

Svetlana N Khonina

List of Publications by Year in descending order

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480
papers

10,326
citations

41344

49
h-index

85541

71
g-index

491
all docs

491
docs citations

491
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	The Phase Rotor Filter. <i>Journal of Modern Optics</i> , 1992, 39, 1147-1154.	1.3	294
2	Generation of phase singularity through diffracting a plane or Gaussian beam by a spiral phase plate. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 849.	1.5	278
3	Polarization conversion when focusing cylindrically polarized vortex beams. <i>Scientific Reports</i> , 2016, 6, 6.	3.3	244
4	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.	2.7	158
5	Hypergeometric modes. <i>Optics Letters</i> , 2007, 32, 742.	3.3	116
6	Direct laser printing of chiral plasmonic nanojets by vortex beams. <i>Optics Express</i> , 2017, 25, 10214.	3.4	116
7	Vortex beams in turbulent media: review. <i>Computer Optics</i> , 2016, 40, 605-624.	2.2	110
8	Bessel Beam: Significance and Applications – A Progressive Review. <i>Micromachines</i> , 2020, 11, 997.	2.9	101
9	An analysis of the angular momentum of a light field in terms of angular harmonics. <i>Journal of Modern Optics</i> , 2001, 48, 1543-1557.	1.3	95
10	Diffraction of a plane, finite-radius wave by a spiral phase plate. <i>Optics Letters</i> , 2006, 31, 1597.	3.3	88
11	Plasmonic refractive index sensor based on metal-insulator-metal waveguides with high sensitivity. <i>Journal of Modern Optics</i> , 2019, 66, 1038-1043.	1.3	88
12	Trochoson. <i>Optics Communications</i> , 1992, 91, 158-162.	2.1	85
13	Elliptic Laguerre-Gaussian beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 43.	1.5	82
14	Hybrid plasmonic waveguide-assisted Metal-insulator-Metal ring resonator for refractive index sensing. <i>Journal of Modern Optics</i> , 2018, 65, 1135-1140.	1.3	79
15	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.	1.3	78
16	Recent advances in photonic crystal optical devices: A review. <i>Optics and Laser Technology</i> , 2021, 142, 107265.	4.6	78
17	Vortex phase elements as detectors of polarization state. <i>Optics Express</i> , 2015, 23, 17845.	3.4	74
18	Gauss-Laguerre modes with different indices in prescribed diffraction orders of a diffractive phase element. <i>Optics Communications</i> , 2000, 175, 301-308.	2.1	71

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19	Rotation of laser beams with zero of the orbital angular momentum. Optics Communications, 2007, 274, 8-14.	2.1	70
20	An algorithm for the generation of laser beams with longitudinal periodicity: Rotating images. Journal of Modern Optics, 1997, 44, 1409-1416.	1.3	68
21	Light field decomposition in angular harmonics by means of diffractive optics. Journal of Modern Optics, 1998, 45, 1495-1506.	1.3	68
22	Controlling the contribution of the electric field components to the focus of a high-aperture lens using binary phase structures. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2010, 27, 2188.	1.5	68
23	Study of propagation of vortex beams in aerosol optical medium. Applied Optics, 2017, 56, E8.	2.1	68
24	Simple phase optical elements for narrowing of a focal spot in high-numerical-aperture conditions. Optical Engineering, 2013, 52, 091711.	1.0	67
25	Use of photonic crystal cavities for temporal differentiation of optical signals. Optics Letters, 2013, 38, 1149.	3.3	65
26	Generation of cylindrical vector beams of high orders using uniaxial crystals. Journal of Optics (United Kingdom), 2015, 17, 065001.	2.2	65
27	Silicon on silicon dioxide slot waveguide evanescent field gas absorption sensor. Journal of Modern Optics, 2018, 65, 174-178.	1.3	65
28	Rotation of microparticles with Bessel beams generated by diffractive elements. Journal of Modern Optics, 2004, 51, 2167-2184.	1.3	64
29	The lensacon: nonparaxial effects. Journal of Optical Technology (A Translation of Opticheskie) Tj ETQq1 1 0.784314 rggBT /Overlock 10 T 0.4 63	0.4	63
30	Generation and selection of laser beams represented by a superposition of two angular harmonics. Journal of Modern Optics, 2004, 51, 761-773.	1.3	62
31	Specular and vortical Airy beams. Optics Communications, 2011, 284, 4263-4271.	2.1	62
32	Experimental demonstration of the generation of the longitudinal E_z -field component on the optical axis with high-numerical-aperture binary axicons illuminated by linearly and circularly polarized beams. Journal of Optics (United Kingdom), 2013, 15, 085704.	2.2	62
33	Fibre sensors based on transverse mode selection. Journal of Modern Optics, 2007, 54, 833-844.	1.3	61
34	Strengthening the longitudinal component of the sharply focused electric field by means of higher-order laser beams. Optics Letters, 2013, 38, 3223.	3.3	61
35	A technique for simultaneous detection of individual vortex states of Laguerre-Gaussian beams transmitted through an aqueous suspension of microparticles. Optics and Lasers in Engineering, 2018, 105, 68-74.	3.8	61
36	On-Fly Femtosecond-Laser Fabrication of Self-Organized Plasmonic Nanotextures for Chemo- and Biosensing Applications. ACS Applied Materials & Interfaces, 2016, 8, 24946-24955.	8.0	58

