter based on a metal-insulator-metal waveguide for filtering and temperature sensing applications. <i>Optik</i> , 2022 , 251, 168466 | 2.5 | 4 |
| 58 | Modern Types of Axicons: New Functions and Applications. <i>Sensors</i> , 2021 , 21, | 3.8 | 4 |
| 57 | Near-Field Vortex Beams Diffraction on Surface Micro-Defects and Diffractive Axicons for Polarization State Recognition. <i>Sensors</i> , 2021 , 21, | 3.8 | 4 |
| 56 | Analysis of the Advantages of Laser Processing of Aerospace Materials Using Diffractive Optics. <i>Metals</i> , 2021 , 11, 963 | 2.3 | 4 |
| 55 | Simulations of dynamic resistive evaporation in a vacuum. <i>Technical Physics</i> , 2017 , 62, 1490-1495 | 0.5 | 3 |
| 54 | Layered lens with a linear dependence of the refractive index change 2016 , | | 3 |
| 53 | Optical modulator based on coupled photonic crystal cavities. <i>Journal of Modern Optics</i> , 2016 , 1-6 | 1.1 | 3 |
| 52 | Design of LED optics with two aspherical surfaces and the highest efficiency 2012 , | | 3 |
| 51 | Synthesis and investigation of diamond diffractive optical elements 2006 , | | 3 |
| 50 | Design of DOEs for multiwavelength demultiplexing and spatial focusing 2004 , 5485, 98 | | 3 |
| 49 | High-effective fiber sensors based on transversal mode selection 2005 , 5854, 163 | | 3 |
| 48 | Focusators at letters diffraction design 1991 , | | 3 |
| 47 | Hybrid metasurface perfect absorbers for temperature and biosensing applications. <i>Optical Materials</i> , 2022 , 123, 111906 | 3.3 | 3 |
| 46 | Fabrication and Investigation of Spectral Properties of a Dielectric Slab Waveguide Photonic Crystal Based Fano-Filter. <i>Crystals</i> , 2022 , 12, 226 | 2.3 | 3 |
| 45 | Arrays Formation of Zinc Oxide Nano-Objects with Varying Morphology for Sensor Applications. <i>Sensors</i> , 2020 , 20, | 3.8 | 3 |
| 44 | Nanocrystalline silicon thin films and grating structures for solar cells 2016 , | | 3 |
| 43 | Advancement in Silicon Integrated Photonics Technologies for Sensing Applications in Near-Infrared and Mid-Infrared Region: A Review. <i>Photonics</i> , 2022 , 9, 331 | 2.2 | 3 |

| | | | |
|----|---|-----|---|
| 42 | Support subspaces method for recognition of the synthetic aperture radar images using fractal compression. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141773395 | 1.4 | 2 |
| 41 | Parameter optimization of a tribometric device for rapid assessment of substrate surface cleanliness. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2008 , 17, 167-172 | 0.7 | 2 |
| 40 | Synthesis of diamond diffractive optical elements for IR laser beam focusing 2005 , | | 2 |
| 39 | A Miniaturized FSS-Based Eight-Element MIMO Antenna Array for Off/On-Body WBAN Telemetry Applications. <i>Electronics (Switzerland)</i> , 2022 , 11, 522 | 2.6 | 2 |
| 38 | A differential method for calculating X-ray diffraction on crystals: scalar theory. <i>Computer Optics</i> , 2015 , 39, 469-479 | 1.4 | 2 |
| 37 | Modeling of image formation with a space-borne Offner hyperspectrometer. <i>Computer Optics</i> , 2020 , 44, 12-21 | 1.4 | 2 |
| 36 | Calculating x-ray diffraction on crystals by means of the differential method 2016 , | | 2 |
| 35 | Supporting quadric method for designing refractive optical elements generating prescribed irradiance distributions and wavefronts. <i>Optics Express</i> , 2021 , 29, 26304-26318 | 3.3 | 2 |
| 34 | Design method for automotive high-beam LED optics 2015 , | | 1 |
| 33 | Calculating the energy spectrum of complex low-dimensional heterostructures in the electric field. <i>Scientific World Journal, The</i> , 2013 , 2013, 807462 | 2.2 | 1 |
| 32 | Information technology of remotely sensed optical image analysis on the basis of multiscale conceptions integration 2007 , | | 1 |
| 31 | Multifocal and combined diffractive elements 1993 , 1992, 226 | | 1 |
| 30 | Wave Fronts Forming By Computer Generated Optical Elements 1990 , | | 1 |
| 29 | Laser beam shaping with purposefully changing of spatial power distribution 2018 , | | 1 |
| 28 | Determination the allowable error to adjustment of a diffractive optical element and the accuracy demanded to set the parameters of the focused beam 2017 , | | 1 |
| 27 | Reactive ion etching of indium-tin oxide films by CCl ₄ -based Inductivity Coupled Plasma. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012105 | 0.3 | 1 |
| 26 | Converter of laser beams with circular polarization to cylindrical vector beams based on anisotropic crystals 2016 , | | 1 |
| 25 | 2D-Heterostructure Photonic Crystal Formation for On-Chip Polarization Division Multiplexing. <i>Photonics</i> , 2021 , 8, 313 | 2.2 | 1 |

