

Svetlana N Khonina

List of Publications by Year in descending order

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480
papers

10,326
citations

41344

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491
docs citations

491
times ranked

2959
citing authors

#	ARTICLE	IF	CITATIONS
1	Harnessing of inhomogeneously polarized Hermite-Gaussian vector beams to manage the 3D spin angular momentum density distribution. <i>Nanophotonics</i> , 2022, 11, 697-712.	6.0	14
2	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.	2.9	20
3	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
4	Free-Space Transmission and Detection of Various Polarized Near-IR Beams Using Standard Communication Systems with Embedded Singular Phase Structures. <i>Sensors</i> , 2022, 22, 890.	3.8	3
5	Wavelength-Tunable Vortex Beam Emitter Based on Silicon Micro-Ring with PN Depletion Diode. <i>Sensors</i> , 2022, 22, 929.	3.8	6
6	Hybrid metasurface perfect absorbers for temperature and biosensing applications. <i>Optical Materials</i> , 2022, 123, 111906.	3.6	26
7	A Miniaturized FSS-Based Eight-Element MIMO Antenna Array for Off/On-Body WBAN Telemetry Applications. <i>Electronics (Switzerland)</i> , 2022, 11, 522.	3.1	9
8	Fabrication and Investigation of Spectral Properties of a Dielectric Slab Waveguide Photonic Crystal Based Fano-Filter. <i>Crystals</i> , 2022, 12, 226.	2.2	15
9	Tailoring of Inverse Energy Flow Profiles with Vector Lissajous Beams. <i>Photonics</i> , 2022, 9, 121.	2.0	4
10	Revolution in Flexible Wearable Electronics for Temperature and Pressure Monitoring—A Review. <i>Electronics (Switzerland)</i> , 2022, 11, 716.	3.1	29
11	Adaptive Detection of Wave Aberrations Based on the Multichannel Filter. <i>Photonics</i> , 2022, 9, 204.	2.0	8
12	Analysis of the wavefront aberrations based on neural networks processing of the interferograms with a conical reference beam. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	2.2	10
13	Writing and reading with the longitudinal component of light using carbazole-containing azopolymer thin films. <i>Scientific Reports</i> , 2022, 12, 3477.	3.3	16
14	Vectorial spin Hall effect of light upon tight focusing. <i>Optics Letters</i> , 2022, 47, 2166.	3.3	18
15	Simple and Improved Plasmonic Sensor Configuration Established on MIM Waveguide for Enhanced Sensing Performance. <i>Plasmonics</i> , 2022, 17, 1305-1314.	3.4	19
16	Three-Dimensional Incoherent Imaging Using Spiral Rotating Point Spread Functions Created by Double-Helix Beams [Invited]. <i>Nanoscale Research Letters</i> , 2022, 17, 37.	5.7	19
17	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.	3.1	1
18	Advancement in Silicon Integrated Photonics Technologies for Sensing Applications in Near-Infrared and Mid-Infrared Region: A Review. <i>Photonics</i> , 2022, 9, 331.	2.0	17

