

Terabit free-space data transmission employing orbital

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Citation Report

#	ARTICLE	IF	CITATIONS
17	Control of optical orbital angular momentum by Vogel spiral arrays of metallic nanoparticles. <i>Optics Letters</i> , 2012, 37, 5076.	1.7	33
18	Encoding and decoding of orbital angular momentum for wireless optical interconnects on chip. <i>Optics Express</i> , 2012, 20, 26986.	1.7	62
19	Instability of higher-order optical vortices analyzed with a multi-pinhole interferometer. <i>Optics Express</i> , 2012, 20, 22961.	1.7	83
20	Efficient generation and multiplexing of optical orbital angular momentum modes in a ring fiber by using multiple coherent inputs. <i>Optics Letters</i> , 2012, 37, 3645.	1.7	58
21	Near-perfect sorting of orbital angular momentum and angular position states of light. <i>Optics Express</i> , 2012, 20, 24444.	1.7	98
22	Ultra-compact photonic crystal waveguide spatial mode converter and its connection to the optical diode effect. <i>Optics Express</i> , 2012, 20, 28388.	1.7	156
23	2â€‰Tbit/s free-space data transmission on two orthogonal orbital-angular-momentum beams each carrying 25 WDM channels. <i>Optics Letters</i> , 2012, 37, 4753.	1.7	34
24	Photon orbital angular momentum: generation, measurement and application to QKD. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
25	Holographic detection of the orbital angular momentum of light with plasmonic photodiodes. <i>Nature Communications</i> , 2012, 3, 1278.	5.8	252
26	Measurement of the orbital-angular-momentum spectrum of fields with partial angular coherence using double-angular-slit interference. <i>Physical Review A</i> , 2012, 86, .	1.0	22
27	Measuring the orbital angular momentum of partially coherent optical vortices through singularities in their cross-spectral density functions. <i>Optics Letters</i> , 2012, 37, 4949.	1.7	56
28	Structured Light Meets Structured Matter. <i>Science</i> , 2012, 337, 1054-1055.	6.0	176
29	On-chip transformation optics for multimode waveguide bends. <i>Nature Communications</i> , 2012, 3, 1217.	5.8	232
30	Light propagation in an optically active plate with topological charge. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	7
31	Multiplexing twisted light. <i>Nature Photonics</i> , 2012, 6, 420-422.	15.6	30
32	A Different Angle on Light Communications. <i>Science</i> , 2012, 337, 655-656.	6.0	126
33	Two become one. <i>Nature Photonics</i> , 2013, 7, 512-513.	15.6	1
34	First Observation of Photons Carrying Orbital Angular Momentum in Undulator Radiation. <i>Physical Review Letters</i> , 2013, 111, 034801.	2.9	134

#	ARTICLE	IF	CITATIONS
35	Harnessing Optical Vortex Lattices in Nematic Liquid Crystals. <i>Physical Review Letters</i> , 2013, 111, 093902.	2.9	103
36	Coherent optical vortices from relativistic electron beams. <i>Nature Physics</i> , 2013, 9, 549-553.	6.5	118
37	Multimode Communications Using Orbital Angular Momentum. , 2013, , 569-615.		15
38	Spin-Enabled Plasmonic Metasurfaces for Manipulating Orbital Angular Momentum of Light. <i>Nano Letters</i> , 2013, 13, 4148-4151.	4.5	252
39	A quantum multiple access communications scheme using orbital angular momentum. <i>Journal of Electronics</i> , 2013, 30, 145-151.	0.2	0
40	Mode-division multiplexing in fibre-optic communications based on orbital angular momentum. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 075403.	1.0	37
41	Optical Vortex Generation from Molecular Chromophore Arrays. <i>Physical Review Letters</i> , 2013, 111, 153603.	2.9	41
42	Topological Shaping of Light by Closed-Path Nanoslits. <i>Physical Review Letters</i> , 2013, 111, 193901.	2.9	63
43	Do Waves Carrying Orbital Angular Momentum Possess Azimuthal Linear Momentum?. <i>Physical Review Letters</i> , 2013, 111, 103602.	2.9	17
44	Efficient separation of the orbital angular momentum eigenstates of light. <i>Nature Communications</i> , 2013, 4, 2781.	5.8	364
45	Terabit-Scale Orbital Angular Momentum Mode Division Multiplexing in Fibers. <i>Science</i> , 2013, 340, 1545-1548.	6.0	2,330
46	Stability of higher order optical vortices produced by spatial light modulators. <i>Journal of Modern Optics</i> , 2013, 60, 1696-1700.	0.6	14
47	Characterizing the phase profile of a vortex beam with angular-double-slit interference. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 125712.	1.0	24
48	Propagation of orbital angular momentum carrying beams through a perturbing medium. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 105706.	1.0	13
49	Compact bends for multi-mode photonic crystal waveguides with high transmission and suppressed modal crosstalk. <i>Optics Express</i> , 2013, 21, 8069.	1.7	26
50	Photonic polarization gears for ultra-sensitive angular measurements. <i>Nature Communications</i> , 2013, 4, 2432.	5.8	257
51	Analysis of aperture size for partially receiving and de-multiplexing 100-Gbit/s optical orbital angular momentum channels over free-space link. , 2013, , .		1
52	Generating in-Plane Optical Orbital Angular Momentum Beams With Silicon Waveguides. <i>IEEE Photonics Journal</i> , 2013, 5, 2201206-2201206.	1.0	27

#	ARTICLE	IF	CITATIONS
53	A multi-ring multi-OAM-mode fiber for high-density space-division multiplexing (7 rings × 22) Tj ETQq0 0 0 rgBT /Overlock 10 Tf		
54	Optical orbital angular momentum conservation during the transfer process from plasmonic vortex lens to light. Scientific Reports, 2013, 3, 3191.	1.6	18
55	Twisted light from an electron beam. Nature Physics, 2013, 9, 531-532.	6.5	1
56	On the restriction of utilizing orbital angular momentum in radio communications. , 2013, , .		7
57	Efficient measurement of an optical orbital-angular-momentum spectrum comprising more than 50 states. New Journal of Physics, 2013, 15, 013024.	1.2	80
58	Beam Steering, Beam Shaping, and Intensity Modulation Based on VCSEL Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 1701510-1701510.	1.9	25
59	Rapid generation of light beams carrying orbital angular momentum. Optics Express, 2013, 21, 30196.	1.7	200
60	Integrated photonic orbital angular momentum devices and systems: Potentials and challenges. Science China Technological Sciences, 2013, 56, 579-585.	2.0	3
61	A high-efficiency and accuracy holographic tandem method for arbitrary beam shaping. Optics Communications, 2013, 294, 96-104.	1.0	6
62	Space-division multiplexing in optical fibres. Nature Photonics, 2013, 7, 354-362.	15.6	2,606
63	Highly efficient generation of vector beams through polarization holograms. Applied Physics Letters, 2013, 102, .	1.5	31
64	Phase-conjugated twin waves for communication beyond the Kerr nonlinearity limit. Nature Photonics, 2013, 7, 560-568.	15.6	371
65	Supersymmetric Optical Structures. Physical Review Letters, 2013, 110, 233902.	2.9	154
66	Light in a twist: optical angular momentum. , 2013, , .		5
67	Terahertz Metamaterials for Linear Polarization Conversion and Anomalous Refraction. Science, 2013, 340, 1304-1307.	6.0	1,678
68	Beating the Rayleigh limit: Orbital-angular-momentum-based super-resolution diffraction tomography. Physical Review E, 2013, 88, 033205.	0.8	80
69	Generating, multiplexing/demultiplexing and receiving the orbital angular momentum of radio frequency signals using an optical true time delay unit. Journal of Optics (United Kingdom), 2013, 15, 105401.	1.0	26
70	Orbital angular momentum division multiplexing in optical fibre. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
71	Multi-Orbital-Angular-Momentum Multi-Ring Fiber for High-Density Space-Division Multiplexing. IEEE Photonics Journal, 2013, 5, 7101007-7101007.	1.0	89
72	Quantum Few-Mode Fiber Communications Based on the Orbital Angular Momentum. IEEE Photonics Technology Letters, 2013, 25, 3-6.	1.3	9
73	Attosecond Extreme Ultraviolet Vortices from High-Order Harmonic Generation. Physical Review Letters, 2013, 111, 083602.	2.9	174
74	Precision orbital angular momentum (OAM) multiplexing communication using a metasurface. , 2013, , .		6
75	Composite vortices in nonlinear circular waveguide arrays. Journal of Optics (United Kingdom), 2013, 15, 044016.	1.0	16
76	Performance analysis of spectrally efficient free-space data link using spatially multiplexed orbital angular momentum beams. Proceedings of SPIE, 2013, , .	0.8	2
77	Stable Transmission of 12 OAM States in Air-Core Fiber. , 2013, , .		48
78	100 Tbit/s Free-Space Data Link using Orbital Angular Momentum Mode Division Multiplexing Combined with Wavelength Division Multiplexing. , 2013, , .		22
79	Liquid-crystal-on-silicon-based optical add/drop multiplexer for orbital-angular-momentum-multiplexed optical links. Optics Letters, 2013, 38, 5142.	1.7	21
80	Multicasting in a spatial division multiplexing system based on optical orbital angular momentum. Optics Letters, 2013, 38, 3930.	1.7	60
81	Partially coherent stable and spiral beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2013, 30, 2237.	0.8	25
82	Generation and propagation of an anomalous vortex beam. Optics Letters, 2013, 38, 5418.	1.7	91
83	Twisted light in a nonlinear mirror. Optics Letters, 2013, 38, 4288.	1.7	9
84	Conversion of orbital angular momentum of light in chiral fiber gratings. Optics Letters, 2013, 38, 1978.	1.7	104
85	Scintillation of nonuniformly correlated beams in atmospheric turbulence. Optics Letters, 2013, 38, 1395.	1.7	114
86	Transmission of multi-polarization-multiplexed signals: another freedom to explore?. Optics Express, 2013, 21, 11590.	1.7	18
87	Optical coherenscopy based on phase-space tomography. Optics Express, 2013, 21, 13169.	1.7	17
88	Twisting light with hyperbolic metamaterials. Optics Express, 2013, 21, 14975.	1.7	29

#	ARTICLE	IF	CITATIONS
89	Digital coherent receiver for orbital angular momentum demultiplexing. Optics Letters, 2013, 38, 241.	1.7	13
90	Azimuthal and radial shaping of vortex beams generated in twisted nonlinear photonic crystals. Optics Letters, 2013, 38, 5470.	1.7	69
91	Phase-shift interference-based wavefront characterization for orbital angular momentum modes. Optics Letters, 2013, 38, 2348.	1.7	48
92	Analog nonlinear MIMO receiver for optical mode division multiplexing transmission. Optics Express, 2013, 21, 25174.	1.7	5
93	Reconfigurable switching of orbital-angular-momentum-based free-space data channels. Optics Letters, 2013, 38, 5118.	1.7	29
94	Reconfigurable orbital angular momentum and polarization manipulation of 100 Gbit/s QPSK data channels. Optics Letters, 2013, 38, 5240.	1.7	13
95	Quantum key distribution session with 16-dimensional photonic states. Scientific Reports, 2013, 3, 2316.	1.6	101
96	High fidelity detection of the orbital angular momentum of light by time mapping. New Journal of Physics, 2013, 15, 113062.	1.2	23
97	Sidelobe-modulated optical vortices for free-space communication. Optics Letters, 2013, 38, 588.	1.7	44
98	Expanded horizons for generating and exploring optical angular momentum in vortex structures. Proceedings of SPIE, 2013, , .	0.8	9
99	Optical vortices: an innovative approach to increase spectral efficiency by fiber mode-division multiplexing. Proceedings of SPIE, 2013, , .	0.8	8
100	Optical vortices in fiber. Nanophotonics, 2013, 2, 455-474.	2.9	354
101	Measurement of the orbital angular momentum density of light by modal decomposition. New Journal of Physics, 2013, 15, 073025.	1.2	105
102	The influence of the vortex phase on the random wandering of a Laguerre-Gaussian beam propagating in a turbulent atmosphere: a numerical experiment. Journal of Optics (United Kingdom), 2013, 15, 044007.	1.0	34
103	Observation of Discrete, Vortex Light Bullets. Physical Review X, 2013, 3, .	2.8	34
104	Nonlinear frequency conversion of fields with orbital angular momentum using quasi-phase-matching. Physical Review A, 2013, 88, .	1.0	51
105	Cancellation of atmospheric turbulence effects in entangled two-photon beams. Physical Review A, 2013, 88, .	1.0	24
106	SUSY fibers for integrated optical angular momentum multiplexing. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
107	Asymmetric diffraction orders based on axicon and helical phase combination. , 2013, , .		1
108	Orbital angular momentum from marginals of quadrature distributions. Physical Review A, 2013, 88, .	1.0	5
109	Self-Induced Mode Transformation in Nonlocal Nonlinear Media. Physical Review Letters, 2013, 111, 123902.	2.9	51
110	Free-space optical polarization demultiplexing and multiplexing by means of conical refraction. , 2013, , .		2
111	Integrated emitters of cylindrically structured light beams. , 2013, , .		0
112	Chiral nanoemitter array: A launchpad for optical vortices. Laser and Photonics Reviews, 2013, 7, 1088-1092.	4.4	26
113	Vector vortex beam emission from organic semiconductor microlasers. Applied Physics Letters, 2013, 103, .	1.5	8
114	Spin-orbit-interaction-induced generation of optical vortices in multihelicoidal fibers. Physical Review A, 2013, 88, .	1.0	70
115	Metamaterials-based broadband generation of orbital angular momentum carrying vector beams. Optics Letters, 2013, 38, 932.	1.7	175
116	Orbital angular momentum control by a multihelicoidal fibre with a twist defect. Journal of Optics (United Kingdom), 2013, 15, 125401.	1.0	3
117	A heuristic approach to the realization of the wide-band optical diode effect in photonic crystal waveguides. Journal of Optics (United Kingdom), 2013, 15, 075501.	1.0	21
118	Generating squeezed vacuum field with nonzero orbital angular momentum with atomic ensembles. Optics Letters, 2013, 38, 4833.	1.7	7
119	Spatial Terahertz Modulator. Scientific Reports, 2013, 3, .	1.6	116
120	Reconfigurable orbital-angular-momentum manipulation and switching of polarization-multiplexed 100-Gbit/s QPSK data channels. , 2013, , .		0
121	Tunable supercontinuum light vector vortex beam generator using a q-plate. Optics Letters, 2013, 38, 5083.	1.7	88
122	Atmospheric turbulence effects on the performance of a free space optical link employing orbital angular momentum multiplexing. Optics Letters, 2013, 38, 4062.	1.7	233
123	Selective Broadband Generation of Orbital Angular Momentum Carrying Vector Beams Using Metamaterials. , 2013, , .		2
124	Novel fiber-optic geometries for fast quantum communication. Proceedings of SPIE, 2013, , .	0.8	1

#	ARTICLE	IF	CITATIONS
125	The measurement and generation of orbital angular momentum using an optical geometric transformation. , 2013, , .		5
126	Front Matter: Volume 8633. Proceedings of SPIE, 2013, , .	0.8	0
127	Tailored modal gain in a multi-mode erbium-doped fiber amplifier based on engineered ring doping profiles. Proceedings of SPIE, 2013, , .	0.8	20
128	Generation of OAM Radio Waves Using Circular Vivaldi Antenna Array. International Journal of Antennas and Propagation, 2013, 2013, 1-7.	0.7	59
129	Optical Signal Processing: Data Exchange. , 2013, , .		1
130	Supersymmetric optics: SUSY fibers for integrated angular momentum multiplexing. , 2013, , .		0
131	2x20 Gbps - 40 GHz OFDM Ro-FSO transmission with mode division multiplexing. Journal of the European Optical Society-Rapid Publications, 0, 9, .	0.9	40
132	Spin annihilations of and spin sifters for transverse electric and transverse magnetic waves in co- and counter-rotations. Beilstein Journal of Nanotechnology, 2014, 5, 1887-1898.	1.5	4
133	Gummy Smile Correction: Case Report. Journal of Lasers, Optics & Photonics, 2014, 01, .	0.1	2
134	Soliton Aided Propagation and Routing of Vortex Beams in Nonlocal Media. Journal of Lasers, Optics & Photonics, 2014, 01, .	0.1	8
135	Orbital angular momentum light frequency conversion and interference with quasi-phase matching crystals. Optics Express, 2014, 22, 20298.	1.7	62
136	Coherent, focus-corrected imaging of optical fiber facets using a single-pixel detector. Optics Letters, 2014, 39, 6034.	1.7	6
137	Design, fabrication and validation of an OAM fiber supporting 36 states. Optics Express, 2014, 22, 26117.	1.7	338
138	Nonparaxial propagation of elliptical Gaussian vortex beams in uniaxial crystal orthogonal to the optical axis. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2014, 31, 2268.	0.8	23
139	Experiment Turbulence Compensation of 50-Gbaud/s Orbital-Angular-Momentum QPSK Signals Using Intensity-only based SPGD Algorithm. , 2014, , .		0
140	Independent and combined information transfer from axicon and helical phase distributions. Applied Optics, 2014, 53, 4691.	0.9	6
141	Experimental demonstration of 16 Gbit/s millimeter-wave communications using MIMO processing of 2 OAM modes on each of two transmitter/receiver antenna apertures. , 2014, , .		17
142	Transmission and demodulation of multi-polarization-multiplexed signals. Science Bulletin, 2014, 59, 3943-3948.	1.7	0

#	ARTICLE	IF	CITATIONS
143	Generation of vortex beam using Bragg reflector waveguide. Applied Physics Express, 2014, 7, 022502.	1.1	21
144	Light's twist. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140633.	1.0	38
145	100-Tbit/s free-space data link enabled by three-dimensional multiplexing of orbital angular momentum, polarization, and wavelength. Optics Letters, 2014, 39, 197.	1.7	443
146	Generating and identifying optical orbital angular momentum with silicon photonic circuits. Optics Letters, 2014, 39, 5977.	1.7	36
147	Generation of Optical Vortices by an Ideal Liquid Crystal Spiral Phase Plate. IEEE Electron Device Letters, 2014, 35, 856-858.	2.2	30
148	GENERATION OF OPTICAL VORTEX BEAMS BY COMPACT STRUCTURES. Journal of Molecular and Engineering Materials, 2014, 02, 1440013.	0.9	15
149	Experimental demonstration of obstruction-tolerant free-space transmission of two 50-Gbaud QPSK data channels using Bessel beams carrying orbital angular momentum. , 2014, , .		6
150	Space division multiplexing in a basis of vector modes. , 2014, , .		6
151	Coherent Multimode OAM Superpositions for Multidimensional Modulation. IEEE Photonics Journal, 2014, 6, 1-11.	1.0	77
152	Representation and Evolution of the Angular Momentum of the Light. IEEE Photonics Journal, 2014, 6, 1-9.	1.0	4
153	Fast switchable optical vortex generator based on blue phase liquid crystal fork grating. Optical Materials Express, 2014, 4, 2535.	1.6	31
154	The Role and Challenges of Free-space Optical Systems. Journal of Optical Communications, 2014, 35, .	4.0	79
155	Fractional Orbital Angular Momentum (OAM) Free-Space Optical Communications with Atmospheric Turbulence Assisted by MIMO Equalization. , 2014, , .		11
156	Experimental circular phased array for generating OAM radio beams. Electronics Letters, 2014, 50, 1414-1415.	0.5	282
157	Limitations to the determination of a Laguerre-Gauss spectrum via projective, phase-flattening measurement. Journal of the Optical Society of America B: Optical Physics, 2014, 31, A20.	0.9	82
158	A dual-channel wireless communication system by multiplexing twisted radio wave. , 2014, , .		7
159	Bandwidth analysis of the principal states superimposed from vortex modes propagating in an optical fiber. , 2014, , .		1
160	10-Tbit/s super-Nyquist-filtered signal transmission over 3000-km fiber and 10 cascaded ROADMs with 100-GHz grid based on single-carrier ETDM 110-Gbaud QPSK. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
161	Performance metrics and design parameters for an FSO communications link based on multiplexing of multiple orbital-angular-momentum beams. , 2014, , .		6
162	A study on the near field OAM using the rigorous numerical methods. , 2014, , .		0
163	Multiple orbital angular momentum (OAM) modes (De) multiplexer based on single complex phase mask. , 2014, , .		5
164	Large-Scale Silicon Photonic Circuits for Optical Phased Arrays. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 264-278.	1.9	81
165	Design of an Optical Fiber Supporting 16 OAM Modes. , 2014, , .		12
166	An orbital angular momentum radio communication system optimized by intensity controlled masks effectively: Theoretical design and experimental verification. Applied Physics Letters, 2014, 105, .	1.5	40
167	Experimental Demonstration of Basic Functionalities for 0.1-THz Orbital Angular Momentum (OAM) Communications. , 2014, , .		30
168	Review of Spectrally Efficient Optical Communications Using Orbital Angular Momentum Multiplexing. , 2014, , .		0
169	A Quasi-Optical Tool for the Demultiplexing of Orbital Angular Momentum Carried at Millimeter-Wave Frequencies. , 2014, , .		0
170	Integrated compact vertical cavity surface emitting orbital angular momentum laser. , 2014, , .		0
171	OAM mode converter in twisted fibers. , 2014, , .		0
172	Data Switching in Communication Networks using Orbital-Angular-Momentum Multiplexing. , 2014, , .		1
173	Trajectory-based unveiling of angular momentum of photons. , 2014, , .		0
174	An Ultra-compact On-Chip Interference Optical Orbital Angular Momentum (OAM) Beam Array Generator. , 2014, , .		0
175	Using Orbital Angular Momentum Modes for Optical Transmission. , 2014, , .		7
176	High-dimensional Quantum Key Distribution with Photonic Orbital Angular Momentum. , 2014, , .		0
177	Identification of Non-Ideal Receiver Condition for Orbital Angular Momentum Transmission. , 2014, , .		11
178	Fabrication of spiral phase plates for optical vortices. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
179	An experimental phased array for OAM generation. , 2014, , .		11
180	Generating the orbital angular momentum of radio frequency signals using optical-true-time-delay unit based on optical spectrum processor. Optics Letters, 2014, 39, 2652.	1.7	33
181	Recent Advancements in Optical Orbital-Angular-Momentum Multiplexing. , 2014, , .		1
182	Laguerre Gaussian beam multiplexing through turbulence. Proceedings of SPIE, 2014, , .	0.8	1
183	Vortex confinement and bending with nonlocal solitons. Optics Letters, 2014, 39, 509.	1.7	23
184	Hybrid coding method of multiple orbital angular momentum states based on the inherent orthogonality. Optics Letters, 2014, 39, 731.	1.7	10
185	Random wandering of laser beams with orbital angular momentum during propagation through atmospheric turbulence. Applied Optics, 2014, 53, 3607.	0.9	18
186	Compact and high conversion efficiency mode-sorting asymmetric Y junction using shortcuts to adiabaticity. Optics Letters, 2014, 39, 2306.	1.7	45
187	Adaptive-optics-based simultaneous pre- and post-turbulence compensation of multiple orbital-angular-momentum beams in a bidirectional free-space optical link. Optica, 2014, 1, 376.	4.8	177
188	Controlling light's handedness inside laser resonators. , 2014, , .		0
189	Highly efficient second harmonic generation of a light carrying orbital angular momentum in an external cavity. Optics Express, 2014, 22, 23673.	1.7	29
190	Characterization of topological charge and orbital angular momentum of shaped optical vortices. Optics Express, 2014, 22, 30315.	1.7	24
191	Evaluation of channel capacities of OAM-based FSO link with real-time wavefront correction by adaptive optics. Optics Express, 2014, 22, 31337.	1.7	82
192	Tunable orbital angular momentum mode filter based on optical geometric transformation. Optics Letters, 2014, 39, 1689.	1.7	23
193	Crosstalk mitigation in a free-space orbital angular momentum multiplexed communication link using 4×4 MIMO equalization. Optics Letters, 2014, 39, 4360.	1.7	116
194	Polarization-multiplexed multifocal arrays by a π -phase-step-modulated azimuthally polarized beam. Optics Letters, 2014, 39, 6771.	1.7	37
195	Accurate and practical method for characterizing Laguerre-Gaussian modes. Applied Optics, 2014, 53, 1644.	0.9	2
196	Free-space coherent optical communication with orbital angular, momentum multiplexing/demultiplexing using a hybrid 3D photonic integrated circuit. Optics Express, 2014, 22, 145.	1.7	145