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37	Carbon Dioxide Gas Sensor Based on Polyhexamethylene Biguanide Polymer Deposited on Silicon Nano-Cylinders Metasurface. <i>Sensors</i> , 2021, 21, 378.	3.8	58
38	Chirality of laser-printed plasmonic nanoneedles tunable by tailoring spiral-shape pulses. <i>Applied Surface Science</i> , 2019, 470, 526-534.	6.1	57
39	Encoded binary diffractive element to form hyper-geometric laser beams. <i>Journal of Optics</i> , 2009, 11, 065702.	1.5	56
40	Rotating optical fields. <i>Journal of Modern Optics</i> , 1998, 45, 2355-2369.	1.3	55
41	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.	1.0	55
42	High-aperture binary axicons for the formation of the longitudinal electric field component on the optical axis for linear and circular polarizations of the illuminating beam. <i>Journal of Experimental and Theoretical Physics</i> , 2013, 117, 623-630.	0.9	54
43	Optimization of focusing of linearly polarized light. <i>Optics Letters</i> , 2011, 36, 352.	3.3	53
44	Generation of rotating gauss-Laguerre modes with binary-phase diffractive optics. <i>Journal of Modern Optics</i> , 1999, 46, 227-238.	1.3	52
45	Astigmatic bessel laser beams. <i>Journal of Modern Optics</i> , 2004, 51, 677-686.	1.3	52
46	An evanescent field absorption gas sensor at mid-IR 3.39 μ m wavelength. <i>Journal of Modern Optics</i> , 2017, 64, 1892-1897.	1.3	52
47	Plasmonics: A Necessity in the Field of Sensing-A Review (Invited). <i>Fiber and Integrated Optics</i> , 2021, 40, 14-47.	2.5	52
48	Modern Types of Axicons: New Functions and Applications. <i>Sensors</i> , 2021, 21, 6690.	3.8	52
49	Highly Sensitive Refractive Index Sensor Based on Plasmonic Bow Tie Configuration. <i>Photonic Sensors</i> , 2020, 10, 223-232.	5.0	51
50	Multi-beam pulsed-laser patterning of plasmonic films using broadband diffractive optical elements. <i>Optics Letters</i> , 2017, 42, 2838.	3.3	50
51	Diffractive optical elements for multiplexing structured laser beams. <i>Quantum Electronics</i> , 2020, 50, 629-635.	1.0	50
52	How low can STED go? Comparison of different write-erase beam combinations for stimulated emission depletion microscopy. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 2242.	1.5	49
53	Engineering the smallest 3D symmetrical bright and dark focal spots. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2013, 30, 2029.	1.5	49
54	Algorithm for the Generation of Non-diffracting Bessel Modes. <i>Journal of Modern Optics</i> , 1995, 42, 1231-1239.	1.3	48