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19	Numerical Study of Fabrication-Related Effects of the Structural-Profile on the Performance of a Dielectric Photonic Crystal-Based Fluid Sensor. <i>Materials</i> , 2022, 15, 3277.	2.9	8
20	Simultaneous Detection of Modal Composition and Wavelength of OAM Fields Using a Hexagonal Vortex Filter. , 2022, , .		1
21	Refractive Bi-Conic Axicon (Volcone) for Polarization Conversion of Monochromatic Radiation. <i>Photonics</i> , 2022, 9, 421.	2.0	5
22	Optical Computing: Status and Perspectives. <i>Nanomaterials</i> , 2022, 12, 2171.	4.1	28
23	Advances in Waveguide Bragg Grating Structures, Platforms, and Applications: An Up-to-Date Appraisal. <i>Biosensors</i> , 2022, 12, 497.	4.7	17
24	Polarization-Insensitive Hybrid Plasmonic Waveguide Design for Evanescent Field Absorption Gas Sensor. <i>Photonic Sensors</i> , 2021, 11, 279-290.	5.0	19
25	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
26	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
27	Carbon Dioxide Gas Sensor Based on Polyhexamethylene Biguanide Polymer Deposited on Silicon Nano-Cylinders Metasurface. <i>Sensors</i> , 2021, 21, 378.	3.8	58
28	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.	2.5	13
29	Generation of multi-contour plane curves using vortex beams. <i>Optik</i> , 2021, 229, 166299.	2.9	11
30	Generation of Complex Transverse Energy Flow Distributions with Autofocusing Optical Vortex Beams. <i>Micromachines</i> , 2021, 12, 297.	2.9	10
31	Spatial-Light-Modulator-Based Multichannel Data Transmission by Vortex Beams of Various Orders. <i>Sensors</i> , 2021, 21, 2988.	3.8	36
32	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.	2.2	17
33	State-of-the-Art Optical Devices for Biomedical Sensing Applicationsâ€™A Review. <i>Electronics (Switzerland)</i> , 2021, 10, 973.	3.1	27
34	2D-Photonic crystal heterostructures for the realization of compact photonic devices. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021, 44, 100903.	2.0	19
35	Breaking the symmetry to structure light. <i>Optics Letters</i> , 2021, 46, 2605.	3.3	10
36	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

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37	Field quantization in a waveguide with freeform cladding. , 2021, , .		1
38	Generation of Multiple Vector Optical Bottle Beams. Photonics, 2021, 8, 218.	2.0	14
39	Silicon photonic devices realized on refractive index engineered subwavelength grating waveguides-A review. Optics and Laser Technology, 2021, 138, 106863.	4.6	42
40	Modeling the propagation of sets of autofocusing laser beams. , 2021, , .		0
41	Two-step maskless fabrication of compound fork-shaped gratings in nanomultilayer structures based on chalcogenide glasses. Optics Letters, 2021, 46, 3037.	3.3	10
42	Metalenses for the generation of vector Lissajous beams with a complex Poynting vector density. Optics Express, 2021, 29, 18634.	3.4	21
43	Power Phase Apodization Study on Compensation Defocusing and Chromatic Aberration in the Imaging System. Electronics (Switzerland), 2021, 10, 1327.	3.1	8
44	Metal-Insulator-Metal Waveguide-Based Racetrack Integrated Circular Cavity for Refractive Index Sensing Application. Electronics (Switzerland), 2021, 10, 1419.	3.1	18
45	Recent Advances in Generation and Detection of Orbital Angular Momentum Optical Beamsâ€”A Review. Sensors, 2021, 21, 4988.	3.8	46
46	Formation of Inverse Energy Flux in the Case of Diffraction of Linearly Polarized Radiation by Conventional and Generalized Spiral Phase Plates. Photonics, 2021, 8, 283.	2.0	3
47	Caustics of Non-Paraxial Perfect Optical Vortices Generated by Toroidal Vortex Lenses. Photonics, 2021, 8, 259.	2.0	14
48	Autofocusing and Self-Healing Properties of Aberration Laser Beams in a Turbulent Media. Physical Review Applied, 2021, 16, .	3.8	16
49	Study of Superoscillating Functions Application to Overcome the Diffraction Limit with Suppressed Sidelobes. Optics, 2021, 2, 155-168.	1.2	0
50	2D-Heterostructure Photonic Crystal Formation for On-Chip Polarization Division Multiplexing. Photonics, 2021, 8, 313.	2.0	5
51	Enlightening Aragoâ€™Poisson spot using structured light. Applied Optics, 2021, 60, 7432.	1.8	1
52	Mirror and Circular Symmetry of Autofocusing Beams. Symmetry, 2021, 13, 1794.	2.2	7
53	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
54	Robust multifilament arrays in air by Dammann grating. Optics Express, 2021, 29, 34189-34204.	3.4	16