#	ARTICLE	IF	CITATIONS
197	Autocorrelation properties of fully coherent beam with and without orbital angular momentum. Optics Express, 2014, 22, 2925.	1.7	15
198	An intracavity, frequency-doubled self-Raman vortex laser. Optics Express, 2014, 22, 5400.	1.7	39
199	Correcting vortex splitting in higher order vortex beams. Optics Express, 2014, 22, 9920.	1.7	20
200	Expanded all-optical programmable logic array based on multi-input/output canonical logic units. Optics Express, 2014, 22, 9959.	1.7	18
201	A modular spiral phase plate design for orbital angular momentum generation at millimetre wavelengths. Optics Express, 2014, 22, 14712.	1.7	129
202	Efficient and mode selective spatial mode multiplexer based on multi-plane light conversion. Optics Express, 2014, 22, 15599.	1.7	342
203	Characterization of OAM fibers using fiber Bragg gratings. Optics Express, 2014, 22, 15653.	1.7	65
204	Demonstration of CNOT gate with Laguerre Gaussian beams via four-wave mixing in atom vapor. Optics Express, 2014, 22, 20177.	1.7	20
205	Optical data exchange of m-QAM signals using a silicon-organic hybrid slot waveguide: proposal and simulation. Optics Express, 2014, 22, 24796.	1.7	14
206	Tunable mid-infrared ($63 \mu\text{m}$) optical vortex pulse generation. Optics Express, 2014, 22, 26351.	1.7	31
207	Orbital angular moment of a partially coherent beam propagating through an astigmatic ABCD optical system with loss or gain. Optics Letters, 2014, 39, 1968.	1.7	36
208	Ultrahigh-capacity access network architecture for mobile data backhaul using integrated W-band wireless and free-space optical links with OAM multiplexing. Optics Letters, 2014, 39, 4168.	1.7	22
209	Direct observation of the topological charge of a terahertz vortex beam generated by a Tsurupica spiral phase plate. Applied Physics Letters, 2014, 104, .	1.5	83
210	High speed switching between arbitrary spatial light profiles. Optics Express, 2014, 22, 12845.	1.7	18
211	Spontaneous locking of optical vortices in coupled semiconductor lasers. Physical Review A, 2014, 90, .	1.0	5
212	Spin plasmonics in magnetism. Chinese Physics B, 2014, 23, 117802.	0.7	4
213	Mimicking Faraday Rotation to Sort the Orbital Angular Momentum of Light. Physical Review Letters, 2014, 112, 153601.	2.9	95
214	Demonstration of 8-mode 32-Gbit/s millimeter-wave free-space communication link using 4 orbital-angular-momentum modes on 2 polarizations. , 2014, , .		11

#	ARTICLE	IF	CITATIONS
215	Radial quantum number of Laguerre-Gauss modes. <i>Physical Review A</i> , 2014, 89, .	1.0	84
216	All-optical switching in optically induced nonlinear waveguide couplers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	32
217	Electrically-controlled optical phase shifter for broadband radio orbital angular momentum mode generation. , 2014, , .		1
218	Experimental generation of an optical field with arbitrary spatial coherence properties. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, A51.	0.9	42
219	High-capacity millimetre-wave communications with orbital angular momentum multiplexing. <i>Nature Communications</i> , 2014, 5, 4876.	5.8	972
220	Third Harmonic Generation of Optical Vortices Using Holography-Based Gold-Fork Microstructure. <i>Advanced Optical Materials</i> , 2014, 2, 389-393.	3.6	15
221	Effects of atmosphere turbulence on the purity of light carrying orbital angular momentum employing Zernike Polynomials method. , 2014, , .		1
222	Experimental propagation of optical Laguerre-Gauss beams in turbulence. , 2014, , .		3
223	Angular-momentum-dependent splitting of light through metal nanohole. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
224	Dephasing in coherent communication with weak signal states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 275302.	0.7	6
225	Tuning vector vortex in spatially coherent supercontinuum multicolored optical beam using q-plate. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
226	Optical vortex mode generation by nanoarrays with a tailored geometry. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
227	Light's twist: Optical angular momentum. , 2014, , .		0
228	Potential of vortex beams with orbital angular momentum modulation for deep-space optical communication. <i>Optical Engineering</i> , 2014, 53, 056107.	0.5	9
229	Angular momentum radio. , 2014, , .		11
230	Orbit angular momentum encoding at 0.3 THz via 3D printed spiral phase plates. , 2014, , .		3
231	Exciting OAM modes in annular-core fibers via perfect OAM beams. , 2014, , .		6
232	Double metal subwavelength slit arrays interference to measure the orbital angular momentum and the polarization of light. <i>Optics Letters</i> , 2014, 39, 3173.	1.7	36

#	ARTICLE	IF	CITATIONS
233	UCA-based orbital angular momentum radio beam generation and reception under different array configurations. , 2014, , .		37
234	Mode multiplexing and de-multiplexing using few-mode tilted fiber Bragg grating for SDM-WDM transmission system. , 2014, , .		1
235	Ultra-High 230-bit/s/Hz Spectral Efficiency using OFDM/OQAM 64-QAM Signals over Pol-Muxed 22 Orbital Angular Momentum (OAM) Modes. , 2014, , .		18
236	N-dimensional multiplexing link with 1.036-Pbit/s transmission capacity and 112.6-bit/s/Hz spectral efficiency using OFDM-8QAM signals over 368 WDM pol-muxed 26 OAM modes. , 2014, , .		53
237	Single-photon-level quantum memory for photonic states encoded in orbital angular momentum space. National Science Review, 2014, 1, 481-483.	4.6	0
238	Defining the discipline of geobiology. National Science Review, 2014, 1, 483-485.	4.6	3
239	Focus evolution of linearly polarized Lorentz beam with sine-azimuthal variation wavefront induced by one on-axis optical vortex. Optik, 2014, 125, 3088-3092.	1.4	4
240	Humblet's Decomposition of the Electromagnetic Angular Moment in Metallic Waveguides. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 779-788.	2.9	19
241	Free-space communication through turbulence: a comparison of plane-wave and orbital-angular-momentum encodings. Journal of Modern Optics, 2014, 61, 43-48.	0.6	16
242	Direct generation of optical vortices. Physical Review A, 2014, 89, .	1.0	31
243	Stochastic Electronics: A Neuro-Inspired Design Paradigm for Integrated Circuits. Proceedings of the IEEE, 2014, 102, 843-859.	16.4	59
244	Generating Switchable and Reconfigurable Optical Vortices via Photopatterning of Liquid Crystals. Advanced Materials, 2014, 26, 1590-1595.	11.1	143
245	Supersymmetric mode converters. Nature Communications, 2014, 5, 3698.	5.8	143
246	Beam steering and topological transformations driven by interactions between a discrete vortex soliton and a discrete fundamental soliton. Physical Review A, 2014, 89, .	1.0	7
247	Light angular momentum of a plane wave diffracted by a two-dimensional object. Physical Review A, 2014, 89, .	1.0	11
248	Twisted Focusing of Optical Vortices with Broadband Flat Spiral Zone Plates. Advanced Optical Materials, 2014, 2, 1193-1198.	3.6	50
249	Regeneration limit of classical Shannon capacity. Nature Communications, 2014, 5, 3861.	5.8	64
250	Ultra-High-Capacity Passive Optical Network Systems with Free-Space Optical Communications. Fiber and Integrated Optics, 2014, 33, 149-162.	1.7	16

#	ARTICLE	IF	CITATIONS
251	Communication with spatially modulated light through turbulent air across Vienna. <i>New Journal of Physics</i> , 2014, 16, 113028.	1.2	405
252	Sub-Wavelength Grating Lenses With a Twist. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 1375-1378.	1.3	134
253	Optical vortex beam based optical fan for high-precision optical measurements and optical switching. <i>Optics Letters</i> , 2014, 39, 5098.	1.7	46
254	Light beams with selective angular momentum generated by hybrid plasmonic waveguides. <i>Nanoscale</i> , 2014, 6, 12360-12365.	2.8	35
255	Simulation of free-space communication using the Orbital Angular Momentum of radio waves. , 2014, , .		5
256	Shortcut to Mode Conversion via Level Crossing in Engineered Multimode Waveguides. <i>IEEE Photonics Technology Letters</i> , 2014, 26, 123-126.	1.3	9
257	Determination of the topological charge of a twisted beam with a Fresnel bi-prism. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 125703.	1.0	8
258	Interface between path and orbital angular momentum entanglement for high-dimensional photonic quantum information. <i>Nature Communications</i> , 2014, 5, 4502.	5.8	148
259	Pancharatnam-phase-based characterization for the diffraction of an optical vortex beam. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2014, 47, 115401.	0.6	3
260	Light-matter interaction induces a single positive vortex with swirling arms. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20140019.	1.6	16
261	Generation of two beams of light carrying spin and orbital angular momenta of opposite handedness. <i>Optics Letters</i> , 2014, 39, 5074.	1.7	15
262	Creating High-Harmonic Beams with Controlled Orbital Angular Momentum. <i>Physical Review Letters</i> , 2014, 113, 153901.	2.9	244
263	Free-Space Quantum Key Distribution by Rotation-Invariant Twisted Photons. <i>Physical Review Letters</i> , 2014, 113, 060503.	2.9	331
264	Measurement of the orbital angular momentum density of Bessel beams by projection into a Laguerre-Gaussian basis. <i>Applied Optics</i> , 2014, 53, 5924.	0.9	6
265	The effect of atomic and optical perturbations on formation and propagation of vortex solitons in a dense atomic media of gas-filled hollow-core optical fibers. <i>European Physical Journal D</i> , 2014, 68, 1.	0.6	14
266	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. <i>Nature Communications</i> , 2014, 5, 4856.	5.8	149
267	A quantum memory for orbital angular momentum photonic qubits. <i>Nature Photonics</i> , 2014, 8, 234-238.	15.6	373
268	Young's double-slit interference pattern from a twisted beam. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 487-491.	1.1	47

#	ARTICLE	IF	CITATIONS
269	Ultrawide-Bandwidth Single-Channel 0.4-THz Wireless Link Combining Broadband Quasi-Optic Photomixer and Coherent Detection. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 328-337.	2.0	115
270	Three-dimensional measurements of a millimeter wave orbital angular momentum vortex. Optics Letters, 2014, 39, 626.	1.7	36
271	Adaptive optics compensation of multiple orbital angular momentum beams propagating through emulated atmospheric turbulence. Optics Letters, 2014, 39, 2845.	1.7	138
272	Diffraction nanophotonics and advanced information technologies. Herald of the Russian Academy of Sciences, 2014, 84, 9-20.	0.2	48
273	A review of recent progress in plasmon-assisted nanophotonic devices. Frontiers of Optoelectronics, 2014, 7, 320-337.	1.9	22
274	Simulating thick atmospheric turbulence in the lab with application to orbital angular momentum communication. New Journal of Physics, 2014, 16, 033020.	1.2	85
275	Generation of Coherent Extreme-Ultraviolet Radiation Carrying Orbital Angular Momentum. Physical Review Letters, 2014, 112, .	2.9	43
276	Shaping electron beams for the generation of innovative measurements in the (S)TEM. Comptes Rendus Physique, 2014, 15, 190-199.	0.3	24
277	Reconfigurable 2 Å– 2 orbital angular momentum based optical switching of 50-Gbaud QPSK channels. Optics Express, 2014, 22, 756.	1.7	22
278	Characteristic study of anomalous vortex beam through a paraxial optical system. Optics Communications, 2014, 331, 32-38.	1.0	12
279	Ultra-low phase noise frequency synthesis from optical atomic frequency standards. , 2014, , .		1
280	Chiral Surface Plasmon Polaritons on One-Dimension Nanowires. , 2014, , 221-237.		0
281	Actively reconfigurable compact vortex beam emitters. , 2014, , .		0
282	Ka-band orbital angular momentum folded reflectarray antenna. , 2015, , .		2
283	Amplification of 12 OAM Modes in an air-core erbium doped fiber. Optics Express, 2015, 23, 28341.	1.7	53
284	Singular optical lattice generation using light beams with orbital angular momentum. Optics Letters, 2015, 40, 5129.	1.7	10
285	Plane spiral orbital angular momentum electromagnetic wave. , 2015, , .		19
286	Generation of radio orbital angular momentum (OAM) waves with circular metallic waveguide. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
287	Recovery of quantum coherence by spatial propagation. , 2015, , .		0
288	Resonance scattering of electromagnetic vortex bessel beams by an artificial gyrotropic cylinder. , 2015, , .		1
289	Analytical investigation of optical vortices emitted from a collectively polarized dipole array. Optics Express, 2015, 23, 27998.	1.7	3
290	Photonic Crystals Paolo Bettotti. , 2015, , 23-68.		0
291	Insensitivity of spin dynamics to the orbital angular momentum transferred from twisted light to extended semiconductors. Physical Review B, 2015, 92, .	1.1	7
292	Interaction between x-ray and magnetic vortices. Physical Review B, 2015, 92, .	1.1	14
293	Effect of Orbital Angular Momentum on Nondiffracting Ultrashort Optical Pulses. Physical Review Letters, 2015, 115, 100401.	2.9	55
294	Generation and excitation of different orbital angular momentum states in a tunable microstructure optical fiber. Optics Express, 2015, 23, 33741.	1.7	23
295	Orbital angular momentum in electron diffraction and its use to determine chiral crystal symmetries. Physical Review B, 2015, 92, .	1.1	19
296	Simultaneous demultiplexing and steering of multiple orbital angular momentum modes. Scientific Reports, 2015, 5, 15406.	1.6	48
298	Capacity analysis of OAM multiplexing system for radio communications. , 2015, , .		1
299	Detecting Lateral Motion using Light's Orbital Angular Momentum. Scientific Reports, 2015, 5, 15422.	1.6	113
300	Mode division multiplexing using an orbital angular momentum mode sorter and MIMO-DSP over a graded-index few-mode optical fibre. Scientific Reports, 2015, 5, 14931.	1.6	216
301	Observation of quantum recoherence of photons by spatial propagation. Scientific Reports, 2015, 5, 15330.	1.6	9
302	Parametric amplification of orbital angular momentum beams based on light-acoustic interaction. Applied Physics Letters, 2015, 107, .	1.5	17
303	Pattern manipulation via on-chip phase modulation between orbital angular momentum beams. Applied Physics Letters, 2015, 107, 051102.	1.5	9
304	Magnetic-field-induced rotation of light with orbital angular momentum. Applied Physics Letters, 2015, 106, .	1.5	25
305	3D micro-optical elements for generation of tightly focused vortex beams. MATEC Web of Conferences, 2015, 32, 03002.	0.1	1

#	ARTICLE	IF	CITATIONS
306	Plasmon-induced strong interaction between chiral molecules and orbital angular momentum of light. Scientific Reports, 2015, 5, 18003.	1.6	39
307	Bell's measure and implementing quantum Fourier transform with orbital angular momentum of classical light. Scientific Reports, 2015, 5, 14113.	1.6	25
308	Demonstration of few mode fiber transmission link seeded by a silicon photonic integrated optical vortex emitter. , 2015, , .		1
309	Dividing and multiplying the mode order for orbital-angular-momentum beams. , 2015, , .		2
310	Superdense teleportation and quantum key distribution for space applications. , 2015, , .		4
311	Experimental measurements of multipath-induced intra- and inter-channel crosstalk effects in a millimeter-wave communications link using orbital-angular-momentum multiplexing. , 2015, , .		18
312	Optical fiber design with orbital angular momentum light purity higher than 999%. Optics Express, 2015, 23, 29331.	1.7	70
313	Generation of OAM radio waves using slot antenna array. , 2015, , .		3
314	Generalized ray optics and orbital angular momentum carrying beams. New Journal of Physics, 2015, 17, 103034.	1.2	9
316	Analysis of the topological charge of vortex beams using a hole wheel. Europhysics Letters, 2015, 111, 34001.	0.7	5
317	On-axis shaping of second-harmonic beams. Laser and Photonics Reviews, 2015, 9, L40.	4.4	33
318	Tripling the capacity of a point-to-point radio link by using electromagnetic vortices. Radio Science, 2015, 50, 501-508.	0.8	34
319	Quantum-path signatures in attosecond helical beams driven by optical vortices. New Journal of Physics, 2015, 17, 093029.	1.2	55
320	GRAPHENE ASSISTED RADIATION ADJUSTABLE OAM GENERATOR. Progress in Electromagnetics Research M, 2015, 42, 31-38.	0.5	3
321	Demonstration of Distance Emulation for an Orbital-Angular-Momentum Beam. , 2015, , .		1
322	Demonstration of 1-to-72 Multicasting (8 Wavelengths – 9 Orbital Angular Momentum Modes) of DMT QPSK Signal in a Free-space IM-DD System. , 2015, , .		0
323	Ho:YAG Rod Amplifier For High Order Vortex Modes. , 2015, , .		0
324	Performance Metrics for a Free-space Communication Link Based on Multiplexing of Multiple Orbital Angular Momentum Beams with Higher Order Radial Indices. , 2015, , .		2

#	ARTICLE	IF	CITATIONS
325	Generation of cylindrically symmetric modes and orbital-angular-momentum modes with tilted optical gratings inscribed in high-numerical-aperture fibers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 150.	0.8	4
326	Coupled mode theory for orbital angular momentum modes transmission in the presence of atmosphere turbulence. Optics Express, 2015, 23, 31964.	1.7	13
327	Efficient modal analysis using compressive optical interferometry. Optics Express, 2015, 23, 28449.	1.7	9
328	Generation of OAM Radio Waves with Three Polarizations Using Circular Horn Antenna Array. International Journal of Antennas and Propagation, 2015, 2015, 1-11.	0.7	41
329	Characterization of OAM carrying beams by means of holographic correlation filters. Proceedings of SPIE, 2015, , .	0.8	0
330	Multiplexed Millimeter Wave Communication with Dual Orbital Angular Momentum (OAM) Mode Antennas. Scientific Reports, 2015, 5, 10148.	1.6	195
331	Generation of Intense High-Order Vortex Harmonics. Physical Review Letters, 2015, 114, 173901.	2.9	117
332	Massive individual orbital angular momentum channels for multiplexing enabled by Dammann gratings. Light: Science and Applications, 2015, 4, e257-e257.	7.7	426
333	Orbital angular momentum vertical-cavity surface-emitting lasers. Optica, 2015, 2, 547.	4.8	108
334	Adaptive power-controllable orbital angular momentum (OAM) multicasting. Scientific Reports, 2015, 5, 9677.	1.6	38
335	Exploiting the unique intensity gradient of an orbital-angular-momentum beam for accurate receiver alignment monitoring in a free-space communication link. , 2015, , .		0
336	On the orbital angular momentum based modulation/demodulation scheme for free space optical communications. , 2015, , .		3
337	Handedness control in a tunable midinfrared ($60\text{--}125\ \mu\text{m}$) vortex laser. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2406.	0.9	21
338	The physics of angular momentum radio. , 2015, , .		5
339	All-Optical-Fiber Orbital Angular Momentum Mode Generator With a Helical Phase Disk Inserted Between Fibers. IEEE Photonics Journal, 2015, 7, 1-7.	1.0	2
340	Demonstration of obstruction-free data-carrying N-fold Bessel modes multicasting from a single Gaussian mode. Optics Letters, 2015, 40, 5463.	1.7	33
341	Demonstration of controllable orbital angular momentum (OAM) beam generation using an all-fiber system. , 2015, , .		0
342	160 Gbaud Nyquist optical time-division multiplexed signal transmission through 4 km emulated free-space turbulence link. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
343	Light's twist. , 2015, , .		0
344	Ho:YAG rod amplifier for vortex beams. , 2015, , .		1
345	Optical vortex induction via light-matter interaction in liquid-crystal media. Advances in Optics and Photonics, 2015, 7, 635.	12.1	72
346	LDPC-coded OAM based FSO transmission system in the presence of strong atmospheric turbulence. , 2015, , .		2
347	Compact orbital angular momentum mode multiplexer/demultiplexer based on a michelson interferometer with Porro prisms. , 2015, , .		1
348	Photonic integrated devices for exploiting the orbital angular momentum (OAM) of light in optical communications. , 2015, , .		1
349	Photonic demultiplexer for radio frequency orbital-angular-momentum signals. , 2015, , .		0
350	High-base vector beam encoding/decoding for visible-light communications. Optics Letters, 2015, 40, 4843.	1.7	179
351	Perforated dielectric antenna reflectarray for OAM generation. , 2015, , .		16
352	Design of a horn lens antenna for OAM generation. , 2015, , .		12
353	Ultra-high 435-bit/s/Hz spectral efficiency using N-dimensional multiplexing and modulation link with pol-muxed 52 orbital angular momentum (OAM) modes carrying Nyquist 32-QAM signals. , 2015, , .		13
354	Horn antenna for generating Orbital Angular Momentum (OAM) waves. , 2015, , .		4
355	Experimental evaluation of LDPC-coded OAM based FSO communication in the presence of atmospheric turbulence. , 2015, , .		0
356	Generation of THz wave with orbital angular momentum by graphene patch reflectarray. , 2015, , .		15
357	Orbital angular momentum mode multiplexing with half-mode substrate integrated waveguide antenna. , 2015, , .		2
358	Radio-over-fiber transmission using vortex modes. , 2015, , .		1
359	Radio vortex for future wireless broadband communications with high capacity. IEEE Wireless Communications, 2015, 22, 98-104.	6.6	14
360	Generation of OAM millimeter waves using traveling-wave circular slot antenna based on ring resonant cavity. , 2015, , .		13

