

# Aleksey P Porfirev

## List of Publications by Year in Descending Order

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

147  
papers

1,871  
citations

24  
h-index

36  
g-index

189  
ext. papers

2,662  
ext. citations

2.2  
avg, IF

5.82  
L-index

| #   | Paper   | IF    | Citations |
|-----|---|-------|-----------|
| 147 | Tailoring of Inverse Energy Flow Profiles with Vector Lissajous Beams. <i>Photonics</i> , <b>2022</b> , 9, 121  | 2.2   | 1         |
| 146 | Adaptive Detection of Wave Aberrations Based on the Multichannel Filter. <i>Photonics</i> , <b>2022</b> , 9, 204  | 2.2   | 1         |
| 145 | Writing and reading with the longitudinal component of light using carbazole-containing azopolymer thin films.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3477                                      | 4.9   | 4         |
| 144 | Harnessing of inhomogeneously polarized Hermite-Gaussian vector beams to manage the 3D spin angular momentum density distribution. <i>Nanophotonics</i> , <b>2021</b> ,                                 | 6.3   | 3         |
| 143 | Generation of multi-contour plane curves using vortex beams. <i>Optik</i> , <b>2021</b> , 229, 166299   | 2.5   | 4         |
| 142 | Generation of Complex Transverse Energy Flow Distributions with Autofocusing Optical Vortex Beams. <i>Micromachines</i> , <b>2021</b> , 12,   | 3.3   | 6         |
| 141 | Generation of Multiple Vector Optical Bottle Beams. <i>Photonics</i> , <b>2021</b> , 8, 218   | 2.2   | 6         |
| 140 | Two-step maskless fabrication of compound fork-shaped gratings in nanomultilayer structures based on chalcogenide glasses. <i>Optics Letters</i> , <b>2021</b> , 46, 3037-3040                          | 3     | 1         |
| 139 | Metalenses for the generation of vector Lissajous beams with a complex Poynting vector density. <i>Optics Express</i> , <b>2021</b> , 29, 18634-18645   | 3.3   | 8         |
| 138 | Direct Imprinting of Laser Field on Halide Perovskite Single Crystal for Advanced Photonic Applications. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2100094                                 | 8.3   | 10        |
| 137 | Formation of Inverse Energy Flux in the Case of Diffraction of Linearly Polarized Radiation by Conventional and Generalized Spiral Phase Plates. <i>Photonics</i> , <b>2021</b> , 8, 283                | 2.2   | 1         |
| 136 | Stability of topological properties of optical vortices after diffraction on a phase screen. <i>Optics Communications</i> , <b>2021</b> , 479, 126471   | 2     | 1         |
| 135 | Realisation of active pulling/pushing laser beams for light-absorbing particles in the air with a pair of diffractive optical elements. <i>Optics and Laser Technology</i> , <b>2021</b> , 133, 106584  | 4.2   | 3         |
| 134 | Laser manipulation of airborne microparticles behind non-transparent obstacles with the help of circular Airy beams. <i>Applied Optics</i> , <b>2021</b> , 60, 670-675                                  | 1.7   | 2         |
| 133 | Hybrid design of diffractive optical elements for optical beam shaping. <i>Optics Express</i> , <b>2021</b> , 29, 31875-31890   | 3.890 | 1         |
| 132 | Control of the intensity distribution along the light spiral generated by a generalized spiral phase plate. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2021</b> , 38, 420 | 1.7   | 7         |
| 131 | Spiral Caustics of Vortex Beams. <i>Photonics</i> , <b>2021</b> , 8, 24   | 2.2   | 5         |