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55	Recent advances in photonic crystal optical devices: A review. Optics and Laser Technology, 2021, 142, 107265.	4.6	78
56	Plasmonics: A Necessity in the Field of Sensing-A Review (Invited). Fiber and Integrated Optics, 2021, 40, 14-47.	2.5	52
57	Control of the intensity distribution along the light spiral generated by a generalized spiral phase plate. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 420.	2.1	16
58	Spiral Caustics of Vortex Beams. Photonics, 2021, 8, 24.	2.0	15
59	Robust Demultiplexing of Distinct Orbital Angular Momentum Infrared Vortex Beams Into Different Spatial Geometry Over a Broad Spectral Range. IEEE Access, 2021, 9, 143341-143348.	4.2	3
60	Optical detection of values of separate aberrations using a multi-channel filter matched with phase Zernike functions. Computer Optics, 2021, 45, .	2.2	6
61	Modern Types of Axicons: New Functions and Applications. Sensors, 2021, 21, 6690.	3.8	52
62	Propagation Invariant Features of Aberration Laser Beams in a Turbulent Media. , 2021, , .		0
63	Breaking the symmetry to structure light. , 2021, , .		2
64	Modeling the propagation of autofocusing beams in a linear and nonlinear optical medium. , 2021, , .		0
65	Optically formed Hermite-Gaussian mode classification via convolutional neural network. , 2021, , .		0
66	Cycle degree: another characteristic of the vortex phase distribution. , 2021, , .		0
67	Single- and Double-Beam Optical Formation of Relief-Phase Diffraction Microstructures in Carbazole-Containing Azopolymer Films. Optics and Spectroscopy (English Translation of Optika i Tj ETQq1 1 0.784314 rgB7 /Overlo	4.5	14
68	Vectorial beam generation with a conical refractive surface. Computer Optics, 2021, 45, .	2.2	1
69	Neural networks application to determine the types and magnitude of aberrations from the pattern of the point spread function out of the focal plane. Journal of Physics: Conference Series, 2021, 2086, 012148.	0.4	8
70	Highly sensitive refractive index sensor based on hybrid plasmonic waveguide microring resonator. Waves in Random and Complex Media, 2020, 30, 292-299.	2.7	48
71	An array of nano-dots loaded MIM square ring resonator with enhanced sensitivity at NIR wavelength range. Optik, 2020, 202, 163655.	2.9	48
72	Sensitivity Enhancement of Silicon Strip Waveguide Ring Resonator by Incorporating a Thin Metal Film. IEEE Sensors Journal, 2020, 20, 1355-1362.	4.7	24

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73	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
74	The superposition of the Bessel and mirrored Bessel beams and investigation of their self-healing characteristic. <i>Optik</i> , 2020, 208, 164057.	2.9	17
75	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	36
76	Hybrid plasmonic waveguide race-track μ -ring resonator: Analysis of dielectric and hybrid mode for refractive index sensing applications. <i>Laser Physics</i> , 2020, 30, 016202.	1.2	8
77	Ultra-short lossless plasmonic power splitter design based on metal-insulator-metal waveguide. <i>Laser Physics</i> , 2020, 30, 016201.	1.2	23
78	Highly integrated plasmonic sensor design for the simultaneous detection of multiple analytes. <i>Current Applied Physics</i> , 2020, 20, 1274-1280.	2.4	37
79	Diffractive optical elements for multiplexing structured laser beams. <i>Quantum Electronics</i> , 2020, 50, 629-635.	1.0	50
80	Bessel Beam: Significance and Applications – A Progressive Review. <i>Micromachines</i> , 2020, 11, 997.	2.9	101
81	Wavefront Aberration Sensor Based on a Multichannel Diffractive Optical Element. <i>Sensors</i> , 2020, 20, 3850.	3.8	35
82	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
83	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
84	Modal Characteristics of Refractive Index Engineered Hybrid Plasmonic Waveguide. <i>IEEE Sensors Journal</i> , 2020, 20, 9779-9786.	4.7	22
85	Subwavelength gratings for creation and focusing of cylindrical vector beams. <i>Journal of Physics: Conference Series</i> , 2020, 1461, 012026.	0.4	0
86	Highly Sensitive Refractive Index Sensor Based on Plasmonic Bow Tie Configuration. <i>Photonic Sensors</i> , 2020, 10, 223-232.	5.0	51
87	A highly sensitive design of subwavelength grating double-slot waveguide microring resonator. <i>Laser Physics Letters</i> , 2020, 17, 076201.	1.4	29
88	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	33
89	Variable transformation of singular cylindrical vector beams using anisotropic crystals. <i>Scientific Reports</i> , 2020, 10, 5590.	3.3	30
90	Subwavelength Grating Double Slot Waveguide Racetrack Ring Resonator for Refractive Index Sensing Application. <i>Sensors</i> , 2020, 20, 3416.	3.8	47