#	ARTICLE	IF	CITATIONS
361	Using the nonseparability of vector beams to encode information for optical communication. Optics Letters, 2015, 40, 4887.	1.7	302
362	Phonon propagation dynamics in band-engineered one-dimensional phononic crystal waveguides. New Journal of Physics, 2015, 17, 113032.	1.2	17
363	Experimental demonstration of 20 Gbit/s data encoding and 2 channels channel hopping using orbital angular momentum modes. Optics Letters, 2015, 40, 5810.	1.7	59
364	850-nm hybrid fiber/free-space optical communications using orbital angular momentum modes. Optics Express, 2015, 23, 33721.	1.7	24
365	Toward the design of a motion-free tunable coupling module for varying spatial beam profiles: foundations of optimal coupling of a Gaussian mode into a fiber collimator with a dynamic two-lens system. Applied Optics, 2015, 54, 9242.	2.1	5
366	High-dimensional structured light coding/decoding for free-space optical communications free of obstructions. Optics Letters, 2015, 40, 4827.	1.7	104
367	Orbital angular momentum mode multiplexing with half-mode substrate integrated waveguide antenna. , 2015, , .		0
368	Demonstration of hybrid orbital angular momentum multiplexing and time-division multiplexing passive optical network. Optics Express, 2015, 23, 29457.	1.7	76
369	Characterization of vortex beams synthesized on the basis of a fiber laser array. , 2015, , .		2
370	Free space optical communication with spatial diversity based on orbital angular momentum of light. , 2015, , .		11
371	Free space optical communications system with helical beams. , 2015, , .		2
372	Generation of light with controllable spatial patterns via the sum frequency in quasi-phase matching crystals. Scientific Reports, 2014, 4, 5650.	1.6	23
373	Laser Spectroscopy Using Topological Light Beams. Nano-optics and Nanophotonics, 2015, , 83-117.	0.2	0
374	On the scalability of ring fiber designs for OAM multiplexing. Optics Express, 2015, 23, 3721.	1.7	117
375	Direct observation of surface plasmon vortex and subwavelength focusing with arbitrarily-tailored intensity patterns. Applied Physics Letters, 2015, 106, .	1.5	22
376	Perfect vortex beam: Fourier transformation of a Bessel beam. Optics Letters, 2015, 40, 597.	1.7	354
377	Beyond 100-Gb/s Indoor Wide Field-of-View Optical Wireless Communications. IEEE Photonics Technology Letters, 2015, 27, 367-370.	1.3	109
378	Sorting photon wave packets using temporal-mode interferometry based on multiple-stage quantum frequency conversion. Physical Review A, 2015, 91, .	1.0	24

#	ARTICLE	IF	CITATIONS
379	Quantum Storage of Orbital Angular Momentum Entanglement in an Atomic Ensemble. <i>Physical Review Letters</i> , 2015, 114, 050502.	2.9	214
380	TeraHertz Photonics for Wireless Communications. <i>Journal of Lightwave Technology</i> , 2015, 33, 579-587.	2.7	278
381	Propagation of optical vortices embedded with multiple wavefront singularities. <i>Journal of Modern Optics</i> , 2015, 62, 649-657.	0.6	5
382	Ultralow Reflectivity Spiral Phase Plate for Generation of Millimeter-wave OAM Beam. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2015, 14, 966-969.	2.4	179
383	Measuring OAM states of light beams with gradually-changing-period gratings. <i>Optics Letters</i> , 2015, 40, 562.	1.7	98
384	Transmission Characteristics of a Twisted Radio Wave Based on Circular Traveling-Wave Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 1530-1536.	3.1	183
385	Transfer of orbital angular momentum through sub-wavelength waveguides. <i>Optics Express</i> , 2015, 23, 2857.	1.7	11
386	Statistical properties of an anomalous hollow beam with orbital angular momentum. <i>Journal of Modern Optics</i> , 2015, 62, 179-185.	0.6	14
387	Arbitrary manipulation of spatial amplitude and phase using phase-only spatial light modulators. <i>Scientific Reports</i> , 2014, 4, 7441.	1.6	125
388	Holographic optical metasurfaces: a review of current progress. <i>Reports on Progress in Physics</i> , 2015, 78, 024401.	8.1	263
389	Probing the topological charge of a vortex beam with dynamic angular double slits. <i>Optics Letters</i> , 2015, 40, 788.	1.7	45
390	Measuring Topological Charges of Optical Vortices with Multi-Singularity Using a Cylindrical Lens. <i>Chinese Physics Letters</i> , 2015, 32, 024201.	1.3	23
391	Self-imaging of orbital angular momentum (OAM) modes in rectangular multimode interference waveguides. <i>Optics Express</i> , 2015, 23, 5014.	1.7	12
392	Spatio-temporal coherence mapping of few-cycle vortex pulses. <i>Scientific Reports</i> , 2014, 4, 7148.	1.6	24
393	Self-splitting properties of a Hermite-Gaussian correlated Schell-model beam. <i>Physical Review A</i> , 2015, 91, .	1.0	124
394	Performance evaluation of analog signal transmission in an orbital angular momentum multiplexing system. <i>Optics Letters</i> , 2015, 40, 760.	1.7	20
395	High-dimensional quantum cryptography with twisted light. <i>New Journal of Physics</i> , 2015, 17, 033033.	1.2	475
396	Curved singular beams for three-dimensional particle manipulation. <i>Scientific Reports</i> , 2015, 5, 12086.	1.6	107

#	ARTICLE	IF	CITATIONS
397	Design of On-Chip N-Fold Orbital Angular Momentum Multicasting Using V-Shaped Antenna Array. Scientific Reports, 2015, 5, 9662.	1.6	38
398	Interferometric orbital angular momentum mode multiplexer/demultiplexer based on pairs of cylindrical lenses. Electronics Letters, 2015, 51, 278-280.	0.5	2
399	Quantum simulation of 2D topological physics in a 1D array of optical cavities. Nature Communications, 2015, 6, 7704.	5.8	119
400	Demonstration of polarization-insensitive spatial light modulation using a single polarization-sensitive spatial light modulator. Scientific Reports, 2015, 5, 9959.	1.6	29
401	A planar chiral meta-surface for optical vortex generation and focusing. Scientific Reports, 2015, 5, 10365.	1.6	164
402	Orbital angular momentum filter of photon based on spin-orbital angular momentum coupling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2530-2534.	0.9	10
403	Identifying Orbital Angular Momentum of Vectorial Vortices with Pancharatnam Phase and Stokes Parameters. Scientific Reports, 2015, 5, 11982.	1.6	23
404	Quantum state tomography of orbital angular momentum photonic qubits via a projection-based technique. New Journal of Physics, 2015, 17, 033037.	1.2	22
405	Discrete emitters as a source of orbital angular momentum. Journal of Optics (United Kingdom), 2015, 17, 045608.	1.0	18
406	Universal entanglement decay of photonic-orbital-angular-momentum qubit states in atmospheric turbulence. Physical Review A, 2015, 91, .	1.0	69
407	Divergence of an orbital-angular-momentum-carrying beam upon propagation. New Journal of Physics, 2015, 17, 023011.	1.2	215
408	Superpositions of asymmetrical Bessel beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2015, 32, 1046.	0.8	13
409	Far field diffraction of an optical vortex beam by a fork-shaped grating. Optics Communications, 2015, 350, 301-308.	1.0	47
410	Sensitivity of singular beams in the presence of Zernike aberrations. Optics and Lasers in Engineering, 2015, 71, 74-84.	2.0	11
411	Family of three-dimensional asymmetric nonparaxial Lommel modes. Proceedings of SPIE, 2015, , .	0.8	7
412	OAM states generation/detection based on the multimode interference effect in a ring core fiber. Optics Express, 2015, 23, 10247.	1.7	16
413	Orbital angular momentum modes do not increase the channel capacity in communication links. New Journal of Physics, 2015, 17, 043040.	1.2	43
414	Optical phased array radiating optical vortex with manipulated topological charges. Optics Express, 2015, 23, 4873.	1.7	6

#	ARTICLE	IF	CITATIONS
415	Generation of Electromagnetic Waves with Arbitrary Orbital Angular Momentum Modes. Scientific Reports, 2014, 4, 4814.	1.6	212
416	Generation of OAM waves with circular phase shifter and array of patch antennas. Electronics Letters, 2015, 51, 442-443.	0.5	69
417	Creating Optical Near-Field Orbital Angular Momentum in a Gold Metasurface. Nano Letters, 2015, 15, 2746-2750.	4.5	113
418	Modal-Weight Measurements With Fiber Gratings. Journal of Lightwave Technology, 2015, 33, 2784-2790.	2.7	7
419	Conservation of orbital angular momentum in air-core optical fibers. Optica, 2015, 2, 267.	4.8	254
420	Orbital angular momentum mode-demultiplexing scheme with partial angular receiving aperture. Optics Express, 2015, 23, 12251.	1.7	57
421	A Novel PON Architecture Based on OAM Multiplexing for Efficient Bandwidth Utilization. IEEE Photonics Journal, 2015, 7, 1-6.	1.0	19
422	Optical communications using orbital angular momentum beams. Advances in Optics and Photonics, 2015, 7, 66.	12.1	1,377
423	Phase correction for a distorted orbital angular momentum beam using a Zernike polynomials-based stochastic-parallel-gradient-descent algorithm. Optics Letters, 2015, 40, 1197.	1.7	101
424	Accessing orbital angular momentum of quantum-ring excitons via directional semiconductor luminescence. New Journal of Physics, 2015, 17, 033046.	1.2	1
425	Performance metrics and design considerations for a free-space optical orbital-angular-momentum multiplexed communication link. Optica, 2015, 2, 357.	4.8	164
426	Orbital angular momentum (OAM) modes routing in a ring fiber based directional coupler. Optics Communications, 2015, 350, 160-164.	1.0	8
427	High efficiency frequency upconversion of photons carrying orbital angular momentum for a quantum information interface. Optics Express, 2015, 23, 9796.	1.7	19
428	Towards High-Density Orbital-Angular-Momentum Modulation for Turbulent Channels. , 2015, , .		0
429	Tomography of spatial mode detectors. Optics Express, 2015, 23, 649.	1.7	8
430	Potentials and challenges of using orbital angular momentum communications in optical interconnects. Optics Express, 2015, 23, 3075.	1.7	110
431	High-order optical vortex position detection using a Shack-Hartmann wavefront sensor. Optics Express, 2015, 23, 8706.	1.7	14
432	Widely-tunable vortex output from a singly resonant optical parametric oscillator. Optics Express, 2015, 23, 18338.	1.7	24

#	ARTICLE	IF	CITATIONS
433	Supermode fiber for orbital angular momentum (OAM) transmission. Optics Express, 2015, 23, 18736.	1.7	70
434	Subwavelength grating based metal-oxide nano-hair structures for optical vortex generation. Optics Express, 2015, 23, 19056.	1.7	7
435	Turbulence compensation of an orbital angular momentum and polarization-multiplexed link using a data-carrying beacon on a separate wavelength. Optics Letters, 2015, 40, 2249.	1.7	46
436	Square lattices of quasi-perfect optical vortices generated by two-dimensional encoding continuous-phase gratings. Optics Letters, 2015, 40, 2513.	1.7	46
437	Azimuthal multiple-beam interference effects with combinations of vortex beams. Optics Letters, 2015, 40, 2341.	1.7	11
438	Widely tunable $1\frac{1}{4}\mu\text{m}$ optical vortex laser. , 2015, , .		0
439	Simultaneous generation of multiple orbital angular momentum (OAM) modes using a single phase-only element. Optics Express, 2015, 23, 26221.	1.7	47
440	Sum frequency generation with two orbital angular momentum carrying laser beams. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 407.	0.9	60
441	Neutrons with a twist. Nature, 2015, 525, 462-463.	13.7	4
442	Fiber propagation of vector modes. Optics Express, 2015, 23, 17330.	1.7	94
443	Classical to quantum optical network link for orbital angular momentum-carrying light. Optics Express, 2015, 23, 18435.	1.7	14
444	Controllable all-fiber orbital angular momentum mode converter. Optics Letters, 2015, 40, 4376.	1.7	206
445	Scintillations of optical vortex in randomly inhomogeneous medium. Photonics Research, 2015, 3, 44.	3.4	19
446	Arbitrary and reconfigurable optical vortex generation: a high-efficiency technique using director-varying liquid crystal fork gratings. Photonics Research, 2015, 3, 133.	3.4	106
447	Fractional Fourier transform of non-integer vortex beams. Proceedings of SPIE, 2015, , .	0.8	1
448	Directly measuring mean and variance of infinite-spectrum observables such as the photon orbital angular momentum. Nature Communications, 2015, 6, 8606.	5.8	14
449	Q-plates for Switchable Excitation of Fiber OAM Modes. , 2015, , .		1
450	Using electron vortex beams to determine chirality of crystals in transmission electron microscopy. Physical Review B, 2015, 91, .	1.1	62

#	ARTICLE	IF	CITATIONS
451	Space-Division Demultiplexing in Orbital-Angular-Momentum-Based MIMO Radio Systems. IEEE Transactions on Antennas and Propagation, 2015, 63, 4582-4587.	3.1	183
452	Novel method of axis alignment in orbital angular momentum wireless communication. , 2015, , .		2
453	The Effect of Orbital Angular Momentum on Nondiffracting Optical Pulses. , 2015, , .		0
454	Study of Turbulence Induced Orbital Angular Momentum Channel Crosstalk in a 1.6km Free-Space Optical Link. , 2015, , .		5
455	Direct fiber excitation with a digitally controlled solid state laser source. Optics Letters, 2015, 40, 435.	1.7	9
456	Characterization and mitigation of phase-modulation-dependent loss of liquid crystal on silicon. Optics Letters, 2015, 40, 1484.	1.7	4
457	Demonstration of M-ary Encoding/Decoding Using Visible-Light Bessel Beams Carrying Orbital Angular Momentum (OAM) For Free-Space Obstruction-Free Optical Communications. , 2015, , .		4
458	Experimental Demonstration of Free-Space Optical Communications Using OFDM-QPSK/16QAM-Carrying Fractional Orbital Angular Momentum (OAM) Multiplexing. , 2015, , .		9
459	Experimental demonstration of 16-Gbit/s millimeter-wave communications link using thin metamaterial plates to generate data-carrying orbital-angular-momentum beams. , 2015, , .		17
460	Quantum information interface for orbital angular momentum photons. , 2015, , .		0
461	Survey and Evaluation of Space Division Multiplexing: From Technologies to Optical Networks. IEEE Communications Surveys and Tutorials, 2015, 17, 2136-2156.	24.8	267
462	High-Efficiency All-Dielectric Metasurfaces for Ultracompact Beam Manipulation in Transmission Mode. Nano Letters, 2015, 15, 6261-6266.	4.5	524
463	Performance Enhancement of an Orbital-Angular-Momentum-Based Free-Space Optical Communication Link through Beam Divergence Controlling. , 2015, , .		2
464	A new designed dual-guided ring-core fiber for OAM mode transmission. Optical Fiber Technology, 2015, 25, 58-63.	1.4	28
465	Fabrication and characterization of high-quality spiral phase plates for optical applications. Applied Optics, 2015, 54, 4077.	2.1	74
466	Flexible generation/conversion/exchange of fiber-guided orbital angular momentum modes using helical gratings. Optics Letters, 2015, 40, 4010.	1.7	63
467	Orbital-angular-momentum crosstalk and temporal fading in a terrestrial laser link using single-mode fiber coupling. Optics Express, 2015, 23, 23133.	1.7	28
468	One exposure processing to fabricate spiral phase plate with continuous surface. Optics Express, 2015, 23, 8620.	1.7	18

#	ARTICLE	IF	CITATIONS
469	Free-space optical communications using orbital-angular-momentum multiplexing combined with MIMO-based spatial multiplexing. Optics Letters, 2015, 40, 4210.	1.7	69
470	Spontaneous formation and nonequilibrium dynamics of a soliton-shaped Bose-Einstein condensate in a trap. Physical Review E, 2015, 91, 062901.	0.8	3
471	Programmable lattices of optical vortices in nematic liquid crystal. Proceedings of SPIE, 2015, , .	0.8	0
472	Design of Supermode Fiber for Orbital Angular Momentum (OAM) Multiplexing. , 2015, , .		0
473	Encoding information using Laguerre Gaussian modes. Proceedings of SPIE, 2015, , .	0.8	0
474	Observation of stable-vector vortex solitons. Optics Letters, 2015, 40, 4182.	1.7	40
475	Launching OAM-carrying waves by a leaky circular current loop. , 2015, , .		1
476	Experimental Demonstration of a 400-Gbit/s Free Space Optical Link Using Multiple Orbital-Angular-Momentum Beams with Higher Order Radial Indices. , 2015, , .		3
477	Experimental Demonstration of Free-Space Optical Communications Using Orbital Angular Momentum (OAM) Array Encoding/Decoding. , 2015, , .		2
478	Capacity limits of spatially multiplexed free-space communication. Nature Photonics, 2015, 9, 822-826.	15.6	215
479	Near-Field Experimental Verification of Separation of OAM Channels. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 556-558.	2.4	100
480	A Compact Trench-Assisted Multi-Orbital-Angular-Momentum Multi-Ring Fiber for Ultrahigh-Density Space-Division Multiplexing (19 Rings Å— 22 Modes). Scientific Reports, 2014, 4, 3853.	1.6	110
481	Lommel modes. Optics Communications, 2015, 338, 117-122.	1.0	40
483	THz Communications using Photonics and Electronic Devices: the Race to Data-Rate. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 198-220.	1.2	69
484	Photon number resolution enables quantum receiver for realistic coherent optical communications. Nature Photonics, 2015, 9, 48-53.	15.6	99
485	Beam wander of random electromagnetic Gaussian-shell model vortex beams propagating through a Kolmogorov turbulence. Optics Communications, 2015, 336, 55-58.	1.0	41
486	Automultiscopic displays based on orbital angular momentum of light. Journal of Optics (United Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 1	1.0	21
487	Revealing the radial modes in vortex beams. Applied Optics, 2016, 55, 7830.	2.1	64

#	ARTICLE	IF	CITATIONS
488	High-order optical vortex generation in a few-mode fiber via cascaded acoustically driven vector mode conversion. Optics Letters, 2016, 41, 5082.	1.7	87
489	Iterative creation and sensing of twisted light. Optics Letters, 2016, 41, 5744.	1.7	9
490	Experimental Demonstration of 260-meter Security Free-Space Optical Data Transmission Using 16-QAM Carrying Orbital Angular Momentum (OAM) Beams Multiplexing. , 2016, , .		33
491	Demonstration of 20-Gbit/s high-speed Bessel beam encoding/decoding link with adaptive turbulence compensation. Optics Letters, 2016, 41, 4680.	1.7	66
492	All-fiber laser generating orbital angular momentum beams based on a two-mode fiber long-period grating. , 2016, , .		3
493	Flexible and achromatic generation of optical vortices by use of vector beam recorded functionalized liquid crystals. Applied Optics, 2016, 55, 10427.	2.1	4
494	Transcoder for the spatial and temporal modes of a photon. Optics Express, 2016, 24, 13800.	1.7	3
495	Generation of linearly polarized orbital angular momentum modes in a side-hole ring fiber with tunable topology numbers. Optics Express, 2016, 24, 17272.	1.7	8
496	Strong scintillations of pulsed Laguerrian beams in a turbulent atmosphere. Optics Express, 2016, 24, 19264.	1.7	14
497	Optical vortex generation with wavelength tunability based on an acoustically-induced fiber grating. Optics Express, 2016, 24, 19278.	1.7	78
498	Characterizing the radial content of orbital-angular-momentum photonic states impaired by weak-to-strong atmospheric turbulence. Optics Express, 2016, 24, 19713.	1.7	24
499	OAM-labeled free-space optical flow routing. Optics Express, 2016, 24, 21642.	1.7	16
500	Comparing the information capacity of Laguerreâ€“Gaussian and Hermiteâ€“Gaussian modal sets in a finite-aperture system. Optics Express, 2016, 24, 27127.	1.7	39
501	Integrated optical vortex beam receivers. Optics Express, 2016, 24, 28529.	1.7	14
502	Generating an orbital-angular-momentum beam with a metasurface of gradient reflective phase. Optical Materials Express, 2016, 6, 3940.	1.6	59
503	Laguerreâ€“Gauss and Besselâ€“Gauss beams propagation through turbulence: analysis of channel efficiency. Applied Optics, 2016, 55, 10239.	2.1	77
504	~1 mJ pulsed vortex laser at 1645 nm with well-defined helicity. Optics Express, 2016, 24, 15596.	1.7	35
505	Encoding/decoding using superpositions of spatial modes for image transfer in km-scale few-mode fiber. Optics Express, 2016, 24, 16934.	1.7	61