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55	Diffraction of conic and Gaussian beams by a spiral phase plate. <i>Applied Optics</i> , 2006, 45, 2656.	2.1	48
56	Enlightening darkness to diffraction limit and beyond: comparison and optimization of different polarizations for dark spot generation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2012, 29, 1470.	1.5	48
57	Effective transformation of a zero-order Bessel beam into a second-order vortex beam using a uniaxial crystal. <i>Laser Physics</i> , 2014, 24, 056101.	1.2	48
58	Highly sensitive refractive index sensor based on hybrid plasmonic waveguide microring resonator. <i>Waves in Random and Complex Media</i> , 2020, 30, 292-299.	2.7	48
59	An array of nano-dots loaded MIM square ring resonator with enhanced sensitivity at NIR wavelength range. <i>Optik</i> , 2020, 202, 163655.	2.9	48
60	Fractional Airy beams. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 1991.	1.5	47
61	Subwavelength Grating Double Slot Waveguide Racetrack Ring Resonator for Refractive Index Sensing Application. <i>Sensors</i> , 2020, 20, 3416.	3.8	47
62	Metal-insulator-metal nano square ring resonator for gas sensing applications. <i>Waves in Random and Complex Media</i> , 2021, 31, 146-156.	2.7	46
63	Recent Advances in Generation and Detection of Orbital Angular Momentum Optical Beams—A Review. <i>Sensors</i> , 2021, 21, 4988.	3.8	46
64	Modeling action of a hyperspectrometer based on the offner scheme within geometric optics. <i>Computer Optics</i> , 2014, 38, 271-280.	2.2	45
65	Calculation of the Focusators into a Longitudinal Line-segment and Study of a Focal Area. <i>Journal of Modern Optics</i> , 1993, 40, 761-769.	1.3	44
66	Nanodots decorated MIM semi-ring resonator cavity for biochemical sensing applications. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2020, 42, 100836.	2.0	44
67	Properties of vortex light fields generated by generalized spiral phase plates. <i>Physical Review A</i> , 2020, 101, .	2.5	44
68	Sudden autofocusing of superlinear chirp beams. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 025605.	2.2	43
69	Simulation of hyperspectrometer on spectral linear variable filters. <i>Computer Optics</i> , 2014, 38, 256-270.	2.2	43
70	Generating hypergeometric laser beams with a diffractive optical element. <i>Applied Optics</i> , 2008, 47, 6124.	2.1	42
71	Diffraction at binary microaxicons in the near field. <i>Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314 rgBT /Overlock</i>	0.4	42
72	Polarization converter for higher-order laser beams using a single binary diffractive optical element as beam splitter. <i>Optics Letters</i> , 2012, 37, 2385.	3.3	42

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73	Polarization conversion under focusing of vortex laser beams along the axis of anisotropic crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2444-2455.	2.1	42
74	Formation of hybrid higher-order cylindrical vector beams using binary multi-sector phase plates. <i>Scientific Reports</i> , 2018, 8, 14320.	3.3	42
75	Silicon photonic devices realized on refractive index engineered subwavelength grating waveguides-A review. <i>Optics and Laser Technology</i> , 2021, 138, 106863.	4.6	42
76	Formation of images using multilevel diffractive lens. <i>Computer Optics</i> , 2014, 38, 425-434.	2.2	42
77	Analysis of wave aberration influence on reducing focal spot size in a high-aperture focusing system. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 095702.	2.2	41
78	Narrowing of a light spot at diffraction of linearly-polarized beam on binary asymmetric axicons. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2012, 21, 17-26.	1.0	41
79	Evanescent Field Ratio Enhancement of a Modified Ridge Waveguide Structure for Methane Gas Sensing Application. <i>IEEE Sensors Journal</i> , 2020, 20, 8469-8476.	4.7	40
80	Photonic nanohelix generated by a binary spiral axicon. <i>Applied Optics</i> , 2016, 55, B44.	1.8	39
81	Plasmonic sensor based on metal-insulator-metal waveguide square ring cavity filled with functional material for the detection of CO ₂ gas. <i>Optics Express</i> , 2021, 29, 16584.	3.4	39
82	Achievements in the development of plasmonic waveguide sensors for measuring the refractive index. <i>Computer Optics</i> , 2020, 44, .	2.2	39
83	Zero-orbital-angular-momentum laser printing of chiral nanoneedles. <i>Optics Letters</i> , 2017, 42, 5022.	3.3	38
84	Inverse energy flux of focused radially polarized optical beams. <i>Physical Review A</i> , 2018, 98, .	2.5	38
85	Aberration laser beams with autofocusing properties. <i>Applied Optics</i> , 2018, 57, 1410.	1.8	38
86	Sublinearly chirped metalenses for forming abruptly autofocusing cylindrically polarized beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1963.	2.1	38
87	Vortex beams with high-order cylindrical polarization: features of focal distributions. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	2.2	38
88	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> , 2019, 27, 18484.	3.4	38
89	Spectral control of the orbital angular momentum of a laser beam based on 3D properties of spiral phase plates fabricated for an infrared wavelength. <i>Optics Express</i> , 2020, 28, 18407.	3.4	38
90	Focused, evanescent, hollow, and collimated beams formed by microaxicons with different conical angles. <i>Optics Express</i> , 2017, 25, 19052.	3.4	37