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|-----|--|-----|----|
| 130 | Subwavelength gratings for creation and focusing of cylindrical vector beams. <i>Journal of Physics: Conference Series</i> , <b>2020</b> , 1461, 012026  | 0.3 |    |
| 129 | Variable transformation of singular cylindrical vector beams using anisotropic crystals. <i>Scientific Reports</i> , <b>2020</b> , 10, 5590  | 4.9 | 10 |
| 128 | Mechanism of formation of an inverse energy flow in a sharp focus. <i>Physical Review A</i> , <b>2020</b> , 101,   | 2.6 | 11 |
| 127 | Properties of vortex light fields generated by generalized spiral phase plates. <i>Physical Review A</i> , <b>2020</b> , 101,  | 2.6 | 21 |
| 126 | Spatial-light-modulator-assisted laser manipulation in air. <i>Optical Engineering</i> , <b>2020</b> , 59, 1   | 1.1 | 2  |
| 125 | Orbital angular momentum and topological charge of a multi-vortex Gaussian beam. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2020</b> , 37, 1740-1747                | 1.8 | 12 |
| 124 | Application of a binary curved fork grating for the generation and detection of optical vortices outside the focal plane. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 1714 | 1.7 | 7  |
| 123 | Sector sandwich structure: an easy-to-manufacture way towards complex vector beam generation. <i>Optics Express</i> , <b>2020</b> , 28, 27628-27643  | 3.3 | 6  |
| 122 | Refractive twisted microaxicons. <i>Optics Letters</i> , <b>2020</b> , 45, 1334-1337   | 3   | 10 |
| 121 | Demonstration of a simple technique for controllable revolution of light-absorbing particles in air. <i>Optics Letters</i> , <b>2020</b> , 45, 1475-1478   | 3   | 6  |
| 120 | Silicon microprotrusions with tailored chirality enabled by direct femtosecond laser ablation. <i>Optics Letters</i> , <b>2020</b> , 45, 3050-3053   | 3   | 6  |
| 119 | Vector Lissajous laser beams. <i>Optics Letters</i> , <b>2020</b> , 45, 4112-4115  | 3   | 16 |
| 118 | Transfer of spin angular momentum to a dielectric particle. <i>Computer Optics</i> , <b>2020</b> , 44, 333-342   | 1.4 | 3  |
| 117 | Structural and Polarization Transformations of Laser Beams in Anisotropic Crystals. <i>Optoelectronics, Instrumentation and Data Processing</i> , <b>2020</b> , 56, 170-175  | 0.6 |    |
| 116 | Femtosecond laser ablation of thin silver films in air and water under tight focusing. <i>Optical Materials Express</i> , <b>2020</b> , 10, 2717   | 2.6 | 1  |
| 115 | Optical Beams: Polarization Conversion of Focused Vortex Beams <b>2020</b> , 341-382   |     |    |
| 114 | Birth of optical vortices in propagating fields with an original fractional topological charge. <i>Computer Optics</i> , <b>2020</b> , 44, 493-500   | 1.4 | 0  |
| 113 | Experimental investigation of the energy backflow in the tight focal spot. <i>Computer Optics</i> , <b>2020</b> , 44, 863-870  | 1.4 | 1  |