#	ARTICLE	IF	CITATIONS
506	Simulation of orbital angular momentum radio communication systems based on partial aperture sampling receiving scheme. IET Microwaves, Antennas and Propagation, 2016, 10, 1043-1047.	0.7	26
507	Probing the fractional topological charge of a vortex light beam by using dynamic angular double slits. Photonics Research, 2016, 4, 187.	3.4	43
508	Demonstration of Orbital Angular Momentum (OAM) Modes Emission from a Silicon Photonic Integrated Device for 20 Gbit/s QPSK Carrying Data Transmission in Few-Mode Fiber. , 2016, , .		0
509	Backplane aberration calibration of spatial light modulators using a phase-retrieval algorithm. Applied Optics, 2016, 55, 8916.	2.1	6
510	Diffraction Orbital Angular Momentum Demultiplexing Elements for Underwater Optical Communications. , 2016, , .		1
511	ORBITAL ANGULAR MOMENTUM RADIATION FROM CIRCULAR PATCHES. Progress in Electromagnetics Research Letters, 2016, 61, 13-18.	0.4	8
512	75 Gbps AUD N-QPSK signal transmission with orbital angular momentum multiplexing. Microwave and Optical Technology Letters, 2016, 58, 1866-1869.	0.9	4
513	Conical third-harmonic generation of optical vortex through ultrashort laser filamentation in air. Optics Express, 2016, 24, 14857.	1.7	23
514	Geometric metasurface fork gratings for vortex beam generation and manipulation. Laser and Photonics Reviews, 2016, 10, 322-326.	4.4	100
516	Mode Conversion and Orbital Angular Momentum Transfer Among Multiple Modes by Helical Gratings. IEEE Journal of Quantum Electronics, 2016, 52, 1-6.	1.0	10
517	Cyclic transformation of orbital angular momentum modes. New Journal of Physics, 2016, 18, 043019.	1.2	36
518	Is there an optimal basis to maximise optical information transfer?. Scientific Reports, 2016, 6, 22821.	1.6	38
519	Revolutionizing optical fiber transmission and networking using the Orbital Angular Momentum of light. , 2016, , .		1
520	Multiplexing and demultiplexing of the complex signal in the singular beams propagating in a few-mode optical fibers: an experiment. Journal of Physics: Conference Series, 2016, 737, 012003.	0.3	2
521	Experimental demonstration of high-speed spatial light modulation enabling 25-Gbit/s twisted light encoding/decoding and 260-m security free-space data transmission. , 2016, , .		0
522	Orbital Angular Momentum-based Space Division Multiplexing for High-capacity Underwater Optical Communications. Scientific Reports, 2016, 6, 33306.	1.6	156
523	Theory of Reflective Phase-Shifting Surface for Generating Vortex Radio Waves. IEEE Transactions on Antennas and Propagation, 2016, 64, 4942-4948.	3.1	7
524	Inverse-designed all-dielectric waveguide bend. Proceedings of SPIE, 2016, , .	0.8	3

#	ARTICLE	IF	CITATIONS
525	Artificial perfect electric conductor-perfect magnetic conductor anisotropic metasurface for generating orbital angular momentum of microwave with nearly perfect conversion efficiency. Journal of Applied Physics, 2016, 119, .	1.1	82
526	Statistics of pulsed Laguerre-Gaussian beams in a turbulent atmosphere. , 2016, , .		0
527	Mode-Division-Multiplexing of Multiple Bessel-Gaussian Beams Carrying Orbital-Angular-Momentum for Obstruction-Tolerant Free-Space Optical and Millimetre-Wave Communication Links. Scientific Reports, 2016, 6, 22082.	1.6	63
528	Multipartite entanglement in heterogeneous systems. Physical Review A, 2016, 94, .	1.0	38
529	Evolution of circularly polarized pulse through a nonlinear chiral fiber. , 2016, , .		0
530	Catenary nanostructures as compact Bessel beam generators. Scientific Reports, 2016, 6, 20524.	1.6	83
531	Free space propagation of concentric vortices through underwater turbid environments. Journal of Optics (United Kingdom), 2016, 18, 104004.	1.0	41
532	Retrieving orbital angular momentum distribution of light with plasmonic vortex lens. Scientific Reports, 2016, 6, 27265.	1.6	6
533	Uniformly circular-arrayed OAM mode antenna with radial power divider. , 2016, , .		1
534	Experimental realization of entanglement in multiple degrees of freedom between two quantum memories. Nature Communications, 2016, 7, 13514.	5.8	68
535	Design, fabrication, and measurement of reflective metasurface for orbital angular momentum vortex wave in radio frequency domain. Applied Physics Letters, 2016, 108, .	1.5	258
536	Turbulence mitigation scheme based on multiple-user detection in an orbitalâ€œangular-momentum multiplexed system. Chinese Physics B, 2016, 25, 114215.	0.7	4
537	Dual-polarization and dual-mode orbital angular momentum radio vortex beam generated by using reflective metasurface. Applied Physics Express, 2016, 9, 082202.	1.1	69
538	Generating multiple orbital angular momentum vortex beams using a metasurface in radio frequency domain. Applied Physics Letters, 2016, 108, .	1.5	243
539	High Orbital Angular Momentum Harmonic Generation. Physical Review Letters, 2016, 117, 265001.	2.9	66
540	Amplitude-phase imaging of pulsed broadband terahertz vortex beams generated by spiral phase plate. , 2016, , .		9
541	Quantum Communication with Photons. , 2016, , 455-482.		32
542	Vortex Laser based on III-V semiconductor metasurface: direct generation of coherent Laguerre-Gauss modes carrying controlled orbital angular momentum. Scientific Reports, 2016, 6, 38156.	1.6	46

#	ARTICLE	IF	CITATIONS
543	Full-duplex bidirectional data transmission link using twisted lights multiplexing over 1.1-km orbital angular momentum fiber. Scientific Reports, 2016, 6, 38181.	1.6	35
544	Independent optical vortices in free-space optical communications. , 2016, , .		0
545	Turbulence mitigation with MIMO equalization for orbital angular momentum multiplexing communication. , 2016, , .		7
546	Rotman Lens-Based Circular Array for Generating Five-mode OAM Radio Beams. Scientific Reports, 2016, 6, 27815.	1.6	45
547	Demonstration of reconfigurable joint orbital angular momentum mode and space switching. Scientific Reports, 2016, 6, 37331.	1.6	13
548	Multipath Effects in Millimetre-Wave Wireless Communication using Orbital Angular Momentum Multiplexing. Scientific Reports, 2016, 6, 33482.	1.6	37
549	Discrete dielectric reflectarray for generating mixed-mode OAM radio beams. , 2016, , .		0
550	A circular photonic crystal fiber supporting OAM mode transmission. , 2016, , .		2
551	Dividing orbital angular momentum of light. , 2016, , .		0
552	Orbital angular momentum photonic quantum interface. Light: Science and Applications, 2016, 5, e16019-e16019.	7.7	82
553	Polarization conversion when focusing cylindrically polarized vortex beams. Scientific Reports, 2016, 6, 6.	1.6	244
554	Implementing digital holograms to create and measure complex-plane optical fields. American Journal of Physics, 2016, 84, 106-112.	0.3	10
555	Invited Article: Division and multiplication of the state order for data-carrying orbital angular momentum beams. APL Photonics, 2016, 1, .	3.0	16
556	Picosecond optical vortex pulse illumination forms a monocrystalline silicon needle. Scientific Reports, 2016, 6, 21738.	1.6	106
557	Demonstration of Tunable Steering and Multiplexing of Two 28GHz Data Carrying Orbital Angular Momentum Beams Using Antenna Array. Scientific Reports, 2016, 6, 37078.	1.6	20
558	Highly intense monocycle terahertz vortex generation by utilizing a Tsurupica spiral phase plate. Scientific Reports, 2016, 6, 38880.	1.6	33
559	Dual-layered metalens for polarization-agile orbital angular momentum waves. , 2016, , .		4
560	Constructive spin-orbital angular momentum coupling can twist materials to create spiral structures in optical vortex illumination. Applied Physics Letters, 2016, 108, .	1.5	54

#	ARTICLE	IF	CITATIONS
561	Electrostatic twisted modes in multi-component dusty plasmas. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	5
562	Microscale vortex laser with controlled topological charge. <i>Chinese Physics B</i> , 2016, 25, 124211.	0.7	14
563	Manipulating optical vortices using integrated photonics. <i>Frontiers of Optoelectronics</i> , 2016, 9, 194-205.	1.9	5
564	Coding/decoding two-dimensional images with orbital angular momentum of light. <i>Optics Letters</i> , 2016, 41, 1490.	1.7	18
565	Survival of the orbital angular momentum of light through an extraordinary optical transmission process in the paraxial approximation. <i>Optics Express</i> , 2016, 24, 12007.	1.7	5
566	Wavelength-selective orbital angular momentum generation based on a plasmonic metasurface. <i>Nanoscale</i> , 2016, 8, 12267-12271.	2.8	20
567	Analytic calculation of vortex diffraction by a triangular aperture. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1175.	0.8	18
568	Measurement of the rotational Doppler frequency shift of a spinning object using a radio frequency orbital angular momentum beam. <i>Optics Letters</i> , 2016, 41, 2549.	1.7	55
569	Both channel coding and wavefront correction on the turbulence mitigation of optical communications using orbital angular momentum multiplexing. <i>Optics Communications</i> , 2016, 376, 92-98.	1.0	40
570	An interpretation and guide to single-pass beam shaping methods using SLMs and DMDs. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 065609.	1.0	17
571	Design and Analysis of a Microstructure Ring Fiber for Orbital Angular Momentum Transmission. <i>IEEE Photonics Journal</i> , 2016, 8, 1-12.	1.0	25
572	On-chip noninterference angular momentum multiplexing of broadband light. <i>Science</i> , 2016, 352, 805-809.	6.0	236
573	Vortex Electromagnetic Waves Generated by Using a Laddered Spiral Phase Plate and a Microstrip Antenna. <i>Electromagnetics</i> , 2016, 36, 102-110.	0.3	16
574	Vector beam generation via micrometer-scale photonic integrated circuits and plasmonic nano-antennae. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 360.	0.9	9
575	Study of Characteristics of Vortex Beam Produced by Fabricated Spiral Phase Plates. <i>IEEE Photonics Journal</i> , 2016, 8, 1-9.	1.0	9
576	Measurement of Orbital Angular Momentum by Self-Interference Using a Plasmonic Metasurface. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	1.0	8
577	Minimizing Polarization Multiplexing Angle in Polarization-Division-Multiplexed System. <i>IEEE Photonics Journal</i> , 2016, 8, 1-8.	1.0	2
578	Free-space optical communications using encoding of data on different orbital-angular-momentum modes. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
579	Modal Performance of Spiral Phase Plate VCSELs. IEEE Journal of Quantum Electronics, 2016, 52, 1-8.	1.0	11
580	Compensation of a distorted N-fold orbital angular momentum multicasting link using adaptive optics. Optics Letters, 2016, 41, 1482.	1.7	64
581	Transmission of three-polarization-multiplexed 25-Gb/s DPSK signals over 300-km fiber link. Optics Letters, 2016, 41, 1620.	1.7	8
582	Non-destructive identification of twisted light. Optics Letters, 2016, 41, 1574.	1.7	15
583	Realization of optimized quantum controlled-logic gate based on the orbital angular momentum of light. Optics Express, 2016, 24, 8186.	1.7	16
584	Comb mode converters based on sampled helical gratings. Electronics Letters, 2016, 52, 381-383.	0.5	0
585	Generation of vector beams at 1550Ånm telecommunications wavelength using a segmented q -plate. Optical Engineering, 2016, 55, 030502.	0.5	4
586	Generating and Separating Twisted Light by gradient rotation Split-Ring Antenna Metasurfaces. Nano Letters, 2016, 16, 3101-3108.	4.5	110
587	Performance evaluation of analog signal transmission in an integrated optical vortex emitter to 36-km few-mode fiber system. Optics Letters, 2016, 41, 1969.	1.7	29
588	Creation and detection of optical modes with spatial light modulators. Advances in Optics and Photonics, 2016, 8, 200.	12.1	479
589	Modulation instability of structured-light beams in negative-index metamaterials. Journal of Optics (United Kingdom), 2016, 18, 054010.	1.0	9
590	Multiplexing free-space channels using twisted light. Journal of Optics (United Kingdom), 2016, 18, 054015.	1.0	5
591	Programmable simulator for beam propagation in turbulent atmosphere. Optics Express, 2016, 24, 10000.	1.7	23
592	Generation of perfect vectorial vortex beams. Optics Letters, 2016, 41, 2205.	1.7	151
593	Fork gratings based on ferroelectric liquid crystals. Optics Express, 2016, 24, 5822.	1.7	21
594	Direct patterning of vortex generators on a fiber tip using a focused ion beam. Optics Letters, 2016, 41, 2133.	1.7	28
595	Terahertz All-Dielectric Magnetic Mirror Metasurfaces. ACS Photonics, 2016, 3, 1010-1018.	3.2	177
596	Atmospheric turbulence mitigation in an OAM-based MIMO free-space optical link using spatial diversity combined with MIMO equalization. Optics Letters, 2016, 41, 2406.	1.7	77

#	ARTICLE	IF	CITATIONS
597	Enabling the study of photons orbital angular momentum for optical communications. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	3
598	Controlling multiple filaments by relativistic optical vortex beams in plasmas. <i>Physical Review E</i> , 2016, 94, 033202.	0.8	18
599	Terahertz twisted beams generation in plasma. <i>European Physical Journal D</i> , 2016, 70, 1.	0.6	19
600	Orbital-angular-momentum-based reconfigurable optical switching and routing. <i>Photonics Research</i> , 2016, 4, B5.	3.4	31
601	Deflection of a Reflected Intense Vortex Laser Beam. <i>Physical Review Letters</i> , 2016, 117, 113904.	2.9	23
602	Design and Demonstration of a 400 Gb/s Indoor Optical Wireless Communications Link. <i>Journal of Lightwave Technology</i> , 2016, 34, 5332-5339.	2.7	51
603	Analysis to beam quality of partially coherent flat-topped vortex beams propagating through atmospheric turbulence. <i>Optik</i> , 2016, 127, 11342-11348.	1.4	4
604	OAM multiple transmission using uniform circular arrays: Numerical modeling and experimental verification with two digital television signals. <i>Radio Science</i> , 2016, 51, 645-658.	0.8	24
605	Receiver design for OWC orbital angular momentum communication in data center applications. , 2016, , .		3
606	Free-Space Radio Communication Employing OAM Multiplexing Based on Rotman Lens. <i>IEEE Microwave and Wireless Components Letters</i> , 2016, 26, 738-740.	2.0	35
607	Optical communications beyond orbital angular momentum. , 2016, , .		2
608	Topological charges shift of vectorial nonparaxial vortex beam. <i>Optik</i> , 2016, 127, 11644-11648.	1.4	2
609	Extension of Friedel's law to vortex-beam diffraction. <i>Physical Review A</i> , 2016, 94, .	1.0	14
610	Measuring OAM states of vortex beams with a sectorial screen. , 2016, , .		0
611	Digital control of spatial coherence in vortex beams. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
612	Plasmonic nano-slits assisted polarization selective detour phase meta-hologram. <i>Laser and Photonics Reviews</i> , 2016, 10, 978-985.	4.4	60
613	Horn antennas for generating radio waves bearing orbital angular momentum by using spiral phase plate. <i>IET Microwaves, Antennas and Propagation</i> , 2016, 10, 1420-1427.	0.7	41
614	Optical metrology with structured light. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
615	Delay in Space: Orbital Angular Momentum Beams Transmitting and Receiving in Radio Frequency. Electromagnetics, 2016, 36, 409-421.	0.3	6
616	32-Gbit/s 60-GHz millimeter-wave wireless communication using orbital angular momentum and polarization multiplexing. , 2016, , .		29
617	Orbital Angular Momentum Generation With Ultra-Compact Bragg-Assisted Silicon Microrings. IEEE Photonics Technology Letters, 2016, 28, 2355-2358.	1.3	9
618	Multiplexing and Amplification of $2\mu\text{m}$ Vortex Beams With a Ho:YAG Rod Amplifier. IEEE Photonics Technology Letters, 2016, 28, 2031-2034.	1.3	0
619	Are OAM states an optimal basis for spatially multiplexed free-space links?. , 2016, , .		1
620	Theoretical analysis and experimental verification on optical rotational Doppler effect. Optics Express, 2016, 24, 10050.	1.7	80
621	A circular photonic crystal fiber supporting 26 OAM modes. Optical Fiber Technology, 2016, 30, 184-189.	1.4	72
622	Influences of atmospheric turbulence effects on the orbital angular momentum spectra of vortex beams. Photonics Research, 2016, 4, B1.	3.4	124
623	Polarization-insensitive PAM-4-carrying free-space orbital angular momentum (OAM) communications. Optics Express, 2016, 24, 4258.	1.7	47
624	Hybrid optical CDMA-FSO communications network under spatially correlated gamma-gamma scintillation. Optics Express, 2016, 24, 16799.	1.7	33
625	Scalar-vector soliton fiber laser mode-locked by nonlinear polarization rotation. Optics Express, 2016, 24, 18764.	1.7	46
626	Performance Analysis of Core-Multiplexed Spectral Amplitude Coded OCDMA PON. Journal of Optical Communications and Networking, 2016, 8, 666.	3.3	14
627	Pre-turbulence compensation of orbital angular momentum beams based on a probe and the Gerchberg-Saxton algorithm. Optics Letters, 2016, 41, 3185.	1.7	70
628	All-fiber pre- and post-data exchange in km-scale fiber-based twisted lights multiplexing. Optics Letters, 2016, 41, 3896.	1.7	26
629	Broadband orbital angular momentum transmission using a hollow-core photonic bandgap fiber. Optics Letters, 2016, 41, 3591.	1.7	48
630	High-dimensional encoding based on classical nonseparability. Optics Express, 2016, 24, 15143.	1.7	38
631	Photonic crystal fiber for supporting 26 orbital angular momentum modes. Optics Express, 2016, 24, 17285.	1.7	74
632	A Hankel transform distribution algorithm for paraxial wavefields with an application to free-space optical beam propagation. Journal of Optics (United Kingdom), 2016, 18, 095605.	1.0	4

#	ARTICLE	IF	CITATIONS
633	Spiral phase plate contrast in optical and electron microscopy. <i>Physical Review A</i> , 2016, 94, .	1.0	13
634	On the resilience of scalar and vector vortex modes in turbulence. <i>Optics Express</i> , 2016, 24, 18105.	1.7	69
635	Orbital Angular Momentum-Entanglement Frequency Transducer. <i>Physical Review Letters</i> , 2016, 117, 103601.	2.9	70
636	Experimental generation of amplitude squeezed vector beams. <i>Optics Express</i> , 2016, 24, 12385.	1.7	11
637	Advances in communications using optical vortices. <i>Photonics Research</i> , 2016, 4, B14.	3.4	558
638	OAM radio waves generation using dielectric resonator antenna array. , 2016, , .		5
639	Perfect optical vortex array with controllable diffraction order and topological charge. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1836.	0.8	79
640	Excitation and separation of vortex modes in twisted air-core fiber. <i>Optics Express</i> , 2016, 24, 8310.	1.7	54
641	Coded Orbital Angular Momentum Modulation and Multiplexing Enabling Ultra-High-Speed Free-Space Optical Transmission. <i>Signals and Communication Technology</i> , 2016, , 363-385.	0.4	8
642	General theorem on the divergence of vortex beams. <i>Physical Review A</i> , 2016, 94, .	1.0	19
643	Non-destructive splitter of twisted light based on modes splitting in a ring cavity. <i>Optics Express</i> , 2016, 24, 2166.	1.7	1
644	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. <i>Optics Express</i> , 2016, 24, 3168.	1.7	39
645	1 $\hat{\mu}$ Å— 144 Tb/s free-space IM-DD transmission employing OAM multiplexing and PDM. <i>Optics Express</i> , 2016, 24, 3967.	1.7	34
646	Self-mode-locked Laguerre-Gaussian beam with staged topological charge by thermal-optical field coupling. <i>Optics Express</i> , 2016, 24, 5514.	1.7	17
647	Pancharatnam-Berry optical element sorter of full angular momentum eigenstate. <i>Optics Express</i> , 2016, 24, 6689.	1.7	30
648	Spectrally efficient free-space optical communications employing orbital angular momentum multiplexing. , 2016, , .		1
649	Free Space Optic and mmWave Communications: Technologies, Challenges and Applications. <i>IEICE Transactions on Communications</i> , 2016, E99.B, 1243-1254.	0.4	28
650	Parallel generation of multiple first-order vector beams with a polarization grating and a q-plate device. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 122202.	0.8	5

#	ARTICLE	IF	CITATIONS
651	Frequency conversion of structured light. Scientific Reports, 2016, 6, 21390.	1.6	31
652	Tunable generation and angular steering of a millimeter-wave orbital-angular-momentum beam using differential time delays in a circular antenna array. , 2016, , .		14
653	Plane spiral orbital angular momentum wave and its applications. , 2016, , .		9
654	Generation of radio beams carrying OAM basing on coaxial waveguide. , 2016, , .		1
655	Scattering of an electromagnetic vortex Bessel beam by a gyrotropic cylinder perpendicular to the beam symmetry axis. , 2016, , .		3
656	Experimentally observed decay of high-dimensional entanglement through turbulence. Physical Review A, 2016, 94, .	1.0	30
657	Pure Dielectric Waveguides Enable Compact, Ultrabroadband Wave Plates. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	5
658	Compton Scattered X-Gamma Rays with Orbital Momentum. Physical Review Letters, 2016, 117, 123903.	2.9	46
659	Photonic integrated devices for exploiting the orbital angular momentum of light in optical communications. Frontiers of Optoelectronics, 2016, 9, 518-525.	1.9	3
660	Beam propagation of efficient frequency-doubled optical vortices. Applied Optics, 2016, 55, 5263.	2.1	7
661	Wavelength-selective orbital-angular-momentum beam generation using MEMS tunable Fabry-Pérot filter. Optics Letters, 2016, 41, 3249.	1.7	21
662	Local orbital angular momentum revealed by spiral-phase-plate imaging in transmission-electron microscopy. Physical Review A, 2016, 93, .	1.0	12
663	Unusual quantum Talbot effect based on the orbital angular momentum of photons. Physical Review A, 2016, 93, .	1.0	5
664	Generation of Equal-Energy Orbital Angular Momentum Beams via Photopatterned Liquid Crystals. Physical Review Applied, 2016, 5, .	1.5	55
665	Coherent dynamics of exciton orbital angular momentum transferred by optical vortex pulses. Physical Review B, 2016, 93, .	1.1	30
666	Wigner Distribution of Twisted Photons. Physical Review Letters, 2016, 116, 130402.	2.9	28
667	Digital generation of partially coherent vortex beams. Optics Letters, 2016, 41, 3471.	1.7	58
668	Luminescent detector for free-space optical communication. Optica, 2016, 3, 787.	4.8	83