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91	Generalized parabolic nondiffracting beams of two orders. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1511.	1.5	37
92	Highly integrated plasmonic sensor design for the simultaneous detection of multiple analytes. Current Applied Physics, 2020, 20, 1274-1280.	2.4	37
93	A Numerical Investigation of a Plasmonic Sensor Based on a Metal-Insulator-Metal Waveguide for Simultaneous Detection of Biological Analytes and Ambient Temperature. Nanomaterials, 2021, 11, 2551.	4.1	37
94	Characteristics of sharp focusing of vortex Laguerre-Gaussian beams. Computer Optics, 2015, 39, 654-662.	2.2	37
95	A plasmonic colour filter and refractive index sensor applications based on metal-insulator-metal square ring cavities. Laser Physics, 2020, 30, 016205.	1.2	36
96	Spatial-Light-Modulator-Based Multichannel Data Transmission by Vortex Beams of Various Orders. Sensors, 2021, 21, 2988.	3.8	36
97	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. Computer Optics, 2013, 37, 352-359.	2.2	36
98	Design and investigation of color separation diffraction gratings. Applied Optics, 2007, 46, 2825.	2.1	35
99	On the possibility of controlling laser ablation by tightly focused femtosecond radiation. Quantum Electronics, 2014, 44, 1061-1065.	1.0	35
100	3D transformations of light fields in the focal region implemented by diffractive axicons. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	35
101	High-throughput micropatterning of plasmonic surfaces by multiplexed femtosecond laser pulses for advanced IR-sensing applications. Applied Surface Science, 2019, 484, 948-956.	6.1	35
102	Wavefront Aberration Sensor Based on a Multichannel Diffractive Optical Element. Sensors, 2020, 20, 3850.	3.8	35
103	Simple optical vortices formed by a spiral phase plate. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0,784314 reBT /Over 0,4 34	0.4	34
104	Optical Vortices in a Fiber: Mode Division Multiplexing and Multimode Self-Imaging. , 2012, , .		34
105	Metasurfaces with continuous ridges for inverse energy flux generation. Optics Express, 2019, 27, 15129.	3.4	34
106	Generating inhomogeneously polarized higher-order laser beams by use of diffractive optical elements. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 2115.	1.5	33
107	Nanoscale boiling during single-shot femtosecond laser ablation of thin gold films. JETP Letters, 2015, 101, 394-397.	1.4	33
108	Nanodots decorated asymmetric metal-insulator-metal waveguide resonator structure based on Fano resonances for refractive index sensing application. Laser Physics, 2020, 30, 076204.	1.2	33