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91	Generating autofocused aberration laser beams with different spectral performance. Journal of Optics (United Kingdom), 2020, 22, 045606.	2.2	11
92	Properties of vortex light fields generated by generalized spiral phase plates. Physical Review A, 2020, 101, .	2.5	44
93	Evaluating the influence of the refractive index dispersion of a harmonic lens on focusing properties. , 2020, , .		2
94	Application of a neural network for calculating the surface relief of a different level two-zone lens with an increased depth of field. , 2020, , .		10
95	Ultrashort inverted tapered silicon ridge-to-slot waveguide coupler at 1.55 μm and 3.392 μm wavelength. Applied Optics, 2020, 59, 7821.	1.8	21
96	Influence of optical forces induced by paraxial vortex Gaussian beams on the formation of a microrelief on carbazole-containing azopolymer films. Applied Optics, 2020, 59, 9185.	1.8	27
97	Caustics of the vortex beams generated by vortex lenses and vortex axicons. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 476.	1.5	25
98	Application of a binary curved fork grating for the generation and detection of optical vortices outside the focal plane. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1714.	2.1	16
99	Spectral control of the orbital angular momentum of a laser beam based on 3D properties of spiral phase plates fabricated for an infrared wavelength. Optics Express, 2020, 28, 18407.	3.4	38
100	Sector sandwich structure: an easy-to-manufacture way towards complex vector beam generation. Optics Express, 2020, 28, 27628.	3.4	11
101	Refractive twisted microaxicons. Optics Letters, 2020, 45, 1334.	3.3	28
102	Silicon microprotrusions with tailored chirality enabled by direct femtosecond laser ablation. Optics Letters, 2020, 45, 3050.	3.3	12
103	Vector Lissajous laser beams. Optics Letters, 2020, 45, 4112.	3.3	26
104	Energy deposition parameters revealed in the transition from 3D to 1D femtosecond laser ablation of fluorite at high-NA focusing. Optical Materials Express, 2020, 10, 3291.	3.0	12
105	Ultrafast spinning twisted ribbons of confined electric fields. Optica, 2020, 7, 1228.	9.3	16
106	Achievements in the development of plasmonic waveguide sensors for measuring the refractive index. Computer Optics, 2020, 44, .	2.2	39
107	High-speed format 1000BASE-SX / LX transmission through the atmosphere by vortex beams near IR range with help modified SFP-transmers DEM-310GT. Computer Optics, 2020, 44, .	2.2	20
108	Properties of off-axis caustics of autofocusing chirp beams. Computer Optics, 2020, 44, .	2.2	9