#	ARTICLE	IF	CITATIONS
669	Experimental demonstration of a 200-Gbit/s free-space optical link by multiplexing Laguerre-Gaussian beams with different radial indices. <i>Optics Letters</i> , 2016, 41, 3447.	1.7	85
670	Encoding and decoding of digital spiral imaging based on bidirectional transformation of light's spatial eigenmodes. <i>Optics Letters</i> , 2016, 41, 2843.	1.7	7
671	Two monopole antennas for generating radio OAM waves in circular waveguide. , 2016, , .		6
672	Hybrid curved nano-structured micro-optical elements. <i>Optics Express</i> , 2016, 24, 16988.	1.7	25
673	Creation of twisted terahertz waves carrying orbital angular momentum via a plasma vortex. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 295107.	1.3	28
674	Propagation properties of an optical vortex carried by a Bessel-Gaussian beam in anisotropic turbulence. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 1442.	0.8	70
675	Encoding information using Laguerre Gaussian modes over free space turbulence media. <i>Optics Letters</i> , 2016, 41, 3086.	1.7	76
676	Hologram of a single photon. <i>Nature Photonics</i> , 2016, 10, 576-579.	15.6	78
677	Precisely measuring the orbital angular momentum of beams via weak measurement. <i>Physical Review A</i> , 2016, 93, .	1.0	14
678	Merging Geometric Phase and Plasmon Retardation Phase in Continuously Shaped Metasurfaces for Arbitrary Orbital Angular Momentum Generation. <i>ACS Photonics</i> , 2016, 3, 2022-2029.	3.2	189
679	Meta-q-plate for complex beam shaping. <i>Scientific Reports</i> , 2016, 6, 25528.	1.6	86
680	Twisted light transmission over 143 km. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13648-13653.	3.3	276
681	Highly directional vortex beam emitters based on Archimedean spiral adiabatic waveguides. , 2016, , .		0
682	A coaxially integrated photonic orbital angular momentum beam multiplexer. , 2016, , .		1
683	New method for generating Orbital Angular Momentum vortex beams in the radio frequency domain. , 2016, , .		1
684	A dual-channel 60 GHz communications link using patch antenna arrays to generate data-carrying orbital-angular-momentum beams. , 2016, , .		22
685	Subluminal group velocity and dispersion of Laguerre Gauss beams in free space. <i>Scientific Reports</i> , 2016, 6, 26842.	1.6	26
686	Multicasting of signal-carrying Gaussian mode to multiple orbital angular momentum (OAM) modes. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0

#	ARTICLE	IF	CITATIONS
687	Orbital angular momentum (OAM) generation by composite PEC-PMC metasurfaces in microwave regime. , 2016, , .		2
688	Formation of nonclassical states of vortex solitons in optical fibers with quantum dots. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2016, 121, 729-735.	0.2	2
689	Vortex beam generation based on a fiber array combining and propagation through a turbulent atmosphere. Proceedings of SPIE, 2016, , .	0.8	2
690	Amplification and generation of ultra-intense twisted laser pulses via stimulated Raman scattering. Nature Communications, 2016, 7, 10371.	5.8	153
691	The Higher Order Statistics of OAM Modal Amplitudes Under Atmosphere Turbulence. IEEE Photonics Technology Letters, 2016, 28, 2653-2656.	1.3	13
692	Submersed free-space propagation of beams carrying orbital angular momentum. Proceedings of SPIE, 2016, , .	0.8	3
693	Generation of OAM waves using metamaterials substrate antenna. Proceedings of SPIE, 2016, , .	0.8	0
694	Generation of intense femtosecond optical vortex pulses with blazed-phase grating in chirped-pulse amplification system of Ti:sapphire laser. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	17
695	The Capacity Gain of Orbital Angular Momentum Based Multiple-Input-Multiple-Output System. Scientific Reports, 2016, 6, 25418.	1.6	68
696	Orbital-angular-momentum-based electromagnetic vortex imaging by least-squares method. , 2016, , .		7
697	Synthesis and characterization of attosecond light vortices in the extreme ultraviolet. Nature Communications, 2016, 7, 12583.	5.8	123
698	Advanced and flexible multi-carrier receiver architecture for high-count multi-core fiber based space division multiplexed applications. Scientific Reports, 2016, 6, 27465.	1.6	14
699	Diffraction of short-pulse Laguerreâ€“Gaussian beams. Atmospheric and Oceanic Optics, 2016, 29, 441-446.	0.6	7
700	Optical communication beyond orbital angular momentum. Scientific Reports, 2016, 6, 27674.	1.6	179
701	Millimetre Wave with Rotational Orbital Angular Momentum. Scientific Reports, 2016, 6, 31921.	1.6	46
702	Propagation of elegant vortex Hermite-Gaussian beams in turbulent atmosphere. Proceedings of SPIE, 2016, , .	0.8	7
703	Polymorphic beams and Nature inspired circuits for optical current. Scientific Reports, 2016, 6, 35341.	1.6	43
704	Generation of cylindrical vector beams on the basis of uniaxial crystals and various types of DOEs. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
705	120 Gbit/s 2-Mode Vector-Modes-Division-Multiplexing DD-OFDM-32QAM Free-Space Transmission. IEEE Photonics Journal, 2016, 8, 1-8.	1.0	12
706	Emulating and mitigating atmospheric effects in free-space OAM-based communication links. , 2016, , .		0
707	Integrated photonic emitter with a wide switching range of orbital angular momentum modes. Scientific Reports, 2016, 6, 22512.	1.6	32
708	High-dimensional entanglement between distant atomic-ensemble memories. Light: Science and Applications, 2016, 5, e16157-e16157.	7.7	64
709	Intense harmonics generation with customized photon frequency and optical vortex. New Journal of Physics, 2016, 18, 083046.	1.2	10
710	Experimental demonstration of 25-Gbit/s data information transfer over a 2-km orbital angular momentum (OAM) fiber link based on amplitude-to-OAM modulation mapping. , 2016, , .		0
711	Group velocity dispersion measurements of 3 OAM states in 1 kilometer ring-core fiber link. , 2016, , .		0
712	Simultaneous determination of the sign and the magnitude of the topological charge of a partially coherent vortex beam. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	20
713	Tunable cavity-enhanced photon pairs source in Hermite-Gaussian mode. AIP Advances, 2016, 6, 025114.	0.6	4
714	Diffraction pattern by nanometric thin films under illumination of an orbital angular momentum beam with integer topological charge. Journal of Physics: Conference Series, 2016, 687, 012026.	0.3	0
715	Advances in Full Control of Electromagnetic Waves with Metasurfaces. Advanced Optical Materials, 2016, 4, 818-833.	3.6	306
716	Enhancement of directivity of an OAM antenna by using Fabry-Perot cavity. , 2016, , .		8
717	Local topological charge analysis of electromagnetic vortex beam based on empirical mode decomposition. Optics Express, 2016, 24, 5423.	1.7	6
718	Measurement of orbital angular momentum spectra of multiplexing optical vortices. Optics Express, 2016, 24, 6240.	1.7	62
719	Changes in orbital-angular-momentum modes of a propagated vortex Gaussian beam through weak-to-strong atmospheric turbulence. Optics Express, 2016, 24, 6959.	1.7	51
720	Dynamic mode evolution and phase transition of twisted light in nonlinear process. Journal of Modern Optics, 2016, 63, 2271-2278.	0.6	11
721	Discrimination of orbital angular momentum modes of the terahertz vortex beam using a diffractive mode transformer. Optics Express, 2016, 24, 12534.	1.7	30
722	Wireless OAM transmission system based on elliptical microstrip patch antenna. Optics Express, 2016, 24, 11531.	1.7	25

#	ARTICLE	IF	CITATIONS
723	Radio channel multiplexing with superpositions of opposite-sign OAM modes. AEU - International Journal of Electronics and Communications, 2016, 70, 990-997.	1.7	22
724	Recent progress on high-speed optical transmission. Digital Communications and Networks, 2016, 2, 65-76.	2.7	51
725	Focal shift of a focused partially coherent Laguerre-Gaussian beam of all orders. Journal of Modern Optics, 2016, 63, 2226-2234.	0.6	7
726	Characterization of LDPC-coded orbital angular momentum modes transmission and multiplexing over a 50-km fiber. Optics Express, 2016, 24, 11716.	1.7	96
727	Vortex phase-induced changes of the statistical properties of a partially coherent radially polarized beam. Optics Express, 2016, 24, 13714.	1.7	42
728	Half-mode substrate integrated waveguide antenna for generating multiple orbital angular momentum modes. Electronics Letters, 2016, 52, 684-686.	0.5	41
729	Design challenges and guidelines for free-space optical communication links using orbital-angular-momentum multiplexing of multiple beams. Journal of Optics (United Kingdom), 2016, 18, 074014.	1.0	34
730	Flat Helical Nanosieves. Advanced Functional Materials, 2016, 26, 5255-5262.	7.8	64
731	Localization and migration of phase singularities in the edge-diffracted optical-vortex beams. Journal of Optics (United Kingdom), 2016, 18, 024011.	1.0	12
732	Experimental characterization of a 400 Gbit/s orbital angular momentum multiplexed free-space optical link over 120 m. Optics Letters, 2016, 41, 622.	1.7	136
733	Auto-focusing accelerating hyper-geometric laser beams. Journal of Optics (United Kingdom), 2016, 18, 025610.	1.0	22
734	Measuring azimuthal and radial mode indices of a partially coherent vortex field. Journal of Optics (United Kingdom), 2016, 18, 015604.	1.0	19
735	Orbital-Angular-Momentum Polarization Mode Dispersion in Optical Fibers. Journal of Lightwave Technology, 2016, 34, 1661-1671.	2.7	31
736	Nonlinear Beam Shaping with Plasmonic Metasurfaces. ACS Photonics, 2016, 3, 117-123.	3.2	164
737	Generation of integer and fractional vector beams with q-plates encoded onto a spatial light modulator. Optics Letters, 2016, 41, 1305.	1.7	50
738	Optical array generator based on blue phase liquid crystal Dammann grating. Optical Materials Express, 2016, 6, 1087.	1.6	30
739	Vortex stabilization by means of spatial solitons in nonlocal media. Journal of Optics (United Kingdom), 2016, 18, 024011.	1.0	33
740	Concentric vortex beam amplification: experiment and simulation. Optics Express, 2016, 24, 1658.	1.7	24

#	ARTICLE	IF	CITATIONS
741	A multi-orbital-angular-momentum multi-ring micro-structured fiber with ultra-high-density and low-level crosstalk. <i>Optics Communications</i> , 2016, 368, 27-33.	1.0	35
742	Physical-Layer Security in Orbital Angular Momentum Multiplexing Free-Space Optical Communications. <i>IEEE Photonics Journal</i> , 2016, 8, 1-10.	1.0	78
743	Observation of subluminal twisted light in vacuum. <i>Optica</i> , 2016, 3, 351.	4.8	55
744	Longitudinal field characterization of converging terahertz vortices with linear and circular polarizations. <i>Optics Express</i> , 2016, 24, 7178.	1.7	28
745	Point-to-multipoint holographic beamsteering techniques for indoor optical wireless communications. <i>Proceedings of SPIE</i> , 2016, , .	0.8	8
746	Optical gradient force of linearly polarized sine-azimuthal Lorentz beam with one on-axis optical vortex. <i>Optik</i> , 2016, 127, 4193-4199.	1.4	1
747	Simultaneous and spatially separated detection of multiple orbital angular momentum states. <i>Optics Communications</i> , 2016, 368, 141-149.	1.0	11
748	Integrating ± 24 Dammann gratings to detect orbital angular momentum states of beams with the range of ± 24 . <i>Applied Optics</i> , 2016, 55, 1514.	2.1	45
749	Demonstration of a 280 Gbit/s free-space space-division-multiplexing communications link utilizing plane-wave spatial multiplexing. <i>Optics Letters</i> , 2016, 41, 851.	1.7	17
750	All-optical and digital non-linear compensation algorithms in flex-coherent grouped and un-grouped contiguous spectrum based networks. <i>Optical and Quantum Electronics</i> , 2016, 48, 1.	1.5	0
751	Channel Capacity of the OAM-Based Free-Space Optical Communication Links With Bessel-Gauss Beams in Turbulent Ocean. <i>IEEE Photonics Journal</i> , 2016, 8, 1-11.	1.0	83
752	Gaussian laser beam transformation into an optical vortex beam by helical lens. <i>Journal of Modern Optics</i> , 2016, 63, 164-176.	0.6	17
753	Data transmission with twisted light through a free-space to fiber optical communication link. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 03LT01.	1.0	29
754	Sensitive Orbital Angular Momentum (OAM) Monitoring by Using Gradually Changing-Period Phase Grating in OAM-Multiplexing Optical Communication Systems. <i>IEEE Photonics Journal</i> , 2016, 8, 1-6.	1.0	13
755	A Flat-Lensed Spiral Phase Plate Based on Phase-Shifting Surface for Generation of Millimeter-Wave OAM Beam. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 1156-1158.	2.4	120
756	Parallel Detection of OAM States Carried by Coaxial Bessel Beams. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 315-318.	1.3	7
757	Controlled generation of higher-order Poincaré sphere beams from a laser. <i>Nature Photonics</i> , 2016, 10, 327-332.	15.6	482
758	Diffraction gratings generating orders with selective states of polarization. <i>Optics Express</i> , 2016, 24, 907.	1.7	26

#	ARTICLE	IF	CITATIONS
759	Performance of a q-plate tunable retarder in reflection for the switchable generation of both first- and second-order vector beams. <i>Optics Letters</i> , 2016, 41, 13.	1.7	45
760	Reversible orbital angular momentum photon-phonon conversion. <i>Optica</i> , 2016, 3, 212.	4.8	41
761	Orbital-angular-momentum-multiplexed free-space optical communication link using transmitter lenses. <i>Applied Optics</i> , 2016, 55, 2098.	2.1	27
762	Generation and detection of broadband multi-channel orbital angular momentum by micrometer-scale meta-reflectarray. <i>Optics Express</i> , 2016, 24, 212.	1.7	32
763	A New Approach to the Link Budget Concept for an OAM Communication Link. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 568-571.	2.4	31
764	On-chip discrimination of orbital angular momentum of light with plasmonic nanoslits. <i>Nanoscale</i> , 2016, 8, 2227-2233.	2.8	76
766	[INVITED] Tilted fiber grating mechanical and biochemical sensors. <i>Optics and Laser Technology</i> , 2016, 78, 19-33.	2.2	231
767	Generation and Manipulation of Orbital Angular Momentum by All-Dielectric Metasurfaces. <i>Plasmonics</i> , 2016, 11, 337-344.	1.8	22
768	Generation of Orbital Angular Momentum Radio Waves Based on Dielectric Resonator Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 385-388.	2.4	48
769	Vortex operation in Er:LuYAG crystal laser at $\lambda = 1.6 \mu\text{m}$. <i>Optical Materials</i> , 2017, 71, 31-34.	1.7	8
770	Measuring Orbital Angular Momentum (OAM) States of Vortex Beams with Annular Gratings. <i>Scientific Reports</i> , 2017, 7, 40781.	1.6	103
771	Mode Division Multiplexing Communication Using Microwave Orbital Angular Momentum: An Experimental Study. <i>IEEE Transactions on Wireless Communications</i> , 2017, 16, 1308-1318.	6.1	209
772	Trellis-Coded OAM-QAM Union Modulation with Single-Point Receiver. <i>IEEE Communications Letters</i> , 2017, 21, 690-693.	2.5	12
773	Energy and angular momentum transfers from an electromagnetic wave to a copper ring in the UHF band. <i>Comptes Rendus Physique</i> , 2017, 18, 137-143.	0.3	9
774	Control of Vortex Helicity With a Quarter-Wave Plate in an Er:YAG Ceramic Solid State Laser. <i>IEEE Photonics Journal</i> , 2017, 9, 1-8.	1.0	4
775	Fast-Switchable OAM-Based High Capacity Density Optical Router. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	7
776	Compact and high-resolution optical orbital angular momentum sorter. <i>APL Photonics</i> , 2017, 2, .	3.0	49
777	Orbital angular momentum mode division filtering for photon-phonon coupling. <i>Scientific Reports</i> , 2017, 7, 40526.	1.6	11

#	ARTICLE	IF	CITATIONS
778	Recent advances in high-capacity free-space optical and radio-frequency communications using orbital angular momentum multiplexing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20150439.	1.6	131
779	Experimental Array for Generating Dual Circularly-Polarized Dual-Mode OAM Radio Beams. Scientific Reports, 2017, 7, 40099.	1.6	51
780	Micro-buried spiral zone plate in a lithium niobate crystal. Applied Physics Letters, 2017, 110, 041102.	1.5	8
781	Planar Efficient Metasurface for Vortex Beam Generating and Converging in Microwave Region. IEEE Transactions on Magnetics, 2017, 53, 1-4.	1.2	13
782	Electrically optical phase controlling for millimeter wave orbital angular momentum multi-modulation communication. Optics Communications, 2017, 393, 49-55.	1.0	11
783	Manipulating orbital angular momentum of light with tailored in-plane polarization states. Scientific Reports, 2017, 7, 41001.	1.6	20
784	Degrees of Freedom of OAM-Based Line-of-Sight Radio Systems. IEEE Transactions on Antennas and Propagation, 2017, 65, 1996-2008.	3.1	35
785	Offset tolerance of an orbital angular momentum optical communication system with angular deflection. Optics Communications, 2017, 393, 34-39.	1.0	14
786	Multichannel Polarization-Controllable Superpositions of Orbital Angular Momentum States. Advanced Materials, 2017, 29, 1603838.	11.1	213
787	Effect of pump depletion and cross-focusing on twisted terahertz radiation generation. Physics of Plasmas, 2017, 24, .	0.7	22
788	Pulse, polarization and topology shaping of polariton fluids. , 2017, , .		0
789	Hollow-core photonic bandgap fibers for orbital angular momentum applications. Journal of Optics (United Kingdom), 2017, 19, 045704.	1.0	4
790	Off-axis points encoding/decoding with orbital angular momentum spectrum. Scientific Reports, 2017, 7, 43757.	1.6	10
791	Orbital Angular Momentum Shift Keying Based Optical Communication System. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	77
792	Effective factors on twisted terahertz radiation generation in a rippled plasma. Journal of Plasma Physics, 2017, 83, .	0.7	21
793	Limitations in photoionization of helium by an extreme ultraviolet optical vortex. Physical Review A, 2017, 95, .	1.0	21
794	OAM mode of the Hankel-Bessel vortex beam in weak to strong turbulent link of marine-atmosphere. Laser Physics, 2017, 27, 045201.	0.6	15
795	Interaction of Ultraintense Laser Vortices with Plasma Mirrors. Physical Review Letters, 2017, 118, 033902.	2.9	86

#	ARTICLE	IF	CITATIONS
796	Orbital Angular Momentum Divider of Light. IEEE Photonics Journal, 2017, 9, 1-8.	1.0	7
797	Computer-generated holograms for fiber optical communication with spatial-division multiplexing. Applied Optics, 2017, 56, A31.	2.1	12
798	Experimental test of single-system steering and application to quantum communication. Physical Review A, 2017, 95, .	1.0	8
799	Displacements and evolution of optical vortices in edge-diffracted Laguerre-Gaussian beams. Journal of Optics (United Kingdom), 2017, 19, 055605.	1.0	9
800	Reading the Orbital Angular Momentum of Light Using Plasmonic Nanoantennas. ACS Photonics, 2017, 4, 891-896.	3.2	35
801	A Silicon Microring Optical 2 \times 2 Switch Exploiting Orbital Angular Momentum for Interconnection Networks up to 20 Gbaud. Journal of Lightwave Technology, 2017, 35, 3142-3148.	2.7	12
802	Beam wander relieved orbital angular momentum communication in turbulent atmosphere using Bessel beams. Scientific Reports, 2017, 7, 42276.	1.6	55
803	Optical Orbital Angular Momentum Amplifier Based on an Air-Hole Erbium-Doped Fiber. Journal of Lightwave Technology, 2017, 35, 430-436.	2.7	53
804	A design strategy of the circular photonic crystal fiber supporting good quality orbital angular momentum mode transmission. Optics Communications, 2017, 397, 59-66.	1.0	81
805	Controlling the orbital angular momentum of high harmonic vortices. Nature Communications, 2017, 8, 14970.	5.8	124
806	Generation and Transmission of OAM-Carrying Vortex Beams Using Circular Antenna Array. IEEE Transactions on Antennas and Propagation, 2017, 65, 2940-2949.	3.1	84
807	Concentric Perfect Optical Vortex Beam Generated by a Digital Micromirrors Device. IEEE Photonics Journal, 2017, 9, 1-7.	1.0	14
808	Self-reconstruction of the degree of coherence of a partially coherent vortex beam obstructed by an opaque obstacle. Applied Physics Letters, 2017, 110, .	1.5	59
809	Phase Mode Analysis of Radio Beams Carrying Orbital Angular Momentum. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1127-1130.	2.4	16
810	Orbital angular momentum reflectarray antenna with multiple modes. , 2017, , .		3
811	Coherent Separation Detection for Orbital Angular Momentum Multiplexing in Free-Space Optical Communications. IEEE Photonics Journal, 2017, 9, 1-11.	1.0	10
812	Let's Do the Twist!: Radiators, Experiments, and Techniques to Generate Twisted Waves at Radio Frequencies. IEEE Microwave Magazine, 2017, 18, 88-96.	0.7	27
813	Orbital angular momentum complex spectrum analyzer for vortex light based on the rotational Doppler effect. Light: Science and Applications, 2017, 6, e16251-e16251.	7.7	144