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|-----|---|------|----|
| 112 | Spiral phase plate with multiple singularity centers. <i>Computer Optics</i> , <b>2020</b> , 44, 901-908  | 1.4  | 1  |
| 111 | The superposition of the Bessel and mirrored Bessel beams and investigation of their self-healing characteristic. <i>Optik</i> , <b>2020</b> , 208, 164057  | 2.5  | 4  |
| 110 | Diffraction optical elements for multiplexing structured laser beams. <i>Quantum Electronics</i> , <b>2020</b> , 50, 629-635  | 1.8  | 10 |
| 109 | Wavefront Aberration Sensor Based on a Multichannel Diffractive Optical Element. <i>Sensors</i> , <b>2020</b> , 20,   | 3.8  | 13 |
| 108 | Evolution of an optical vortex with an initial fractional topological charge. <i>Physical Review A</i> , <b>2020</b> , 102,   | 2.6  | 12 |
| 107 | Orbital Energy and Spin Flows in a Strong Focus of Laser Light. <i>IEEE Photonics Journal</i> , <b>2020</b> , 12, 1-13  | 1.8  | 0  |
| 106 | Spin-orbit and orbit-spin conversion in the sharp focus of laser light: Theory and experiment. <i>Physical Review A</i> , <b>2020</b> , 102,  | 2.6  | 8  |
| 105 | Modification of the Gerchberg-Saxton algorithm for the generation of speckle-reduced intensity distributions of micrometer and submicrometer dimensions. <i>Optik</i> , <b>2019</b> , 195, 163163   | 2.5  | 3  |
| 104 | Fractional two-parameter parabolic diffraction-free beams. <i>Optics Communications</i> , <b>2019</b> , 450, 103-111  | 2    | 6  |
| 103 | Spatiotemporal dynamics of the polarisation state of laser radiation performed by lens-axicon combinations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 2535-2541                                 | 2.3  | 4  |
| 102 | Plasmon excitation of gold split-ring array: spectral studies and numerical simulation. <i>Laser Physics Letters</i> , <b>2019</b> , 16, 066007   | 1.5  | 1  |
| 101 | Single-Mode Lasing from Imprinted Halide-Perovskite Microdisks. <i>ACS Nano</i> , <b>2019</b> , 13, 4140-4147   | 16.7 | 89 |
| 100 | High-throughput micropatterning of plasmonic surfaces by multiplexed femtosecond laser pulses for advanced IR-sensing applications. <i>Applied Surface Science</i> , <b>2019</b> , 484, 948-956   | 6.7  | 18 |
| 99  | Symmetric nanostructuring and plasmonic excitation of gold nanostructures by femtosecond Laguerre-Gaussian laser beams. <i>Quantum Electronics</i> , <b>2019</b> , 49, 666-671  | 1.8  | 2  |
| 98  | Efficient generation of arrays of closed-packed high-quality light rings. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2019</b> , 37, 100736  | 2.6  | 6  |
| 97  | Three different types of astigmatic Hermite-Gaussian beams with orbital angular momentum. <i>Journal of Optics (United Kingdom)</i> , <b>2019</b> , 21, 115601  | 1.7  | 10 |
| 96  | Optical millifluidic tool for the massive transfer of airborne light-absorbing particles. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 201103  | 3.4  | 5  |
| 95  | Dynamic focal shift and extending depth of focus based on the masking of the illuminating beam and using an adjustable axicon. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2019</b> , 36, 1039-1047 | 1.8  | 12 |