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109	Recognition of wavefront aberrations types corresponding to single Zernike functions from the pattern of the point spread function in the focal plane using neural networks. <i>Computer Optics</i> , 2020, 44, .	2.2	20
110	A method of generating a random optical field using the Karhunen-Loeve expansion to simulate atmospheric turbulence. <i>Computer Optics</i> , 2020, 44, .	2.2	4
111	Experimental investigation of nonlinear spiral phase plates. , 2020, , .		0
112	Formation of microstructures in an azopolymer using paraxial vortex Gaussian beams. , 2020, , .		0
113	Forming of periodic three-dimensional intensity distributions based on superposition of spherical harmonics. , 2020, , .		2
114	Generation of scalable wavefront for testing optical systems. , 2020, , .		4
115	Optical Beams: Polarization Conversion of Focused Vortex Beams. , 2020, , 341-382.		0
116	Algorithm for reconstructing complex coefficients of Laguerreâ€“Gaussian modes from the intensity distribution of their coherent superposition. <i>Computer Optics</i> , 2020, 44, .	2.2	8
117	Femtosecond multifilament arrays in air using diffraction optical elements. , 2020, , .		0
118	Structural and Polarization Transformations of Laser Beams in Anisotropic Crystals. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2020, 56, 170-175.	0.6	0
119	Increasing Depth of Field of Tilted Diffractive Lens in Image Classification Task. , 2020, , .		1
120	Robust multifilament arrays using Dammann phase grating. , 2020, , .		0
121	Diffractive optics technologies for the control of high-power terahertz laser beams. , 2020, , .		0
122	Symmetric nanostructuring and plasmonic excitation of gold nanostructures by femtosecond Laguerre â€“ Gaussian laser beams. <i>Quantum Electronics</i> , 2019, 49, 666-671.	1.0	9
123	Efficient generation of arrays of closed-packed high-quality light rings. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2019, 37, 100736.	2.0	7
124	Local characteristics of paraxial Laguerreâ€“Gaussian vortex beams with a zero total angular momentum. <i>Journal of Modern Optics</i> , 2019, 66, 1961-1972.	1.3	11
125	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
126	Caustics of Vortex Optical Beams. <i>Doklady Physics</i> , 2019, 64, 276-279.	0.7	23

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127	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	7
128	Fractional two-parameter parabolic diffraction-free beams. <i>Optics Communications</i> , 2019, 450, 103-111.	2.1	14
129	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> , 2019, 383, 2535-2541.	2.1	6
130	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
131	Plasmon excitation of gold split-ring array: spectral studies and numerical simulation. <i>Laser Physics Letters</i> , 2019, 16, 066007.	1.4	2
132	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
133	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
134	A T-shaped balanced optical power splitter based on 90° bend asymmetric vertical slot waveguides. <i>Laser Physics</i> , 2019, 29, 046207.	1.2	14
135	A serially cascaded micro-ring resonator for simultaneous detection of multiple analytes. <i>Laser Physics</i> , 2019, 29, 046208.	1.2	15
136	High-throughput micropatterning of plasmonic surfaces by multiplexed femtosecond laser pulses for advanced IR-sensing applications. <i>Applied Surface Science</i> , 2019, 484, 948-956.	6.1	35
137	Subwavelength Diffraction Grating with Continuous Ridges for Inverse Energy Flux Generation. , 2019, , .		1
138	Formation of microstructures on the surface of a carbazole-containing azopolymer by the action of laser beams. <i>Journal of Physics: Conference Series</i> , 2019, 1368, 022069.	0.4	3
139	Plasmonic Nanolenses Produced by Cylindrical Vector Beam Printing for Sensing Applications. <i>Scientific Reports</i> , 2019, 9, 19750.	3.3	31
140	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
141	Metalens for creation of the longitudinally polarized photonic needle. <i>Journal of Physics: Conference Series</i> , 2019, 1368, 022008.	0.4	1
142	Chirality of laser-printed plasmonic nanoneedles tunable by tailoring spiral-shape pulses. <i>Applied Surface Science</i> , 2019, 470, 526-534.	6.1	57
143	Cadmium telluride thin-film response for a laser beam illumination. <i>Journal of Optics (India)</i> , 2019, 48, 81-86.	1.7	0
144	Diffraction catastrophes and asymptotic analysis of caustics from axisymmetric optical elements. , 2019, , .		9