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109	Grating-based optical scheme for the universal generation of inhomogeneously polarized laser beams. <i>Applied Optics</i> , 2010, 49, 1734.	2.1	32
110	A multichannel metallic dual nano-wall square split-ring resonator: design analysis and applications. <i>Laser Physics Letters</i> , 2019, 16, 126201.	1.4	32
111	10-million-elements-per-second printing of infrared-resonant plasmonic arrays by multiplexed laser pulses. <i>Optics Letters</i> , 2019, 44, 283.	3.3	32
112	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, 334.	4.1	32
113	Rotation of multimode Gauss-Laguerre light beams in free space. <i>Technical Physics Letters</i> , 1997, 23, 657-658.	0.7	31
114	Generation of azimuthally modulated circular superlinear Airy beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2544.	2.1	31
115	Plasmonic Nanolenses Produced by Cylindrical Vector Beam Printing for Sensing Applications. <i>Scientific Reports</i> , 2019, 9, 19750.	3.3	31
116	Iterative calculation of diffractive optical elements focusing into a three-dimensional domain and onto the surface of the body of rotation. <i>Journal of Modern Optics</i> , 1996, 43, 1509-1524.	1.3	30
117	Information transmission using optical vortices. <i>Optical Memory and Neural Networks (Information) Tj ETQq1 1 0.784314 rgBT /Over</i>	1.0	30
118	Variable transformation of singular cylindrical vector beams using anisotropic crystals. <i>Scientific Reports</i> , 2020, 10, 5590.	3.3	30
119	Shaping of spherical light intensity based on the interference of tightly focused beams with different polarizations. <i>Optics and Laser Technology</i> , 2014, 60, 99-106.	4.6	29
120	Comparative investigation of nonparaxial mode propagation along the axis of uniaxial crystal. <i>Journal of Modern Optics</i> , 2015, 62, 125-134.	1.3	29
121	Very compact focal spot in the near-field of the fractional axicon. <i>Optics Communications</i> , 2017, 391, 24-29.	2.1	29
122	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.	2.9	29
123	A highly sensitive design of subwavelength grating double-slot waveguide microring resonator. <i>Laser Physics Letters</i> , 2020, 17, 076201.	1.4	29
124	Revolution in Flexible Wearable Electronics for Temperature and Pressure Monitoring – A Review. <i>Electronics (Switzerland)</i> , 2022, 11, 716.	3.1	29
125	Refractive twisted microaxicons. <i>Optics Letters</i> , 2020, 45, 1334.	3.3	28
126	Optical Computing: Status and Perspectives. <i>Nanomaterials</i> , 2022, 12, 2171.	4.1	28

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127	Focusators into a ring. <i>Optical and Quantum Electronics</i> , 1993, 25, 801-814.	3.3	27
128	Propagation of laser vortex beams in a parabolic optical fiber. <i>Proceedings of SPIE</i> , 2009, , .	0.8	27
129	Diffractive optical elements for the formation of "light bottle" intensity distributions. <i>Applied Optics</i> , 2012, 51, 4215.	1.8	27
130	Near-field propagation of vortex beams: Models and computation algorithms. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2014, 23, 50-73.	1.0	27
131	Generation of a controlled double-ring-shaped radially polarized spiral laser beam using a combination of a binary axicon with an interference polarizer. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 055701.	2.2	27
132	State-of-the-Art Optical Devices for Biomedical Sensing Applications" A Review. <i>Electronics (Switzerland)</i> , 2021, 10, 973.	3.1	27
133	Influence of optical forces induced by paraxial vortex Gaussian beams on the formation of a microrelief on carbazole-containing azopolymer films. <i>Applied Optics</i> , 2020, 59, 9185.	1.8	27
134	Vector Lissajous laser beams. <i>Optics Letters</i> , 2020, 45, 4112.	3.3	26
135	EXPERIMENTAL STUDY OF FOCUSING OF INHOMOGENEOUSLY POLARIZED BEAMS GENERATED USING SECTOR POLARIZING PLATES. <i>Computer Optics</i> , 2014, 38, 57-64.	2.2	26
136	Hybrid metasurface perfect absorbers for temperature and biosensing applications. <i>Optical Materials</i> , 2022, 123, 111906.	3.6	26
137	Generalized apodization of an incoherent imaging system aimed for extending the depth of focus. <i>Pattern Recognition and Image Analysis</i> , 2015, 25, 626-631.	1.0	25
138	Experimental investigation of multi-order diffractive optical elements matched with two types of Zernike functions. <i>Proceedings of SPIE</i> , 2016, , .	0.8	25
139	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> , 2019, 36, 1039.	1.5	25
140	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.	1.5	25
141	Harnessing the guided-mode resonance to design nanooptical transmission spectral filters. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2010, 19, 318-324.	1.0	24
142	Analysis of the formation of a longitudinally polarized optical needle by a lens and axicon under tightly focused conditions. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2016, 83, 197.	0.4	24
143	Analysis of polarisation states at sharp focusing. <i>Optik</i> , 2016, 127, 3372-3378.	2.9	24
144	Sensitivity Enhancement of Silicon Strip Waveguide Ring Resonator by Incorporating a Thin Metal Film. <i>IEEE Sensors Journal</i> , 2020, 20, 1355-1362.	4.7	24