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|----|---|-----|----|
| 94 | Astigmatic transformation of optical vortex beams with high-order cylindrical polarization. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2193                    | 1.7 | 4  |
| 93 | Vortex astigmatic Fourier-invariant Gaussian beams. <i>Optics Express</i> , <b>2019</b> , 27, 657-666   | 3.3 | 11 |
| 92 | Calculation of fractional orbital angular momentum of superpositions of optical vortices by intensity moments. <i>Optics Express</i> , <b>2019</b> , 27, 11236-11251  | 3.3 | 27 |
| 91 | Recognition of polarization and phase states of light based on the interaction of non-uniformly polarized laser beams with singular phase structures. <i>Optics Express</i> , <b>2019</b> , 27, 18484-18492 | 3.3 | 24 |
| 90 | 10-million-elements-per-second printing of infrared-resonant plasmonic arrays by multiplexed laser pulses. <i>Optics Letters</i> , <b>2019</b> , 44, 283-286  | 3   | 12 |
| 89 | Symmetry-wise nanopatterning and plasmonic excitation of ring-like gold nanoholes by structured femtosecond laser pulses with different polarizations. <i>Optics Letters</i> , <b>2019</b> , 44, 1129-1132  | 3   | 7  |
| 88 | Orbital angular momentum of a laser beam behind an off-axis spiral phase plate. <i>Optics Letters</i> , <b>2019</b> , 44, 3673-3676   | 3   | 15 |
| 87 | Methods for determining the orbital angular momentum of a laser beam. <i>Computer Optics</i> , <b>2019</b> , 43, 42-53  | 1.4 | 2  |
| 86 | Measurement of the orbital angular momentum of an astigmatic Hermite-Gaussian beam. <i>Computer Optics</i> , <b>2019</b> , 43, 356-367  | 1.4 | 1  |
| 85 | Topological stability of optical vortices diffracted by a random phase screen. <i>Computer Optics</i> , <b>2019</b> , 43, 917-925   | 1.4 | 6  |
| 84 | Measuring the orbital angular momentum of light beams by using a single intensity distribution. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1400, 066025                                   | 0.3 | 1  |
| 83 | Development of subwavelength diffractive optical elements manufacturing process for photonic devices. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1410, 012247                             | 0.3 | 0  |
| 82 | Optical and Structural Phenomena at Multipulse Interference Femtosecond Laser Fabrication of Metasurfaces on a Thin Film of Amorphous Silicon. <i>JETP Letters</i> , <b>2019</b> , 110, 755-759             | 1.2 | 2  |
| 81 | Plasmonic Nanolenses Produced by Cylindrical Vector Beam Printing for Sensing Applications. <i>Scientific Reports</i> , <b>2019</b> , 9, 19750  | 4.9 | 16 |
| 80 | Measurement of the fractional orbital angular momentum of asymmetric laser beams by using two cylindrical lenses. <i>Journal of Physics: Conference Series</i> , <b>2019</b> , 1368, 022019                 | 0.3 |    |
| 79 | Chirality of laser-printed plasmonic nanoneedles tunable by tailoring spiral-shape pulses. <i>Applied Surface Science</i> , <b>2019</b> , 470, 526-534  | 6.7 | 35 |
| 78 | Elliptic perfect optical vortices. <i>Optik</i> , <b>2018</b> , 156, 49-59  | 2.5 | 12 |
| 77 | Sudden autofocusing of superlinear chirp beams. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 025605  | 1.7 | 30 |

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|----|---|-----|----|
| 76 | Polarization-selective Excitation of Dye Luminescence on a Gold Film by Structured Ultrashort Laser Pulses. <i>JETP Letters</i> , <b>2018</b> , 107, 15-18                    | 1.2 | 11 |
| 75 | Aberration laser beams with autofocusing properties. <i>Applied Optics</i> , <b>2018</b> , 57, 1410-1416  | 1.7 | 23 |
| 74 | Astigmatic laser beams with a large orbital angular momentum. <i>Optics Express</i> , <b>2018</b> , 26, 141-156   | 3.3 | 21 |
| 73 | Polarisation-dependent transformation of vortex beams when focused perpendicular to the crystal axis. <i>Optics Communications</i> , <b>2018</b> , 428, 63-68                 | 2   | 7  |
| 72 | ORBITAL ANGULAR MOMENTUM OF AN ASTIGMATIC HERMITE-GAUSSIAN BEAM. <i>Computer Optics</i> , <b>2018</b> , 42, 13-21   | 1.4 | 3  |
| 71 | Fabrication of phase diffractive optical elements by direct laser writing process in aluminum thin films <b>2018</b> ,  |     | 1  |
| 70 | A Spiral Phase Plate for an Optical Vortices Generation <b>2018</b> , 1-43  |     | 6  |
| 69 | Orbital angular momentum of Gaussian optical vortices with displaced point of phase singularity. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1096, 012119    | 0.3 |    |
| 68 | Development of diffractive optical elements with low surface roughness by direct laser writing. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1124, 051041     | 0.3 |    |
| 67 | Ultrafast laser printing of self-organized bimetallic nanotextures for multi-wavelength biosensing. <i>Scientific Reports</i> , <b>2018</b> , 8, 16489                        | 4.9 | 9  |
| 66 | Binary diffractive optics for 3D-demultiplexing of OAM beams. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1124, 051015                                       | 0.3 | 0  |
| 65 | Non-ring perfect optical vortices with p-th order symmetry generated using composite diffractive optical elements. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 171105 | 3.4 | 5  |
| 64 | Formation of hybrid higher-order cylindrical vector beams using binary multi-sector phase plates. <i>Scientific Reports</i> , <b>2018</b> , 8, 14320                          | 4.9 | 32 |
| 63 | Tuning chirality of laser-printed plasmonic nanoneedles via tailored spiral-shape pulses. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1092, 012147           | 0.3 | 1  |
| 62 | 3D transformations of light fields in the focal region implemented by diffractive axicons. <i>Applied Physics B: Lasers and Optics</i> , <b>2018</b> , 124, 1                 | 1.9 | 19 |
| 61 | Radial dependence of the angular momentum density of a paraxial optical vortex. <i>Physical Review A</i> , <b>2018</b> , 97,  | 2.6 | 10 |
| 60 | Comparison of propagation of vortex and non-vortex laser beams in a random medium <b>2017</b> ,   |     | 1  |
| 59 | Diffractive axicon with tunable fill factor for focal ring splitting <b>2017</b> ,  |     | 10 |