#	ARTICLE	IF	CITATIONS
814	Theoretical analysis of hollow ring-core optical fibre for transmitting orbital angular momentum modes. <i>Journal of Modern Optics</i> , 2017, 64, 1818-1832.	0.6	11
815	Optimal quantum detection strategy for super-resolving angular-rotation measurement. <i>Applied Physics B: Lasers and Optics</i> , 2017, 123, 1.	1.1	3
816	Digitalized Geometric Phases for Parallel Optical Spin and Orbital Angular Momentum Encoding. <i>ACS Photonics</i> , 2017, 4, 1333-1338.	3.2	93
817	Engineering of orbital angular momentum supermodes in coupled optical waveguides. <i>Scientific Reports</i> , 2017, 7, 44057.	1.6	13
818	95.16-Gb/s Mode-Division-Multiplexing Signal Transmission in Free-Space Enabled by Effective-Conversion of Vector Beams. <i>IEEE Photonics Journal</i> , 2017, 9, 1-9.	1.0	8
819	Novel complementary metasurfaces for the orbital angular momentum generation. , 2017, , .		1
820	Single-frequency computational imaging using OAM-carrying electromagnetic wave. <i>Journal of Applied Physics</i> , 2017, 121, .	1.1	33
821	Chromatic Dispersion Diagnosis of Three OAM States in 5.58 Kilometer Ring-Core Fiber Link. <i>IEEE Photonics Journal</i> , 2017, 9, 1-7.	1.0	1
822	Astigmatism inducing the degenerate effect in nearly hemispherical cavities: generation of three-dimensional structured light. <i>Proceedings of SPIE</i> , 2017, , .	0.8	0
823	Detecting the topological charge of a vortex beam by an arc slit diffraction. <i>International Journal of Modern Physics B</i> , 2017, 31, 1750172.	1.0	2
824	Theory and applications of free-electron vortex states. <i>Physics Reports</i> , 2017, 690, 1-70.	10.3	227
825	Nonparaxial propagation properties of an anomalous hollow beam with orbital angular momentum. <i>Journal of Modern Optics</i> , 2017, 64, 1960-1970.	0.6	1
826	Turbulence mitigation scheme based on spatial diversity in orbital-angular-momentum multiplexed system. <i>Optics Communications</i> , 2017, 400, 123-127.	1.0	20
827	Characterization of Red/Green/Blue Orbital Angular Momentum Modes in Conventional G.652 Fiber. <i>IEEE Journal of Quantum Electronics</i> , 2017, 53, 1-14.	1.0	7
828	Abruptly Focusing and Defocusing Needles of Light and Closed-Form Electromagnetic Wavepackets. <i>ACS Photonics</i> , 2017, 4, 1131-1137.	3.2	35
829	Adaptive free-space optical communications through turbulence using self-healing Bessel beams. <i>Scientific Reports</i> , 2017, 7, 43233.	1.6	102
830	Basis-neutral Hilbert-space analyzers. <i>Scientific Reports</i> , 2017, 7, 44995.	1.6	13
831	Programmable holographic technique for implementing unitary and nonunitary transformations. <i>Physical Review A</i> , 2017, 95, .	1.0	18

#	ARTICLE	IF	CITATIONS
832	Vortex-MEMS filters for wavelength-selective orbital-angular-momentum beam generation. Proceedings of SPIE, 2017, , .	0.8	0
833	Low-noise III-V metasurface based semiconductor vortex laser and rotational Doppler velocimetry. , 2017, , .		0
834	Helmholtz Natural Modes: the universal and discrete spatial fabric of electromagnetic wavefields. New Journal of Physics, 2017, 19, 013021.	1.2	3
835	The Orbital Angular Momentum Spreading for Cylindrical Vector Beams in Turbulent Atmosphere. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	21
836	Generation of Femtosecond Optical Vortex Beams in All-Fiber Mode-Locked Fiber Laser Using Mode Selective Coupler. Journal of Lightwave Technology, 2017, 35, 2161-2166.	2.7	143
837	Kinetic study of electrostatic twisted waves instability in nonthermal dusty plasmas. Physics of Plasmas, 2017, 24, 033701.	0.7	19
838	Experimental demonstration of a dual-channel E-band communication link using commercial impulse radios with orbital angular momentum multiplexing. , 2017, , .		8
839	Merging plasmonics and metamaterials by two-dimensional subwavelength structures. Journal of Materials Chemistry C, 2017, 5, 4361-4378.	2.7	75
840	Simple and Nondestructive On-Chip Detection of Optical Orbital Angular Momentum through a Single Plasmonic Nanohole. ACS Photonics, 2017, 4, 996-1002.	3.2	21
841	Revealing the subfemtosecond dynamics of orbital angular momentum in nanoplasmonic vortices. Science, 2017, 355, 1187-1191.	6.0	217
842	Bifocal Optical-Vortex Lens with Sorting of the Generated Nonseparable Spin-Orbital Angular-Momentum States. Physical Review Applied, 2017, 7, .	1.5	41
843	Line-of-Sight Millimeter-Wave Communications Using Orbital Angular Momentum Multiplexing Combined With Conventional Spatial Multiplexing. IEEE Transactions on Wireless Communications, 2017, 16, 3151-3161.	6.1	130
844	Properties of a strongly focused Gaussian beam with an off-axis vortex. Optics Communications, 2017, 389, 275-282.	1.0	32
845	Generating and Measuring Tunable Orbital Angular Momentum Radio Beams With Digital Control Method. IEEE Transactions on Antennas and Propagation, 2017, 65, 899-902.	3.1	29
846	High-Efficiency and High-Polarization Separation Reflectarray Element for OAM-Folded Antenna Application. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1357-1360.	2.4	48
847	Volumetric Generation of Optical Vortices with Metasurfaces. ACS Photonics, 2017, 4, 338-346.	3.2	108
848	Projecting light beams with 3D waveguide arrays. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 014002.	0.6	1
849	Generation and Validation of Topological Charges of High-Power Gyrotron Orbital Angular Momentum Beams From Phase Retrieval Algorithm. IEEE Transactions on Terahertz Science and Technology, 2017, 7, 164-171.	2.0	4

#	ARTICLE	IF	CITATIONS
850	Measuring the Orbital Angular Momentum State of Light by Coordinate Transformation. IEEE Photonics Technology Letters, 2017, 29, 86-89.	1.3	9
851	Perfect waveguide mode conversion via zero index metamaterials. Journal of Optics (United Kingdom), 2017, 19, 015102.	1.0	1
852	Arbitrary spin-to-orbital angular momentum conversion of light. Science, 2017, 358, 896-901.	6.0	828
853	Changes in the degree of polarization of random electromagnetic GSM vortex beams in biological tissues. Optik, 2017, 149, 95-103.	1.4	5
854	Angular momentum transport with twisted exciton wave packets. Physical Review B, 2017, 96, .	1.1	6
855	Design and verification of monopole patch antenna systems to generate orbital angular momentum waves. AIP Advances, 2017, 7, .	0.6	8
856	Impact of the crosstalk in space-division multiplexing. , 2017, , .		2
857	Low On Air. , 2017, , .		2
858	Broadband Vortex Beam Generation Using Multimode Pancharatnam-Berry Metasurface. IEEE Transactions on Antennas and Propagation, 2017, 65, 7378-7382.	3.1	178
859	Multifurcate Assembly of Slanted Micropillars Fabricated by Superposition of Optical Vortices and Application in High-Efficiency Trapping Microparticles. Advanced Functional Materials, 2017, 27, 1701939.	7.8	24
860	Biphoton states in correlated turbulence. Physical Review A, 2017, 95, .	1.0	5
861	Vortex type oscillations in a multi-component plasma. Results in Physics, 2017, 7, 4065-4070.	2.0	6
862	Single-shot measurement of the orbital-angular-momentum spectrum of light. Nature Communications, 2017, 8, 1054.	5.8	53
863	Wavelength-versatile optical vortex lasers. Journal of Optics (United Kingdom), 2017, 19, 123002.	1.0	82
864	Sharing a Common Origin Between the Rotational and Linear Doppler Effects. Laser and Photonics Reviews, 2017, 11, 1700183.	4.4	81
865	Evolution of orbital angular momentum mode of the autofocusing Hypergeometric-Gaussian beams through moderate-to-strong anisotropic non-Kolmogorov turbulence. Optics Communications, 2017, 405, 66-72.	1.0	20
866	Microwave Orbital Angular Momentum Mode Generation and Multiplexing Using a Waveguide Butler Matrix. ETRI Journal, 2017, 39, 336-344.	1.2	13
867	Light-Patterned Crystallographic Direction of a Self-Organized 3D Soft Photonic Crystal. Advanced Materials, 2017, 29, 1703165.	11.1	120

#	ARTICLE	IF	CITATIONS
868	Orbital-Angular-Momentum Mode Selection by Rotationally Symmetric Superposition of Chiral States with Application to Electron Vortex Beams. <i>Physical Review Letters</i> , 2017, 119, 094802.	2.9	64
869	Optically Controlled Orbital Angular Momentum Generation in a Polaritonic Quantum Fluid. <i>Physical Review Letters</i> , 2017, 119, 113903.	2.9	2
870	Order-Controllable Cylindrical Vector Vortex Beam Generation by Using Spatial Light Modulator and Cascaded Metasurfaces. <i>IEEE Photonics Journal</i> , 2017, 9, 1-10.	1.0	29
871	Multiplexing 200 spatial modes with a single hologram. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 113501.	1.0	48
872	Generation of closed-packed optical vortex beams using two-level pure-phase diffractive multiplexer. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
873	Single orbital angular mode emission from externally feed-backed vertical cavity surface emitting laser. <i>Applied Physics Letters</i> , 2017, 111, 101102.	1.5	6
874	Robust and adjustable C-shaped electron vortex beams. <i>New Journal of Physics</i> , 2017, 19, 063008.	1.2	7
875	High-order-harmonic generation by Laguerre-Gaussian laser modes: Control of the spectra by manipulating the spatial medium distribution. <i>Physical Review A</i> , 2017, 96, .	1.0	10
876	Beam Editing Coding Metasurfaces Based on Polarization Bit and Orbital Angular Momentum Mode Bit. <i>Advanced Optical Materials</i> , 2017, 5, 1700548.	3.6	142
877	Spiraling Light with Magnetic Metamaterial Quarter-Wave Turbines. <i>Scientific Reports</i> , 2017, 7, 11824.	1.6	12
878	Ultra-broadband tunable (0.67–2.57 μm) optical vortex parametric oscillator. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 102701.	0.8	6
879	Identifying the tilt angle and correcting the orbital angular momentum spectrum dispersion of misaligned light beam. <i>Scientific Reports</i> , 2017, 7, 7873.	1.6	20
880	All-fiber orbital angular momentum mode generation and transmission system. <i>Optics Communications</i> , 2017, 403, 180-184.	1.0	7
881	Adaptive optics compensation of orbital angular momentum beams with a modified Gerchberg-Saxton-based phase retrieval algorithm. <i>Optics Communications</i> , 2017, 405, 271-275.	1.0	34
882	Compositing orbital angular momentum beams in Bi ₄ Ge ₃ O ₁₂ crystal for magnetic field sensing. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	31
883	Transferring linear motion of an optical wedge to rotational frequency shift in an orbital angular momentum interferometer. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	23
884	Three-dimensional chiral microstructures fabricated by structured optical vortices in isotropic material. <i>Light: Science and Applications</i> , 2017, 6, e17011-e17011.	7.7	201
885	Synthetic-lattice enabled all-optical devices based on orbital angular momentum of light. <i>Nature Communications</i> , 2017, 8, 16097.	5.8	53

#	ARTICLE	IF	CITATIONS
886	Distribution of high-dimensional entanglement via an intra-city free-space link. <i>Nature Communications</i> , 2017, 8, 15971.	5.8	123
887	Orbital angular momentum (OAM) conversion and multicasting using N-core supermode fiber. <i>Scientific Reports</i> , 2017, 7, 1062.	1.6	8
888	Controlled generation of different orbital angular momentum states in a hybrid optical fiber. <i>Optics Communications</i> , 2017, 402, 668-671.	1.0	4
889	Direct generation of an optical vortex beam from a diode-pumped Yb:MgWO ₄ laser. <i>Laser Physics Letters</i> , 2017, 14, 085807.	0.6	13
890	Characterization of optical fields with quantized orbital angular momentum by invariants of higher order moments of radial coordinates. <i>Journal of Modern Optics</i> , 2017, 64, 2328-2335.	0.6	1
891	Reconfigurable all-fiber mode exchange enabled by mechanically induced LPFG for short-reach MDM networks. <i>Optics Communications</i> , 2017, 403, 240-244.	1.0	8
892	Digital spiral object identification using random light. <i>Light: Science and Applications</i> , 2017, 6, e17013-e17013.	7.7	47
893	Switchable phase and polarization singular beams generation using dielectric metasurfaces. <i>Scientific Reports</i> , 2017, 7, 6814.	1.6	31
894	Broadband and high efficiency all-dielectric metasurfaces for wavefront steering with easily obtained phase shift. <i>Optics Communications</i> , 2017, 405, 39-42.	1.0	9
895	Polyoxometalates Assemblies and Their Electrochemical Applications. <i>Structure and Bonding</i> , 2017, , 89-119.	1.0	7
896	Multichannel Metasurface for Simultaneous Control of Holograms and Twisted Light Beams. <i>ACS Photonics</i> , 2017, 4, 1906-1912.	3.2	70
897	Multifunctional interleaved geometric-phase dielectric metasurfaces. <i>Light: Science and Applications</i> , 2017, 6, e17027-e17027.	7.7	174
898	Optical superimposed vortex beams generated by integrated holographic plates with blazed grating. <i>Applied Physics Letters</i> , 2017, 111, 061901.	1.5	8
899	Quantum Applications of the Photon. , 2017, , 235-299.		0
900	Dynamic computer-generated nonlinear-optical holograms. <i>Physical Review A</i> , 2017, 96, .	1.0	16
901	Custom-tailored spatial mode sorting by controlled random scattering. <i>Physical Review B</i> , 2017, 95, .	1.1	39
902	High-Capacity Free-Space Optical Communications Between a Ground Transmitter and a Ground Receiver via a UAV Using Multiplexing of Multiple Orbital-Angular-Momentum Beams. <i>Scientific Reports</i> , 2017, 7, 17427.	1.6	81
903	Wavevector multiplexed atomic quantum memory via spatially-resolved single-photon detection. <i>Nature Communications</i> , 2017, 8, 2140.	5.8	74

#	ARTICLE	IF	CITATIONS
904	RCS Diversity of Electromagnetic Wave Carrying Orbital Angular Momentum. Scientific Reports, 2017, 7, 15412.	1.6	28
905	Nonlinear Metasurface for Simultaneous Control of Spin and Orbital Angular Momentum in Second Harmonic Generation. Nano Letters, 2017, 17, 7974-7979.	4.5	112
906	A new method of calculating the orbital angular momentum spectra of Laguerre-Gaussian beams in channels with atmospheric turbulence. Chinese Physics B, 2017, 26, 114207.	0.7	9
907	A deterministic detector for vector vortex states. Scientific Reports, 2017, 7, 13882.	1.6	44
908	Dipolar bright solitons and solitary vortices in a radial lattice. Physical Review A, 2017, 96, .	1.0	14
909	Reply to Miller: Misunderstanding and mix-up of acoustic and optical communications. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9757-E9758.	3.3	1
910	Pre-correction of distorted Bessel-Gauss beams without wavefront detection. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	7
911	Trajectory-based unveiling of the angular momentum of photons. Physical Review A, 2017, 95, .	1.0	1
912	Generation of strong cylindrical vector pulses via stimulated Brillouin amplification. Applied Physics Letters, 2017, 110, .	1.5	16
913	High-speed acoustic communication by multiplexing orbital angular momentum. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 7250-7253.	3.3	220
914	Orbital Angular Momentum (OAM) of Rotating Modes Driven by Electrons in Electron Cyclotron Masers. Scientific Reports, 2017, 7, 3372.	1.6	23
915	Adaptive Demodulator Using Machine Learning for Orbital Angular Momentum Shift Keying. IEEE Photonics Technology Letters, 2017, 29, 1455-1458.	1.3	67
916	Free Space Vortex Light by Diffraction of a Bessel Beam From Optical Fiber. IEEE Photonics Journal, 2017, 9, 1-10.	1.0	5
917	Detecting the Orbital Angular Momentum of Electro-Magnetic Waves Using Virtual Rotational Antenna. Scientific Reports, 2017, 7, 4585.	1.6	29
918	Mixing of spin and orbital angular momenta via second-harmonic generation in plasmonic and dielectric chiral nanostructures. Physical Review B, 2017, 95, .	1.1	25
919	Generation of Partially Coherent Beams. Progress in Optics, 2017, 62, 157-223.	0.4	114
920	Theoretical analyses on orbital angular momentum modes in conventional graded-index multimode fibre. Scientific Reports, 2017, 7, 3990.	1.6	53
921	Directly generating orbital angular momentum in second-harmonic waves with a spirally poled nonlinear photonic crystal. Applied Physics Letters, 2017, 110, 261104.	1.5	23

#	ARTICLE	IF	CITATIONS
922	Orbital Angular Momentum Multiplexing and Demultiplexing by a Single Metasurface. <i>Advanced Optical Materials</i> , 2017, 5, 1600502.	3.6	150
923	Ultrathin Complementary Metasurface for Orbital Angular Momentum Generation at Microwave Frequencies. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 396-400.	3.1	145
924	On the Spectral Efficiency Limits of an OAM-Based Multiplexing Scheme. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 900-903.	2.4	19
925	Design and implementation of planar reflection spiral phase plate for beams with orbital angular momentum. <i>IET Microwaves, Antennas and Propagation</i> , 2017, 11, 260-264.	0.7	14
926	Dynamic evolution of coherent vortex dipole in atmospheric turbulence. <i>Optics Communications</i> , 2017, 383, 341-348.	1.0	4
927	Optical beam with vortices: A first order paraxial analysis. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 865, 13-19.	0.7	0
928	Fiber optic temperature sensor using the orbital angular momentum and gaussian beams. <i>Instrumentation Science and Technology</i> , 2017, 45, 123-136.	0.9	15
929	Roadmap on structured light. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 013001.	1.0	888
930	Fiber-guided modes conversion using superposed helical gratings. <i>Optics Communications</i> , 2017, 386, 1-5.	1.0	7
931	Mode Measurement of a Dual-Mode Radio Frequency Orbital Angular Momentum Beam by Circular Phase Gradient Method. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2017, 16, 1143-1146.	2.4	16
932	Single-source bidirectional free-space optical communications using reflective SOA-based amplified modulating retro-reflection. <i>Optics Communications</i> , 2017, 387, 43-47.	1.0	16
933	Capacity of arbitrary-order orbital angular momentum multiplexing system. <i>Optics Communications</i> , 2017, 387, 432-439.	1.0	11
934	Optical Communication in Space: Challenges and Mitigation Techniques. <i>IEEE Communications Surveys and Tutorials</i> , 2017, 19, 57-96.	24.8	1,027
935	Crosstalk mitigation in a free space orbital angular momentum multiplexing system based on ICA. , 2017, , .		0
936	Experimental demonstration of a feedback-assisted orbital angular momentum-based underwater wireless optical link across the underwater-to-air interface. , 2017, , .		2
937	Polarization conversion at sharp focusing of vector vortex beams. , 2017, , .		0
938	Non-Line-of-Sight Channel Performance of Plane Spiral Orbital Angular Momentum MIMO Systems. <i>IEEE Access</i> , 2017, 5, 25377-25384.	2.6	20
939	OAM antenna arrays at E-band. , 2017, , .		9

#	ARTICLE	IF	CITATIONS
940	Desing of phase masks for implementing in an orbital angular momentum multiplexing/demultiplexing system in free space. , 2017, , .		0
941	Capacity Analysis of Orbital Angular Momentum Wireless Channels. IEEE Access, 2017, 5, 23069-23077.	2.6	54
942	Generation and Analysis of High-Gain Orbital Angular Momentum Vortex Wave Using Circular Array and Parasitic EBG with oblique incidence. Scientific Reports, 2017, 7, 17363.	1.6	17
943	Demonstration of a vectorial optical field generator with adaptive close loop control. Review of Scientific Instruments, 2017, 88, 125111.	0.6	9
944	Demonstration of a visible-light parallel communication link based on hexadecimal vector beam array coding/decoding. , 2017, , .		1
945	Independently detect the spiral phase of cylindrical vector vortex beams. , 2017, , .		2
946	Switching the Topological Charge of Surface Plasmon Vortex by Tailoring Polarization States. IEEE Photonics Technology Letters, 2017, 29, 1784-1787.	1.3	3
947	Resolution Performance of the Orbital-Angular-Momentum-Based Imaging Radar. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2975-2978.	2.4	9
948	Sorting Photons by Radial Quantum Number. Physical Review Letters, 2017, 119, 263602.	2.9	97
949	High-speed free-space laser communications using advanced coherent modulation formats. , 2017, , .		1
950	Highly Selective 7 Orbital Angular Momentum Mode Multiplexer Based on Multi-Plane Light Conversion. , 2017, , .		2
951	FDTD modeling of reconfigurable reflectarray for generation of vortex radio waves. , 2017, , .		0
952	A 60-GHz RLSA fed by butler matrix carrying three OAM modes. , 2017, , .		2
953	Twin-Vortices in Clustered Speckles Modulated by a Spiral Multi-Pinhole Plate. IEEE Photonics Technology Letters, 2017, 29, 2051-2054.	1.3	2
954	Generation of multiple modes microwave vortex beams using tunable metasurface. , 2017, , .		2
955	Diffraction of an electromagnetic vortex bessel beam by the end of a semi-infinite magnetized plasma cylinder. , 2017, , .		1
956	Experimental observation of optical bistability in an integrated vortex beam emitter. , 2017, , .		0
957	Analog Eigenmode Transmission for Short-Range MIMO Based on Orbital Angular Momentum. IEEE Transactions on Antennas and Propagation, 2017, 65, 6687-6702.	3.1	28