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145	FEATURES OF NONPARAXIAL PROPAGATION OF GAUSSIAN AND BESSEL BEAMS ALONG THE AXIS OF THE CRYSTAL. <i>Computer Optics</i> , 2013, 37, 297-306.	2.2	24
146	Calculating the complex transmission function of refractive axicons. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2012, 21, 133-144.	1.0	23
147	Study of polarization properties of fiber-optics probes with use of a binary phase plate. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014, 31, 802.	1.5	23
148	Diffraction patterns with m th order symmetry generated by sectional spiral phase plates. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 125607.	2.2	23
149	Ultrafast rotating dipole or propeller-shaped patterns: subwavelength shaping of a beam of light on a femtosecond time scale. <i>Optics Letters</i> , 2016, 41, 1605.	3.3	23
150	Caustics of Vortex Optical Beams. <i>Doklady Physics</i> , 2019, 64, 276-279.	0.7	23
151	Ultra-short lossless plasmonic power splitter design based on metal-insulator-metal waveguide. <i>Laser Physics</i> , 2020, 30, 016201.	1.2	23
152	Study of the Diffraction Grating on a Convex Surface as a Dispersive Element. <i>Computer Optics</i> , 2015, 39, 211-217.	2.2	23
153	Rotation of multimodal Gauss-Laguerre light beams in free space and in a fiber. <i>Optics and Lasers in Engineering</i> , 1998, 29, 343-350.	3.8	22
154	Rotating optical fields: experimental demonstration with diffractive optics. <i>Journal of Modern Optics</i> , 1998, 45, 2355-2369.	1.3	22
155	Experimental excitation and detection of angular harmonics in a step-index optical fiber. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2007, 16, 295-300.	1.0	22
156	A Longitudinally Polarized Beam Generated by a Binary Axicon. <i>Journal of Russian Laser Research</i> , 2015, 36, 151-161.	0.6	22
157	Generation of Hermite-Gaussian modes of high-power femtosecond laser radiation using binary-phase diffractive optical elements. <i>Quantum Electronics</i> , 2016, 46, 733-737.	1.0	22
158	Numerical analysis of a miniaturized design of a Fabry-Perot resonator based on silicon strip and slot waveguides for bio-sensing applications. <i>Journal of Modern Optics</i> , 2019, 66, 1172-1178.	1.3	22
159	Modal Characteristics of Refractive Index Engineered Hybrid Plasmonic Waveguide. <i>IEEE Sensors Journal</i> , 2020, 20, 9779-9786.	4.7	22
160	Generalized lens: calculation of distribution on the optical axis. <i>Computer Optics</i> , 2013, 37, 307-315.	2.2	22
161	Zernike phase spatial filter for measuring the aberrations of the optical structures of the eye. <i>Journal of Biomedical Photonics and Engineering</i> , 0, , 146-153.	0.7	22
162	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.	1.3	21

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163	Device performance of standard strip, slot and hybrid plasmonic $\hat{1}/4$ -ring resonator: a comparative study. <i>Waves in Random and Complex Media</i> , 2021, 31, 2397-2406.	2.7	21
164	Metalenses for the generation of vector Lissajous beams with a complex Poynting vector density. <i>Optics Express</i> , 2021, 29, 18634.	3.4	21
165	Ultrashort inverted tapered silicon ridge-to-slot waveguide coupler at 1.55 $\hat{\mu}$ m and 3.392 $\hat{\mu}$ m wavelength. <i>Applied Optics</i> , 2020, 59, 7821.	1.8	21
166	Design, fabrication and investigation of a subwavelength axicon for terahertz beam polarization transforming. <i>Computer Optics</i> , 2019, 43, .	2.2	21
167	Self-reproduction of multimode hermite-gaussian beams. <i>Technical Physics Letters</i> , 1999, 25, 489-491.	0.7	20
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