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|----|---|-----|----|
| 58 | Generation of azimuthally modulated circular superlinear Airy beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, 2544   | 1.7 | 20 |
| 57 | Multi-beam pulsed-laser patterning of plasmonic films using broadband diffractive optical elements. <i>Optics Letters</i> , <b>2017</b> , 42, 2838-2841   | 3   | 33 |
| 56 | A highly efficient element for generating elliptic perfect optical vortices. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 261102   | 3.4 | 34 |
| 55 | Effect of laser radiation power on laser trapping of light-absorbing microparticles in air. <i>Procedia Engineering</i> , <b>2017</b> , 201, 48-52  |     | 1  |
| 54 | Elliptic Gaussian optical vortices. <i>Physical Review A</i> , <b>2017</b> , 95,  | 2.6 | 31 |
| 53 | Astigmatic transforms of an optical vortex for measurement of its topological charge. <i>Applied Optics</i> , <b>2017</b> , 56, 4095-4104   | 0.2 | 74 |
| 52 | Simultaneous wavelength and orbital angular momentum demultiplexing using tunable MEMS-based Fabry-Perot filter. <i>Optics Express</i> , <b>2017</b> , 25, 9634-9646  | 3.3 | 19 |
| 51 | Direct laser printing of chiral plasmonic nanojets by vortex beams. <i>Optics Express</i> , <b>2017</b> , 25, 10214-10223   | 3.3 | 71 |
| 50 | Simple method for efficient reconfigurable optical vortex beam splitting. <i>Optics Express</i> , <b>2017</b> , 25, 18722-18735   | 3.3 | 54 |
| 49 | Zero-orbital-angular-momentum laser printing of chiral nanoneedles. <i>Optics Letters</i> , <b>2017</b> , 42, 5022-5025   | 3   | 27 |
| 48 | Asymmetric Gaussian optical vortex. <i>Optics Letters</i> , <b>2017</b> , 42, 139-142   | 3   | 39 |
| 47 | Effect of the fill factor of an annular diffraction grating on the energy distribution in the focal plane. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , <b>2017</b> , 84, 580 | 0.9 | 11 |
| 46 | Zernike basis-matched multi-order diffractive optical elements for wavefront weak aberrations analysis <b>2017</b> ,  |     | 6  |
| 45 | Study of propagation of vortex beams in aerosol optical medium. <i>Applied Optics</i> , <b>2017</b> , 56, E8-E15  | 0.2 | 37 |
| 44 | FRACTIONAL ORBITAL ANGULAR MOMENTUM OF A GAUSSIAN BEAM WITH AN EMBEDDED OFF-AXIS OPTICAL VORTEX. <i>Computer Optics</i> , <b>2017</b> , 41, 22-29   | 1.4 | 6  |
| 43 | Orbital angular momentum of an elliptic optical vortex embedded into the Gaussian beam. <i>Computer Optics</i> , <b>2017</b> , 41, 330-337  | 1.4 | 2  |
| 42 | On-Fly Femtosecond-Laser Fabrication of Self-Organized Plasmonic Nanotextures for Chemo- and Biosensing Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24946-55               | 9.5 | 47 |
| 41 | Asymmetric Laguerre-Gaussian beams. <i>Physical Review A</i> , <b>2016</b> , 93,  | 2.6 | 41 |