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145	Binary multi-order diffraction optical elements with variable fill factor for the formation and detection of optical vortices of arbitrary order. <i>Applied Optics</i> , 2019, 58, 8227.	1.8	19
146	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
147	Generation of an optical ball bearing facilitated by coupling between handedness of polarization of light and helicity of its phase. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2087.	2.1	9
148	Astigmatic transformation of optical vortex beams with high-order cylindrical polarization. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 2193.	2.1	12
149	Metasurfaces with continuous ridges for inverse energy flux generation. <i>Optics Express</i> , 2019, 27, 15129.	3.4	34
150	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
151	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
152	Symmetry-wise nanopatterning and plasmonic excitation of ring-like gold nanoholes by structured femtosecond laser pulses with different polarizations. <i>Optics Letters</i> , 2019, 44, 1129.	3.3	8
153	Increased reverse energy flux area when focusing a linearly polarized annular beam with binary plates. <i>Optics Letters</i> , 2019, 44, 2008.	3.3	15
154	Catastrophe theory and caustics of radially symmetric beams. <i>Computer Optics</i> , 2019, 43, .	2.2	8
155	Formation of required distributions on the basis of decomposition by vortex eigen functions of a bounded non-paraxial propagation operator. <i>Computer Optics</i> , 2019, 43, .	2.2	6
156	Investigation of the topological charge stability for multi-ringed Laguerreâ€“Gauss vortex beams to random distortions. <i>Computer Optics</i> , 2019, 43, .	2.2	8
157	Design, fabrication and investigation of a subwavelength axicon for terahertz beam polarization transforming. <i>Computer Optics</i> , 2019, 43, .	2.2	21
158	Analysis of the amplitude on optical axis at the incidence of the conical wave on an astigmatic lens. , 2019, , .		0
159	A technique for simultaneous detection of individual vortex states of Laguerreâ€“Gaussian beams transmitted through an aqueous suspension of microparticles. <i>Optics and Lasers in Engineering</i> , 2018, 105, 68-74.	3.8	61
160	Hybrid plasmonic waveguide-assisted Metalâ€“Insulatorâ€“Metal ring resonator for refractive index sensing. <i>Journal of Modern Optics</i> , 2018, 65, 1135-1140.	1.3	79
161	Sudden autofocusing of superlinear chirp beams. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 025605.	2.2	43
162	Modelling of Rib channel waveguides based on silicon-on-sapphire at 4.67×10^{-4} m wavelength for evanescent field gas absorption sensor. <i>Optik</i> , 2018, 168, 692-697.	2.9	29

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163	Birefringence detection of a gradient-index lens based on astigmatic transformation of a Bessel beam. <i>Optik</i> , 2018, 164, 679-685.	2.9	16
164	Polarization-selective Excitation of Dye Luminescence on a Gold Film by Structured Ultrashort Laser Pulses. <i>JETP Letters</i> , 2018, 107, 15-18.	1.4	14
165	Formation of signals matched with vortex eigenfunctions of bounded double lens system. <i>Optics Communications</i> , 2018, 410, 153-159.	2.1	11
166	Silicon on silicon dioxide slot waveguide evanescent field gas absorption sensor. <i>Journal of Modern Optics</i> , 2018, 65, 174-178.	1.3	65
167	Light confinement in a 90° double high mesa slot bend waveguide. <i>Journal of Physics: Conference Series</i> , 2018, 1096, 012126.	0.4	2
168	Apodization for improving the two-point resolution of coherent optical systems with defect of focus. <i>Applied Physics B: Lasers and Optics</i> , 2018, 124, 1.	2.2	18
169	Plasmonic refractive index sensor based on M-I-M square ring resonator. , 2018, , .		14
170	Au-SiO ₂ -Si hybrid plasmonic waveguide micro-ring resonator sensor. <i>Journal of Physics: Conference Series</i> , 2018, 1124, 051001.	0.4	5
171	Compact design of a polarization beam splitter based on silicon-on-insulator platform. <i>Laser Physics</i> , 2018, 28, 116202.	1.2	16
172	Formation of hybrid higher-order cylindrical vector beams using binary multi-sector phase plates. <i>Scientific Reports</i> , 2018, 8, 14320.	3.3	42
173	Inverse energy flux of focused radially polarized optical beams. <i>Physical Review A</i> , 2018, 98, .	2.5	38
174	Comparative study of impact of random environment on individual and combined Laguerre-Gauss modes. <i>Journal of Physics: Conference Series</i> , 2018, 1038, 012070.	0.4	1
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