#	ARTICLE	IF	CITATIONS
958	Predictive method for analyzing OAM at radio frequencies. , 2017, , .		0
959	Graphene reflectarray that steers vortex THz waves. , 2017, , .		1
960	Generating fast switchable optical vortices by beam combining. , 2017, , .		0
961	Extreme-Ultraviolet Vortices from a Free-Electron Laser. Physical Review X, 2017, 7, .	2.8	36
962	Orbital angular momentum of gyrotron modes. , 2017, , .		0
963	Research progress of orbital angular momentum multiplexing communication in Xi'an University of Technology. , 2017, , .		0
964	Experimental Demonstration of 8.4-Tbit/s Data Transmission over an 18-km Orbital Angular Momentum (OAM) Fiber using WDM and OAM based Mode Division Multiplexing (MDM). , 2017, , .		5
965	Space-temporal stochastic characteristics of complex amplitude for the sounding vector optical beam. , 2017, , .		4
966	4.8-Gbit/s broadband orbital angular momentum and polarization multiplexing at radio frequency. , 2017, , .		1
967	OAM modulation induced in millimeter waves using impedance matched flat phase plate. , 2017, , .		3
968	Performance of Using Antenna Arrays to Generate and Receive mm-Wave Orbital-Angular-Momentum Beams. , 2017, , .		6
969	Multiplexing of terahertz wireless communication channels using vortex beams. , 2017, , .		0
970	Experimental evaluation of underwater wireless optical transmission link employing 4-fold orbital angular momentum (OAM) multicasting. , 2017, , .		0
971	Demonstration of underwater wireless optical communication using directly modulated green laser and different modes subjected to bubbles. , 2017, , .		0
972	Detection of topological charges for coaxial multiplexed perfect vortices. , 2017, , .		1
973	Multi-UCA based OAM-carrying vortex electromagnetic wave transmission characteristics analysis. , 2017, , .		2
974	An efficient planar meta-lens as converged vortex beam generator in microwave region. , 2017, , .		0
975	A high gain OAM antenna based on splitting spiral phase plate for C band. , 2017, , .		4

#	ARTICLE	IF	CITATIONS
976	Generation of ultra-wideband achromatic Airy plasmons on a graphene surface. Optics Letters, 2017, 42, 563.	1.7	12
977	Orbital angular momentum beams generated by passive dielectric phase masks and their performance in a communication link. Optics Letters, 2017, 42, 2746.	1.7	13
978	Spatially multiplexed orbital-angular-momentum-encoded single photon and classical channels in a free-space optical communication link. Optics Letters, 2017, 42, 4881.	1.7	22
979	Detecting the topological charge of optical vortex beams using a sectorial screen. Applied Optics, 2017, 56, 4868.	2.1	32
980	Ultraviolet optical vortex generation using a pair of \hat{l}^2 -BaB_2O_4 crystals with inverted orientations. Applied Optics, 2017, 56, 8075.	0.9	3
981	High-efficiency measurement of all orbital angular momentum modes in a light beam. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1444.	0.9	3
982	Vectorial control of nonlinear emission via chiral butterfly nanoantennas: generation of pure high order nonlinear vortex beams. Optics Express, 2017, 25, 2569.	1.7	20
983	Generation of cylindrical vector beams and optical vortex by two acoustically induced fiber gratings with orthogonal vibration directions. Optics Express, 2017, 25, 2733.	1.7	53
984	Transmitting more than 10 bit with a single photon. Optics Express, 2017, 25, 2826.	1.7	14
985	Demonstration of analog links using spatial modes in km-scale few mode fiber. Optics Express, 2017, 25, 3613.	1.7	6
986	Test of mode-division multiplexing and demultiplexing in free-space with diffractive transformation optics. Optics Express, 2017, 25, 7859.	1.7	46
987	Simultaneous wavelength and orbital angular momentum demultiplexing using tunable MEMS-based Fabry-Perot filter. Optics Express, 2017, 25, 9634.	1.7	22
988	Low-crosstalk orbital angular momentum fiber coupler design. Optics Express, 2017, 25, 11200.	1.7	13
989	Orbital angular momentum 25 years on [Invited]. Optics Express, 2017, 25, 11265.	1.7	578
990	Multiple generations of high-order orbital angular momentum modes through cascaded third-harmonic generation in a 2D nonlinear photonic crystal. Optics Express, 2017, 25, 11556.	1.7	13
991	Geometric phase Doppler effect: when structured light meets rotating structured materials. Optics Express, 2017, 25, 11564.	1.7	16
992	Terahertz vortex beam generator based on a photopatterned large birefringence liquid crystal. Optics Express, 2017, 25, 12349.	1.7	79
993	Tailoring optical orbital angular momentum spectrum with spiral complex field modulation. Optics Express, 2017, 25, 15108.	1.7	9

#	ARTICLE	IF	CITATIONS
994	Simple method for efficient reconfigurable optical vortex beam splitting. Optics Express, 2017, 25, 18722.	1.7	20
995	Single mode fiber based delivery of OAM light by 3D direct laser writing. Optics Express, 2017, 25, 19672.	1.7	66
996	Generalized optical angular momentum sorter and its application to high-dimensional quantum cryptography. Optics Express, 2017, 25, 19832.	1.7	40
997	Non-diffractive Bessel-Gauss beams for the detection of rotating object free of obstructions. Optics Express, 2017, 25, 20098.	1.7	68
998	Universal phase-only spatial light modulators. Optics Express, 2017, 25, 22253.	1.7	16
999	Wavelength- and OAM-tunable vortex laser with a reflective volume Bragg grating. Optics Express, 2017, 25, 23312.	1.7	26
1000	Spatial mode multiplexing using volume holographic gratings. Optics Express, 2017, 25, 23726.	1.7	14
1001	Coherent frequency bridge between visible and telecommunications band for vortex light. Optics Express, 2017, 25, 24290.	1.7	13
1002	Polarisation structuring of broadband light. Optics Express, 2017, 25, 25079.	1.7	26
1003	Turbulence heterodyne coherent mitigation of orbital angular momentum multiplexing in a free space optical link by auxiliary light. Optics Express, 2017, 25, 25612.	1.7	23
1004	Orbital angular momentum mode groups multiplexing transmission over 26-km conventional multi-mode fiber. Optics Express, 2017, 25, 25637.	1.7	68
1005	Simultaneous generation of multiple vector beams on a single SLM. Optics Express, 2017, 25, 25697.	1.7	122
1006	Crosstalk mitigation using pilot assisted least square algorithm in OFDM-carrying orbital angular momentum multiplexed free-space-optical communication links. Optics Express, 2017, 25, 25707.	1.7	8
1007	Demonstration of data-carrying orbital angular momentum-based underwater wireless optical multicasting link. Optics Express, 2017, 25, 28743.	1.7	55
1008	Spatiotemporal evolutions of ultrashort vortex pulses generated by spiral multi-pinhole plate. Optics Express, 2017, 25, 29864.	1.7	18
1009	Effects of moderate to strong turbulence on the Hankel-Bessel-Gaussian pulse beam with orbital angular momentum in the marine-atmosphere. Optics Express, 2017, 25, 33469.	1.7	27
1010	Polarization-independent phase modulators enabled by two-photon polymerization. Optics Express, 2017, 25, 33688.	1.7	24
1011	Using a complex optical orbital-angular-momentum spectrum to measure object parameters. Optics Letters, 2017, 42, 4482.	1.7	81

#	ARTICLE	IF	CITATIONS
1012	Shaping light beams in nonlinear processes using structured light and patterned crystals. <i>Optical Materials Express</i> , 2017, 7, 2928.	1.6	14
1013	High-dimensional intracity quantum cryptography with structured photons. <i>Optica</i> , 2017, 4, 1006.	4.8	330
1014	Efficient separating orbital angular momentum mode with radial varying phase. <i>Photonics Research</i> , 2017, 5, 267.	3.4	24
1015	Analytical theory of real-argument Laguerre-Gaussian beams beyond the paraxial approximation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017, 34, 1940.	0.8	5
1016	Experimental demonstration of optical interconnects exploiting orbital angular momentum array. <i>Optics Express</i> , 2017, 25, 21537.	1.7	45
1017	Generation of arbitrary vector vortex beams on hybrid-order Poincaré sphere. <i>Photonics Research</i> , 2017, 5, 15.	3.4	169
1018	Machine learning approach to OAM beam demultiplexing via convolutional neural networks. <i>Applied Optics</i> , 2017, 56, 3386.	2.1	158
1019	Azo-polymer film twisted to form a helical surface relief by illumination with a circularly polarized Gaussian beam. <i>Optics Express</i> , 2017, 25, 12499.	1.7	32
1020	MDM transmission of CAP-16 signals over 11- km anti-bending trench-assisted elliptical-core few-mode fiber in passive optical networks. <i>Optics Express</i> , 2017, 25, 22991.	1.7	24
1021	Nonlinear vortex beam array generation by spatially modulated fundamental wave. <i>Optics Express</i> , 2017, 25, 28668.	1.7	8
1022	Demonstration of km-scale orbital angular momentum multiplexing transmission using 4-level pulse-amplitude modulation signals. <i>Optics Letters</i> , 2017, 42, 763.	1.7	15
1023	Generation, reception and separation of mixed-state orbital angular momentum vortex beams using metasurfaces. <i>Optical Materials Express</i> , 2017, 7, 3312.	1.6	50
1024	Non-probe compensation of optical vortices carrying orbital angular momentum. <i>Photonics Research</i> , 2017, 5, 251.	3.4	39
1025	Two-stage cross-talk mitigation in an orbital-angular-momentum-based free-space optical communication system. <i>Optics Letters</i> , 2017, 42, 3125.	1.7	4
1026	Performance evaluation of underwater optical communications using spatial modes subjected to bubbles and obstructions. <i>Optics Letters</i> , 2017, 42, 4699.	1.7	59
1027	On-chip orbital angular momentum modes generator and (de)multiplexer based on trench silicon waveguides. <i>Optics Express</i> , 2017, 25, 18492.	1.7	46
1028	High-directional vortex beam emitter based on Archimedean spiral adiabatic waveguides. <i>Optics Letters</i> , 2017, 42, 975.	1.7	7
1029	Approach to multiplexing fiber communication with cylindrical vector beams. <i>Optics Letters</i> , 2017, 42, 2579.	1.7	65

#	ARTICLE	IF	CITATIONS
1030	Orbital Angular Momentum (OAM) Multiplexing: An Enabler of a New Era of Wireless Communications. IEICE Transactions on Communications, 2017, E100.B, 1044-1063.	0.4	70
1031	Generating, Separating and Polarizing Terahertz Vortex Beams via Liquid Crystals with Gradient-Rotation Directors. Crystals, 2017, 7, 314.	1.0	16
1032	Twisted Soft Photon Hair Implants on Black Holes. Entropy, 2017, 19, 458.	1.1	9
1033	The gyrotron â€“ a natural source of high-power orbital angular momentum millimeter-wave beams. EPJ Web of Conferences, 2017, 149, 04014.	0.1	4
1034	Optical Orbital Angular Momentum Demultiplexing and Channel Equalization by Using Equalizing Dammann Vortex Grating. Advances in Condensed Matter Physics, 2017, 2017, 1-9.	0.4	1
1035	Generation of femtosecond optical vortex pulse in fiber based on an acoustically induced fiber grating. Optics Letters, 2017, 42, 454.	1.7	36
1036	Orbital angular momentum beam excitation using an all-fiber weakly fused mode selective coupler. Optics Letters, 2017, 42, 4347.	1.7	84
1037	Power loss mitigation of orbital-angular-momentum-multiplexed free-space optical links using nonzero radial index Laguerreâ€“Gaussian beams. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1.	0.9	32
1038	High-efficiency phase flattening based Laguerreâ€“Gauss spectrometer using variable focus lenses. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 76.	0.9	3
1039	Chip-scale optical vortex lattice generator on a silicon platform. Optics Letters, 2017, 42, 5054.	1.7	25
1040	Orbital-angular-momentum based mode-hopping: A novel anti-jamming technique. , 2017, , .		5
1041	Orbital angular momentum of a Gaussian beam without optical vortices produced by cylindrical lenses. , 2017, , .		0
1042	All-fiber OAM generation/conversion using helically patterned photonic crystal fiber. , 2017, , .		0
1043	A novel SAR imaging method based on electromagnetic vortex with orbital-angular-momentum. , 2017, , .		7
1044	Low profile fractured-reflect-disk to generate OAM vortex beam in X-band. , 2017, , .		0
1045	Ultrashort Extreme Ultraviolet Vortices. , 0, , .		2
1046	Optical Vortices Illumination Enables the Creation of Chiral Nanostructures. , 0, , .		3
1047	Determining topological charge of an optical beam using a wedged optical flat. Optics Letters, 2017, 42, 1516.	1.7	35

#	ARTICLE	IF	CITATIONS
1048	Split in phase singularities of an optical vortex by off-axis diffraction through a simple circular aperture. <i>Optics Letters</i> , 2017, 42, 1373.	1.7	21
1049	Single-focus spiral zone plates. <i>Optics Letters</i> , 2017, 42, 2663.	1.7	24
1050	Measuring the complex orbital angular momentum spectrum of light with a mode-matching method. <i>Optics Letters</i> , 2017, 42, 1080.	1.7	33
1051	Hybrid generation and analysis of vector vortex beams. <i>Applied Optics</i> , 2017, 56, 2171.	2.1	18
1052	Spatial light structuring using a combination of multiple orthogonal orbital angular momentum beams with complex coefficients. <i>Optics Letters</i> , 2017, 42, 991.	1.7	31
1053	Partially Coherent Vortex Beam: From Theory to Experiment. , 0, , .		8
1054	Reconfigurable Antenna Systems for the Next Generation Devices Based on 4G/5G Standard. <i>International Journal of Interactive Communication Systems and Technologies</i> , 2017, 7, 53-71.	0.7	0
1055	Directly writing binary multi-sector phase plates on fused silica using femtosecond laser. <i>High Power Laser Science and Engineering</i> , 2018, 6, .	2.0	4
1056	Gouy Phase Radial Mode Sorter for Light: Concepts and Experiments. <i>Physical Review Letters</i> , 2018, 120, 103601.	2.9	74
1057	Optimal Mode Set Selection for Free Space Optical Communications in the Presence of Atmosphere Turbulence. <i>Journal of Lightwave Technology</i> , 2018, 36, 2222-2229.	2.7	7
1058	Revisiting Orbital Angular Momentum Beams: Fundamentals, Reflectarray Generation, and Novel Antenna Applications. <i>IEEE Antennas and Propagation Magazine</i> , 2018, 60, 68-81.	1.2	67
1059	Vortex Waves and Channel Capacity: Hopes and Reality. <i>IEEE Access</i> , 2018, 6, 19814-19822.	2.6	32
1060	The Propagation Properties of a Longitudinal Orbital Angular Momentum Multiplexing System in Atmospheric Turbulence. <i>IEEE Photonics Journal</i> , 2018, 10, 1-16.	1.0	23
1061	Orbital-angular-momentum photons for optical communication in non-Kolmogorov atmospheric turbulence. <i>Optics Communications</i> , 2018, 416, 89-93.	1.0	8
1062	Topological photonic orbital-angular-momentum switch. <i>Physical Review A</i> , 2018, 97, .	1.0	18
1064	Fragmentation of twisted light in photon-phonon nonlinear propagation. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	18
1065	Enhancing the recovery of a temporal sequence of images using joint deconvolution. <i>Scientific Reports</i> , 2018, 8, 5257.	1.6	3
1066	Light, the universe and everything – 12 Herculean tasks for quantum cowboys and black diamond skiers. <i>Journal of Modern Optics</i> , 2018, 65, 1261-1308.	0.6	6

#	ARTICLE	IF	CITATIONS
1067	Mode Hopping for Anti-Jamming in Radio Vortex Wireless Communications. IEEE Transactions on Vehicular Technology, 2018, 67, 7018-7032.	3.9	41
1068	Twisted Acoustics: Metasurface-Enabled Multiplexing and Demultiplexing. Advanced Materials, 2018, 30, e1800257.	11.1	134
1069	Optical trapping two types of particles using a focused vortex beam. Optik, 2018, 166, 138-146.	1.4	20
1070	Direct fiber vector eigenmode multiplexing transmission seeded by integrated optical vortex emitters. Light: Science and Applications, 2018, 7, 17148-17148.	7.7	124
1071	Analysis of angular momentum properties of photons emitted in fundamental atomic processes. Physical Review A, 2018, 97, .	1.0	1
1072	Tunable optical vortex arrays using spontaneous periodic pattern formation in nematic liquid crystal cells. Current Applied Physics, 2018, 18, 819-823.	1.1	14
1073	Creation and Detection of Vector Vortex Modes for Classical and Quantum Communication. Journal of Lightwave Technology, 2018, 36, 292-301.	2.7	207
1074	Optical vortex beam direct-writing photolithography. Applied Physics Express, 2018, 11, 036503.	1.1	7
1075	Spatial-Mode Diversity and Multiplexing for FSO Communication With Direct Detection. IEEE Transactions on Communications, 2018, 66, 2079-2092.	4.9	32
1076	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.	2.0	61
1077	Wireless Data Transmission Method Using Pulsed THz Sliced Spectral Supercontinuum. IEEE Photonics Technology Letters, 2018, 30, 103-106.	1.3	16
1078	Excited states of two-dimensional solitons supported by spin-orbit coupling and field-induced dipole-dipole repulsion. Physical Review A, 2018, 97, .	1.0	20
1079	The Nanoscale Optical Properties of Complex Nanostructures. Springer Theses, 2018, , .	0.0	0
1081	Diffraction-induced entanglement loss of orbital-angular-momentum states. Physical Review A, 2018, 97, .	1.0	8
1082	Angular Momentum-Dependent Transmission of Circularly Polarized Vortex Beams Through a Plasmonic Coaxial Nanoring. IEEE Photonics Journal, 2018, 10, 1-9.	1.0	11
1083	The phase interrogation method for optical fiber sensor by analyzing the fork interference pattern. Applied Physics B: Lasers and Optics, 2018, 124, 1.	1.1	11
1084	A broadband high-transmission gradient phase discontinuity metasurface. Journal Physics D: Applied Physics, 2018, 51, 095103.	1.3	16
1085	Supersymmetric Transformations in Optical Fibers. Physical Review Applied, 2018, 9, .	1.5	22

#	ARTICLE	IF	CITATIONS
1086	MIMO optical wireless communication via monolithic or sparse apertures. Journal of Optics (United Kingdom), 2018, 20, 1070-1074.	2.0	2
1087	Realization of multiple orbital angular momentum modes simultaneously through four-dimensional antenna arrays. Scientific Reports, 2018, 8, 149.	1.6	8
1088	Design of a circular photonic crystal fiber with square air-holes for orbital angular momentum modes transmission. Optik, 2018, 158, 1266-1274.	1.4	44
1089	Digitalizing Self-Assembled Chiral Superstructures for Optical Vortex Processing. Advanced Materials, 2018, 30, 1705865.	11.1	131
1090	Detection of Orbital Angular Momentum With Metasurface at Microwave Band. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 110-113.	2.4	51
1091	Anomalous Bessel vortex beam: modulating orbital angular momentum with propagation. Nanophotonics, 2018, 7, 677-682.	2.9	67
1092	Interaction of Structured Light with a Chiral Plasmonic Metasurface: Giant Enhancement of Chiro-Optic Response. ACS Photonics, 2018, 5, 734-740.	3.2	27
1093	Generating Focused 3D Perfect Vortex Beams By Plasmonic Metasurfaces. Advanced Optical Materials, 2018, 6, 1701228.	3.6	111
1094	High-efficiency dual-modes vortex beam generator with polarization-dependent transmission and reflection properties. Scientific Reports, 2018, 8, 6422.	1.6	27
1095	Comments on "Radial Uniform Circular Antenna Array for Dual-Mode OAM Communication". IEEE Antennas and Wireless Propagation Letters, 2018, 17, 719-721.	2.4	12
1096	Enforcing Energy Balance in Coherently Superimposed Optical Vortices. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	0
1097	Generating structured light with phase helix and intensity helix using reflection-enhanced plasmonic metasurface at 2 μ m. Applied Physics Letters, 2018, 112, .	1.5	12
1098	Brillouin Light Scattering by Magnetic Quasivortices in Cavity Optomagnonics. Physical Review Letters, 2018, 120, 133602.	2.9	109
1099	Cascade conical refraction for annular pumping of a vortex Nd:YAG laser and selective excitation of low- and high-order Laguerre-Gaussian modes. Laser Physics Letters, 2018, 15, 055804.	0.6	3
1100	Generation of microwave orbital angular momentum states using hemispherical dielectric resonator antenna. Applied Physics Letters, 2018, 112, .	1.5	60
1101	Optical Metasurfaces: Progress and Applications. Annual Review of Materials Research, 2018, 48, 279-302.	4.3	111
1102	Scalable detection of photonic topological charge using radial phase grating. Applied Physics Letters, 2018, 112, .	1.5	18
1103	Dual-wavelength vortex beam with high stability in a diode-pumped Yb:CaGdAlO ₄ laser. Laser Physics Letters, 2018, 15, 055803.	0.6	11

#	ARTICLE	IF	CITATIONS
1104	Influence of Finite Apertures on Orthogonality and Completeness of Laguerre-Gaussian Beams. IEEE Access, 2018, 6, 8742-8754.	2.6	30
1105	Transverse Focal Shift in Vortex Beams. IEEE Photonics Journal, 2018, 10, 1-17.	1.0	7
1106	Twisting phase and intensity of light with plasmonic metasurfaces. Scientific Reports, 2018, 8, 4884.	1.6	15
1107	Twisted photons: new quantum perspectives in high dimensions. Light: Science and Applications, 2018, 7, 17146-17146.	7.7	412
1108	Direct Generation of Vortex Laser by Rotating Induced Off-Axis Pumping. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-6.	1.9	25
1109	Spiniform phase-encoded metagratings entangling arbitrary rational-order orbital angular momentum. Light: Science and Applications, 2018, 7, 17156-17156.	7.7	97
1110	Channel capacity of OAM based FSO communication systems with partially coherent Bessel-Gaussian beams in anisotropic turbulence. Optics Communications, 2018, 418, 32-36.	1.0	25
1111	Entangled-photons generation with quantum dots. Chinese Physics B, 2018, 27, 020307.	0.7	6
1112	Controllable all-fiber generation/conversion of circularly polarized orbital angular momentum beams using long period fiber gratings. Nanophotonics, 2018, 7, 287-293.	2.9	87
1113	Topological charge measurement of concentric OAM states using the phase-shift method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, A40.	0.8	9
1114	Tight focusing properties of anomalous vortex beams. Optik, 2018, 154, 133-138.	1.4	11
1115	Demonstration of Orbital Angular Momentum Multiplexing and Demultiplexing Based on a Metasurface in the Terahertz Band. ACS Photonics, 2018, 5, 1726-1732.	3.2	111
1116	Interconnection network architectures based on integrated orbital angular momentum emitters. Optics Communications, 2018, 408, 63-67.	1.0	8
1117	Atmospheric turbulence compensation in orbital angular momentum communications: Advances and perspectives. Optics Communications, 2018, 408, 68-81.	1.0	77
1118	Underwater optical communications using orbital angular momentum-based spatial division multiplexing. Optics Communications, 2018, 408, 21-25.	1.0	70
1119	Experimental demonstration of bidirectional up to 40 Gbit/s QPSK coherent free-space optical communication link over ~ 1 km. Optics Communications, 2018, 410, 674-679.	1.0	13
1120	Interaction of a Laguerre-Gaussian beam with trapped Rydberg atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 015004.	0.6	8
1121	Quantum storage of orbital angular momentum entanglement in cold atomic ensembles. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032004.	0.6	20