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|----|---|-----|-----|
| 40 | Demonstration of vortical beams spectral stability formed in non-zero diffraction orders. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 735, 012023                            | 0.3 | 2   |
| 39 | Auto-focusing accelerating hyper-geometric laser beams. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 025610  | 1.7 | 16  |
| 38 | Photonic nanohelix generated by a binary spiral axicon. <i>Applied Optics</i> , <b>2016</b> , 55, B44-8   | 1.7 | 27  |
| 37 | Singular laser beams nanofocusing with dielectric nanostructures: theoretical investigation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 2480     | 1.7 | 10  |
| 36 | Optical trapping and moving of microparticles using asymmetrical bessel-gaussian beams. <i>Computer Optics</i> , <b>2016</b> , 40, 152-157  | 1.4 | 13  |
| 35 | Transfer of orbital angular momentum from asymmetric laguerre-gaussian beams to dielectric microparticles. <i>Computer Optics</i> , <b>2016</b> , 40, 305-311                                 | 1.4 | 3   |
| 34 | Generating a perfect optical vortex: comparison of approaches. <i>Computer Optics</i> , <b>2016</b> , 40, 312-321   | 1.4 | 2   |
| 33 | Optimal phase element for generating a perfect optical vortex. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2016</b> , 33, 2376-2384         | 1.8 | 32  |
| 32 | Phase quantization of diffractive optical elements for the formation of predetermined symmetric light distributions. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 735, 012027 | 0.3 | 0   |
| 31 | Axicons for power conversion efficiency enhancement in solar cells for the visible spectrum. <i>Journal of Physics: Conference Series</i> , <b>2016</b> , 741, 012102                         | 0.3 |     |
| 30 | An optical tweezer in asymmetrical vortex Bessel-Gaussian beams. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 023101  | 2.5 | 25  |
| 29 | Polarization conversion when focusing cylindrically polarized vortex beams. <i>Scientific Reports</i> , <b>2016</b> , 6, 6  | 4.9 | 181 |
| 28 | Experimental investigation of multi-order diffractive optical elements matched with two types of Zernike functions <b>2016</b> ,  |     | 9   |
| 27 | Optical trapping and moving of microparticles by using asymmetrical Laguerre-Gaussian beams. <i>Optics Letters</i> , <b>2016</b> , 41, 2426-9   | 3   | 37  |
| 26 | Nanocrystalline silicon thin films and grating structures for solar cells <b>2016</b> ,   |     | 3   |
| 25 | Three-dimensional laser trapping on the base of binary radial diffractive optical element. <i>Journal of Modern Optics</i> , <b>2015</b> , 62, 1183-1186                                      | 1.1 | 10  |
| 24 | Dark-hollow optical beams with a controllable shape for optical trapping in air. <i>Optics Express</i> , <b>2015</b> , 23, 8373-82  | 3.3 | 27  |
| 23 | Tight focusing of an asymmetric Bessel beam. <i>Optics Communications</i> , <b>2015</b> , 357, 45-51  | 2   | 8   |