| | | | |
|----|---|-----|---|
| 24 | Hybrid design of diffractive optical elements for optical beam shaping. <i>Optics Express</i> , 2021 , 29, 31875-31890 | 1 | |
| 23 | Tailoring of Inverse Energy Flow Profiles with Vector Lissajous Beams. <i>Photonics</i> , 2022 , 9, 121 | 2.2 | 1 |
| 22 | Supporting Quadric Method for Designing Freeform Mirrors That Generate Prescribed Near-Field Irradiance Distributions. <i>Photonics</i> , 2022 , 9, 118 | 2.2 | 1 |
| 21 | Simple and Improved Plasmonic Sensor Configuration Established on MIM Waveguide for Enhanced Sensing Performance. <i>Plasmonics</i> , 1 | 2.4 | 1 |
| 20 | First Earth-Imaging CubeSat with Harmonic Diffractive Lens. <i>Remote Sensing</i> , 2022 , 14, 2230 | 5 | 1 |
| 19 | Active photonic crystal cavities for optical signal integration. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2015 , 24, 260-271 | 0.7 | 0 |
| 18 | Insulator-metal plasmonic waveguide for parasitic scattering suppression in plasmonic optics. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1573-1575 | 0.4 | 0 |
| 17 | Constructing An Adaptive Color Reproduction System With Color Space Reference Regions Recognition. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 1754-1759 | | 0 |
| 16 | Design and investigation of colour separation diffraction gratings. <i>Journal of Optics</i> , 2007 , 9, 123-127 | | 0 |
| 15 | Ultraviolet Nanosecond Laser Treatment to Reduce the Friction Coefficient of Silicon Carbide Ceramics. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 11906 | 2.6 | 0 |
| 14 | A fair comparison of spectral properties of Slot and Hybrid plasmonic micro-ring resonators. <i>Journal of Physics: Conference Series</i> , 2019 , 1410, 012119 | 0.3 | 0 |
| 13 | Testing of diffractive optical element as part of specific CO2 laser equipment for metallic materials modification. <i>Journal of Physics: Conference Series</i> , 2019 , 1368, 022025 | 0.3 | 0 |
| 12 | Academician Evgeny Pavlovich Velikhov and computer optics. <i>Journal of Physics: Conference Series</i> , 2021 , 1745, 012032 | 0.3 | 0 |
| 11 | Modelling of temperature fields in DP1000 steel during laser treatment using diffractive optical elements. <i>Journal of Physics: Conference Series</i> , 2021 , 1745, 012016 | 0.3 | 0 |
| 10 | Analysis of structural features of a LED searchlight. <i>Journal of Physics: Conference Series</i> , 2018 , 1096, 012073 | 0.3 | 0 |
| 9 | Influence of Two-Frequency Radiation Intensity Fluctuations on the Output Signal of a Vortex Optical Fiber Forming OAM Address in Polyharmonic Sensor Technology. <i>Photonics</i> , 2021 , 8, 351 | 2.2 | 0 |
| 8 | Numerical simulation of the performance of a spaceborne Offner imaging hyperspectrometer in the wave optics approximation. <i>Computer Optics</i> , 2022 , 46, 56-64 | 1.4 | 0 |
| 7 | Performance Comparison of Silicon- and Gallium-Nitride-Based MOSFETs for a Power-Efficient, DC-to-DC Flyback Converter. <i>Electronics (Switzerland)</i> , 2022 , 11, 1222 | 2.6 | 0 |

| | | |
|---|--|-----|
| 6 | Compact multichannel spectrometer based on the array of two-component photonic crystal cavities. <i>Pattern Recognition and Image Analysis</i> , 2015 , 25, 526-531 | 1 |
| 5 | Sandwich-typed resonator cavity based on a regular photonic crystal nanobeam. <i>Journal of Physics: Conference Series</i> , 2014 , 490, 012167 | 0.3 |
| 4 | Structural and Polarization Transformations of Laser Beams in Anisotropic Crystals. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2020 , 56, 170-175 | 0.6 |
| 3 | E-beam lithography exposure conditions for the fabrication of RGB filter based on metal/dielectric subwavelength grating. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012150 | 0.3 |
| 2 | Application of photonic-crystal coupled cavities for increase in sensitivity of optical sensor. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2016 , 25, 25-31 | 0.7 |
| 1 | Using a Binary Diffractive Optical Element to Increase the Imaging System Depth of Field in UAV Remote Sensing Tasks. <i>Lecture Notes in Computer Science</i> , 2021 , 566-577 | 0.9 |