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|----|--|-----|----|
| 22 | Local foci of a parabolic binary diffraction lens. <i>Applied Optics</i> , <b>2015</b> , 54, 5680-5  | 0.2 | 13 |
| 21 | Optical trapping and manipulation of light-absorbing particles by means of a Hermite-Gaussian laser beam. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , <b>2015</b> , 82, 587                       | 0.9 | 14 |
| 20 | Shifted nondiffractive Bessel beams. <i>Physical Review A</i> , <b>2015</b> , 91,  | 2.6 | 7  |
| 19 | Diffraction patterns with $m$ th order symmetry generated by sectional spiral phase plates. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 125607   | 1.7 | 15 |
| 18 | Vortex Hermite-Gaussian laser beams. <i>Optics Letters</i> , <b>2015</b> , 40, 701-4   | 3   | 48 |
| 17 | Half Pearcey laser beams. <i>Journal of Optics (United Kingdom)</i> , <b>2015</b> , 17, 035604   | 1.7 | 38 |
| 16 | Sharp focusing of linearly polarized asymmetric Bessel beam. <i>Computer Optics</i> , <b>2015</b> , 39, 36-44  | 1.4 | 2  |
| 15 | ANALYSIS OF THE ORBITAL ANGULAR MOMENTUM OF SUPERPOSITION OF DIFFRACTION-FREE BESSEL BEAMS WITH A COMPLEX SHIFT. <i>Computer Optics</i> , <b>2015</b> , 39, 172-180  | 1.4 | 3  |
| 14 | STUDY OF FOCUSING INTO CLOSELY SPACED SPOTS VIA ILLUMINATING A DIFFRACTIVE OPTICAL ELEMENT BY A SHORT-PULSE LASER BEAM. <i>Computer Optics</i> , <b>2015</b> , 39, 187-196   | 1.4 | 4  |
| 13 | An imaging spectrometer based on a discrete interference filter. <i>Computer Optics</i> , <b>2015</b> , 39, 716-720  | 1.4 | 3  |
| 12 | Formation of optical beams with given intensity distribution in transverse plane for deposition and positioning of microscopic objects. <i>Optical Memory and Neural Networks (Information Optics)</i> , <b>2014</b> , 23, 233-239 | 0.7 |    |
| 11 | Various superpositions of Bessel beams for capture and controlled rotation of microobjects <b>2014</b> ,   |     | 1  |
| 10 | Generation of hollow optical beams for optical manipulation <b>2014</b> ,  |     | 2  |
| 9  | A SIMPLE METHOD OF THE FORMATION NONDIFFRACTING HOLLOW OPTICAL BEAMS WITH INTENSITY DISTRIBUTION IN FORM OF A REGULAR POLYGON CONTOUR. <i>Computer Optics</i> , <b>2014</b> , 38, 243-248  | 1.4 | 3  |
| 8  | GENERATION OF HALF-PEARCEY LASER BEAMS BY A SPATIAL LIGHT MODULATOR. <i>Computer Optics</i> , <b>2014</b> , 38, 658-662  | 1.4 | 5  |
| 7  | MANIPULATION OF MICRO-OBJECTS USING LINEAR TRAPS GENERATED BY VORTEX AXICONS. <i>Computer Optics</i> , <b>2014</b> , 38, 717-721   | 1.4 | 3  |
| 6  | HERMITE-GAUSSIAN LASER BEAMS WITH ORBITAL ANGULAR MOMENTUM. <i>Computer Optics</i> , <b>2014</b> , 38, 651-657   | 1.4 | 2  |
| 5  | Generation of an array of optical bottle beams using a superposition of Bessel beams. <i>Applied Optics</i> , <b>2013</b> , 52, 6230-8   | 1.7 | 23 |

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|---|---|-----|----|
| 4 | Vortex Laser Beams  |     | 15 |
| 3 | Laser Printing of Chiral Silicon Nanoprotrusions by Asymmetric Donut-Shaped Femtosecond Pulses. <i>Solid State Phenomena</i> ,312, 107-112  | 0.4 |    |
| 2 | Coaxial Aperture Arrays Produced by Ultrafast Direct Femtosecond Laser Processing with Spatially Multiplexed Cylindrical Vector Beams. <i>Solid State Phenomena</i> ,312, 148-153 | 0.4 |    |
| 1 | Phase singularities and optical vortices in photonics. <i>Physics-Uspokhi</i> ,   | 2.8 | 2  |