#	ARTICLE	IF	CITATIONS
1122	Probability density performance of Laguerre-Gaussian beams propagating in non-Kolmogorov atmospheric turbulence. <i>Optik</i> , 2018, 157, 170-179.	1.4	6
1123	Propagation of hypergeometric Gaussian beams in strongly nonlocal nonlinear media. <i>Laser Physics</i> , 2018, 28, 015001.	0.6	5
1124	High-dimensional free-space optical communications based on orbital angular momentum coding. <i>Optics Communications</i> , 2018, 410, 333-337.	1.0	8
1125	Quasi-electrostatic twisted waves in Lorentzian dusty plasmas. <i>Planetary and Space Science</i> , 2018, 156, 139-146.	0.9	9
1126	On-chip spin-controlled orbital angular momentum directional coupling. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 014002.	1.3	6
1127	Compensation for the orbital angular momentum of a vortex beam in turbulent atmosphere by adaptive optics. <i>Optics and Laser Technology</i> , 2018, 98, 7-11.	2.2	15
1128	Transmission of multi-dimensional signals for next generation optical communication systems. <i>Optics Communications</i> , 2018, 408, 42-52.	1.0	10
1129	Spiral bandwidth of four-wave mixing in Rb vapour. <i>Communications Physics</i> , 2018, 1, .	2.0	39
1130	A Dual-band Shared-Aperture Circular Phased Array for Generating OAM Beams. , 2018, , .		1
1131	Characteristics of fork fringes formed by two obliquely-incident vortex beams with different topological charge number. <i>Journal of Physics: Conference Series</i> , 2018, 1144, 012158.	0.3	4
1132	The manipulation of second-order nonlinear harmonic wave by structured material and structured light. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2018, 27, 1850047.	1.1	6
1133	Experiment on Over-100-Gbps Wireless Transmission with OAM-MIMO Multiplexing System in 28-GHz Band. , 2018, , .		28
1134	Orthogonal Mode Division Multiplexing for Radio Vortex Wireless Communication. , 2018, , .		0
1135	Probability distribution of the orbital angular momentum mode of the ultrashort Laguerre-Gaussian pulsed beam propagation in oceanic turbulence. <i>Results in Physics</i> , 2018, 11, 698-705.	2.0	17
1136	Tailoring polarization states of multiple beams that carry different topological charges of orbital angular momentums. <i>Optics Express</i> , 2018, 26, 31664.	1.7	21
1137	Generation of Multi-mode Vortex Electromagnetic Waves Based on Helical Antenna. , 2018, , .		1
1138	Coaxial superposition of Bessel beams by discretized spiral axicons. <i>Journal of the European Optical Society-Rapid Publications</i> , 2018, 14, .	0.9	12
1139	Detection of Multiple Orbital-Angular-Momentum Beams by a Single Metasurface. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
1140	The Propagation Model of Modulated Subterahertz Signals in the RoF Communication Systems. , 2018, , .		1
1141	Turbulence Controllable Free Space Optical Time Division System based on Supercontinuum. , 2018, , .		0
1142	Methods for preparation and detection of neutron spin-orbit states. New Journal of Physics, 2018, 20, 103012.	1.2	27
1143	Direct Determination of Laguerre-Gauss Vortex Beams' Topological Charges by Aperture Diffraction Pattern. , 2018, , .		0
1144	Perfect optical vortex array for optical communication based on orbital angular momentum shift keying. Journal of Optics (United Kingdom), 2018, 20, 125604.	1.0	23
1145	A Novel Imaging Formation of Electromagnetic Vortex Sar with Time-Variant Orbital-Angular-Momentum. , 2018, , .		1
1146	Controllable generation of second-harmonic vortex beams through nonlinear supercell grating. Applied Physics Letters, 2018, 113, 221101.	1.5	10
1147	Energy, Linear Momentum, and Angular Momentum of Light: What Do We Measure?. Annalen Der Physik, 2018, 530, 1800111.	0.9	20
1148	Tunable 3 μm optical vortex parametric oscillator. Japanese Journal of Applied Physics, 2018, 57, 122701.	0.8	9
1149	Spatial Quadrature Amplitude Multiplexing using Coherently Coupled Beams with Orbital Angular Momentum. , 2018, , .		0
1150	A review of complex vector light fields and their applications. Journal of Optics (United Kingdom), 2018, 20, 123001.	1.0	296
1151	External pressure induced liquid crystal defects for optical vortex generation. AIP Advances, 2018, 8, 065219.	0.6	3
1152	Integrated Photonic OAM Emitter with Wide Tuning Range. , 2018, , .		0
1153	All-Fiber Orbital Angular Momentum (OAM) Broadband Functional Devices for OAM Generation and Beam Splitting in Conventional Graded-index Multimode Fiber. , 2018, , .		0
1154	Photonic lantern broadband orbital angular momentum mode multiplexer. Optics Express, 2018, 26, 30042.	1.7	49
1155	Programmable orbital angular momentum(OAM) mode multiplexer based on multi-plane light conversion(MPLC). , 2018, , .		0
1156	Binary diffractive optics for 3D-demultiplexing of OAM beams. Journal of Physics: Conference Series, 2018, 1124, 051015.	0.3	2
1157	Diversity Based on the Vortex Wave in Fading Channels. IEEE Access, 2018, 6, 54542-54549.	2.6	6

#	ARTICLE	IF	CITATIONS
1158	Interference Mitigation Based on Optimal Modes Selection Strategy and CMA-MIMO Equalization for OAM-MIMO Communications. IEEE Access, 2018, 6, 69850-69859.	2.6	11
1159	First Demonstration of Ultra-Low-Noise Long-Haul 110-km MDM+WDM Transmission of Orbital Angular Momentum (OAM) Modes with 1st / 2nd-Order Distributed Raman Amplifier. , 2018, , .		3
1160	Orbital Angular Momentum Mode Spectrum Analysis of Multi-UCA Antenna for Generating Vortex Electromagnetic Wave. , 2018, , .		1
1161	Multiple Vortex Electromagnetic Wave Generation Based on Ultra-Wideband Reflective Metasurface. , 2018, , .		0
1162	The Orbital Angular Momentum of Light for Ultra-High Capacity Data Centers. , 2018, , .		0
1163	Analysis of the Conservation of the Orbital Angular Momentum of Multimode Laguerre-Gaussian Beams Propagating in a Random Medium. , 2018, , .		2
1164	Generation of Terahertz Vortex Waves in Resonant-Tunneling-Diode Oscillators by Integrated Radial Line Slot Antenna. , 2018, , .		3
1165	A Novel Imaging Formation Method for Electromagnetic Vortex SAR Based on Orbital-Angular-Momentum. , 2018, , .		2
1166	Interaction between helical phase and Kerr nonlinear phase in vortex four- and six-wave mixing. Europhysics Letters, 2018, 124, 34004.	0.7	1
1167	Complex analysis between CV modes and OAM modes in fiber systems. Nanophotonics, 2019, 8, 271-285.	2.9	31
1168	Versatile orbital angular momentum vortex beam generator based on reconfigurable reflective metasurface. Japanese Journal of Applied Physics, 2018, 57, 120303.	0.8	26
1169	Frequency Up-Conversion of Data-Carrying Optical Vortex for Optical Fibre to Optical Wireless Communications Interface. , 2018, , .		0
1170	Determining Vortex-Beam Superpositions by Shear Interferometry. Photonics, 2018, 5, 16.	0.9	13
1171	Turbulence-induced optical loss and cross-talk in spatial-mode multiplexed or single-mode free-space communication channels. Physical Review A, 2018, 98, .	1.0	1
1172	A High-Gain Shared-Aperture Dual-Band OAM Antenna with Parabolic Reflector. , 2018, , .		5
1173	Packaging of Silicon Microlenses on Integrated OAM-Emitters for Compact Transmitters. , 2018, , .		0
1174	Optical spatial differentiator for a synthetic three-dimensional optical field. Optics Letters, 2018, 43, 5893.	1.7	24
1175	Mapping Twisted Light into and out of a Photonic Chip. Physical Review Letters, 2018, 121, 233602.	2.9	59

#	ARTICLE	IF	CITATIONS
1176	Orbital Angular Momentum Multiplexed Free-Space Optical Communication Systems Based on Coded Modulation. Applied Sciences (Switzerland), 2018, 8, 2179.	1.3	11
1177	Measuring singularities of cylindrically structured light beams using a radial grating. Applied Physics Letters, 2018, 113, 221108.	1.5	12
1178	Twisted beam shaping by plasma photonic crystal. Journal of Applied Physics, 2018, 124, .	1.1	10
1179	Quantifying single plasmonic nanostructure far-fields with interferometric and polarimetric k-space microscopy. Light: Science and Applications, 2018, 7, 65.	7.7	19
1180	Generation of elliptic perfect optical vortex and elliptic perfect vector beam by modulating the dynamic and geometric phase. Applied Physics Letters, 2018, 113, .	1.5	23
1181	Measuring orbital angular momentums of light based on petal interference patterns. OSA Continuum, 2018, 1, 451.	1.8	23
1182	Mixed orbital angular momentum amplitude shift keying through a single hologram. OSA Continuum, 2018, 1, 295.	1.8	15
1183	Close-packed optical vortex lattices with controllable structures. Optics Express, 2018, 26, 22965.	1.7	33
1184	Metasurface-based broadband orbital angular momentum generator in millimeter wave region. Optics Express, 2018, 26, 25693.	1.7	84
1185	Tailoring arbitrary polarization states of light through scattering media. Applied Physics Letters, 2018, 113, .	1.5	22
1186	Integrated design of $\pi/2$ converter and its experimental performance. Applied Optics, 2018, 57, 6076.	0.9	15
1187	Non-ring perfect optical vortices with p-th order symmetry generated using composite diffractive optical elements. Applied Physics Letters, 2018, 113, 171105.	1.5	10
1188	Generation of Orbital Angular Momentum Beam Using Fiber-to-Fiber Butt Coupling. IEEE Photonics Journal, 2018, 10, 1-7.	1.0	11
1189	Utilizing the Momentum in Orbital Angular Momentum: Augmented OAM induced by a $\frac{\pi}{2}$ Aperture of Three Elements. Scientific Reports, 2018, 8, 15638.	1.6	2
1190	A High-Gain Transmitarray for Generating Dual-Mode OAM Beams. IEEE Access, 2018, 6, 61006-61013.	2.6	35
1191	Generation of a Lattice of Spin-Orbit Beams via Coherent Averaging. Physical Review Letters, 2018, 121, 183602.	2.9	27
1192	Optical images rotation and reflection with engineered orbital angular momentum spectrum. Applied Physics Letters, 2018, 113, .	1.5	18
1193	Spin-dependent OAM flipping in multihelical optical fibres. Journal of Optics (United Kingdom), 2018, 20, 115601.	1.0	9

#	ARTICLE	IF	CITATIONS
1194	High-performance broadband vortex beam generator based on double-layered reflective metasurface. AIP Advances, 2018, 8, .	0.6	18
1195	Tripling the Capacity of Optical Vortices by Nonlinear Metasurface. Laser and Photonics Reviews, 2018, 12, 1800164.	4.4	44
1196	Microwave orbital angular momentum mode multiplexing using circular slot antenna. , 2018, , .		0
1197	Measuring the orbital angular momentum spectrum with a single point detector. Optics Letters, 2018, 43, 4607.	1.7	6
1198	Interaction of an Archimedean spiral structure with orbital angular momentum light. New Journal of Physics, 2018, 20, 095005.	1.2	20
1199	Adaptive turbulence compensation with a hybrid input-output algorithm in orbital angular momentum-based free-space optical communication. Applied Optics, 2018, 57, 7644.	0.9	48
1200	The Orbital Angular Momentum Encoding System With Radial Indices of Laguerre-Gaussian Beam. IEEE Photonics Journal, 2018, 10, 1-11.	1.0	43
1201	Acousto-optic generation of orbital angular momentum states of light in a tapered optical fiber. Current Applied Physics, 2018, 18, 1441-1446.	1.1	2
1202	Tunable Orbital Angular Momentum Radiation from Angular-Momentum-Biased Microcavities. Physical Review Letters, 2018, 121, 103901.	2.9	25
1203	Formation of high-quality vortex laser beams with different orbital angular momenta in the laser resonator. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1599.	0.8	7
1204	Plasmon-Enhanced Spin-Orbit Interaction of Light in Graphene. Laser and Photonics Reviews, 2018, 12, 1800140.	4.4	10
1205	Polygonal Vortex Beams. IEEE Photonics Journal, 2018, 10, 1-16.	1.0	29
1206	Estimation and Compensation for RF Chain Mismatch in UCA OAM Radio Systems. IEEE Communications Letters, 2018, 22, 2274-2277.	2.5	6
1207	Recent advances on optical vortex generation. Nanophotonics, 2018, 7, 1533-1556.	2.9	238
1208	Structured Light Communications: Devices, Techniques and Applications. , 2018, , .		0
1209	Laser communication based on a multi-channel single-photon detector. Optics Communications, 2018, 426, 89-93.	1.0	7
1210	Reconstructing a plasmonic metasurface for a broadband high-efficiency optical vortex in the visible frequency. Nanoscale, 2018, 10, 12378-12385.	2.8	13
1211	Metasurface-assisted orbital angular momentum carrying Bessel-Gaussian Laser: proposal and simulation. Scientific Reports, 2018, 8, 8038.	1.6	24

#	ARTICLE	IF	CITATIONS
1212	On Performance of Optical Wireless Communication With Spatial Multiplexing Towards 5-G. IEEE Access, 2018, 6, 28108-28113.	2.6	9
1213	Observation of Rotational Doppler Effect in Second Harmonic Generation in Reflection Mode. Laser and Photonics Reviews, 2018, 12, 1700204.	4.4	19
1214	Spiral photonic crystal fiber structure for supporting orbital angular momentum modes. Optik, 2018, 169, 361-367.	1.4	16
1215	Ultra-broadband on-chip twisted light emitter for optical communications. Light: Science and Applications, 2018, 7, 18001-18001.	7.7	136
1216	Core Concept: "Twisted" light beams promise an optical revolution. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 5621-5623.	3.3	6
1217	Ring quantum cascade lasers with twisted wavefronts. Scientific Reports, 2018, 8, 7998.	1.6	7
1218	Generation of coupled radio frequency orbital angular momentum beam with an optical-controlled circular antenna array. Optics Communications, 2018, 426, 126-129.	1.0	8
1219	On-Chip Detection of Orbital Angular Momentum Beam by Plasmonic Nanogratings. Laser and Photonics Reviews, 2018, 12, 1700331.	4.4	54
1220	Characterizing turbulence-induced orbital angular momentum modes on Gaussian "Schell model beam in the atmosphere with wave-front correction. Optik, 2018, 171, 678-685.	1.4	1
1221	Mode-locked all-fiber laser generating optical vortex pulses with tunable repetition rate. Applied Physics Letters, 2018, 112, .	1.5	30
1222	Indoor Propagation of Electromagnetic Waves with Orbital Angular Momentum at 5.8 GHz. International Journal of Antennas and Propagation, 2018, 2018, 1-9.	0.7	4
1223	Propagation properties of partially coherent Lommel beams in non-Kolmogorov turbulence. Optics Communications, 2018, 427, 79-84.	1.0	13
1224	Multiple OAM modes generated by patch antenna. , 2018, , .		0
1225	Transmission-Reflection-Integrated Multifunctional Coding Metasurface for Full-Space Controls of Electromagnetic Waves. Advanced Functional Materials, 2018, 28, 1802205.	7.8	221
1226	Analysis of the orbital angular momentum spectrum for Laguerre-Gaussian beams under moderate-to-strong marine-atmospheric turbulent channels. Optics Communications, 2018, 426, 471-476.	1.0	17
1227	Generation of Orbital Angular Momentum by a Point Defect in Photonic Crystals. Physical Review Applied, 2018, 10, .	1.5	24
1228	Diffraction characteristics of a Laguerre-Gaussian beam through a Maksutov-Cassegrain optical system. Applied Optics, 2018, 57, 2570.	0.9	7
1229	Shaping light with nonlinear metasurfaces. Advances in Optics and Photonics, 2018, 10, 309.	12.1	71

#	ARTICLE	IF	CITATIONS
1230	Far-field pattern formation by manipulating the topological charges of square-shaped optical vortex lattices. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 402.	0.9	19
1231	Photonic orbital angular momentum transfer and magnetic skyrmion rotation. <i>Optics Express</i> , 2018, 26, 8778.	1.7	39
1232	Generating and synthesizing ultrabroadband twisted light using a compact silicon chip. <i>Optics Letters</i> , 2018, 43, 3140.	1.7	25
1233	Synthesis of Im-Bessel correlated beams via coherent modes. <i>Optics Letters</i> , 2018, 43, 3590.	1.7	44
1234	Focusing properties of circle Pearcey beams. <i>Optics Letters</i> , 2018, 43, 3626.	1.7	115
1235	Spin-controlled twisted laser beams: intra-cavity multi-tasking geometric phase metasurfaces. <i>Optics Express</i> , 2018, 26, 905.	1.7	25
1236	Nonparaxial propagation of the Chirped Airy vortex beams in uniaxial crystal orthogonal to the optical axis. <i>Optics Express</i> , 2018, 26, 1290.	1.7	32
1237	Phase-engineered metalenses to generate converging and non-diffractive vortex beam carrying orbital angular momentum in microwave region. <i>Optics Express</i> , 2018, 26, 1351.	1.7	222
1238	Dynamic shaping of orbital-angular-momentum beams for information encoding. <i>Optics Express</i> , 2018, 26, 1796.	1.7	41
1239	De-multiplexing vortex modes in optical communications using transport-based pattern recognition. <i>Optics Express</i> , 2018, 26, 4004.	1.7	56
1240	Compressive optical interferometry under structural constraints. <i>Optics Express</i> , 2018, 26, 5225.	1.7	1
1241	Interplay between topological phase and self-acceleration in a vortex symmetric Airy beam. <i>Optics Express</i> , 2018, 26, 7324.	1.7	43
1242	Adaptive water-air-water data information transfer using orbital angular momentum. <i>Optics Express</i> , 2018, 26, 8669.	1.7	55
1243	Angular lens. <i>Optics Express</i> , 2018, 26, 8709.	1.7	21
1244	Directly using 88-km conventional multi-mode fiber for 6-mode orbital angular momentum multiplexing transmission. <i>Optics Express</i> , 2018, 26, 10038.	1.7	88
1245	Joint atmospheric turbulence detection and adaptive demodulation technique using the CNN for the OAM-FSO communication. <i>Optics Express</i> , 2018, 26, 10494.	1.7	142
1246	Multilevel quadrature amplitude multiplexing using coherently coupled orbital angular momentum modes. <i>Optics Express</i> , 2018, 26, 12180.	1.7	7
1247	On-chip generation of time-and wavelength-division multiplexed multiple time-bin entanglement. <i>Optics Express</i> , 2018, 26, 12912.	1.7	19

#	ARTICLE	IF	CITATIONS
1248	Proposed phase plate for superimposed orbital angular momentum state generation. Optics Express, 2018, 26, 14792.	1.7	16
1249	Spatially-distributed orbital angular momentum beam array generation based on greedy algorithms and coherent combining technology. Optics Express, 2018, 26, 14945.	1.7	24
1250	Orbital angular momentum modes emission from a silicon photonic integrated device for km-scale data-carrying fiber transmission. Optics Express, 2018, 26, 15471.	1.7	24
1251	Feedback-enabled adaptive underwater twisted light transmission link utilizing the reflection at the air-water interface. Optics Express, 2018, 26, 16102.	1.7	23
1252	Restriction on orbital angular momentum distribution: a role of media in vortex beams propagation. Optics Express, 2018, 26, 17227.	1.7	8
1253	All-fiber stable orbital angular momentum beam generation and propagation. Optics Express, 2018, 26, 17429.	1.7	32
1254	Control the orbital angular momentum in third-harmonic generation using quasi-phase-matching. Optics Express, 2018, 26, 17563.	1.7	15
1255	Generation of wavelength- and OAM-tunable vortex beam at low threshold. Optics Express, 2018, 26, 18164.	1.7	21
1256	Polarization-independent all-silicon dielectric metasurfaces in the terahertz regime. Photonics Research, 2018, 6, 24.	3.4	77
1257	Experimental realization to efficiently sort vector beams by polarization topological charge via Pancharatnamâ€Berry phase modulation. Photonics Research, 2018, 6, 385.	3.4	31
1258	Vector beam tuning with axisymmetric dielectric micro helical cone. IEEE Journal of Selected Topics in Quantum Electronics, 2018, , 1-1.	1.9	1
1259	Orbital angular momentum channel monitoring of coaxially multiplexed vortices by diffraction pattern analysis. Applied Optics, 2018, 57, 1056.	0.9	10
1260	Broadband and high-efficiency vortex beam generator based on a hybrid helix array. Optics Letters, 2018, 43, 1538.	1.7	19
1261	High-power, continuous-wave, tunable mid-IR, higher-order vortex beam optical parametric oscillator. Optics Letters, 2018, 43, 2312.	1.7	14
1262	Spectral density of vortex beams propagating in atmospheric turbulence with new simulation method. Optics Letters, 2018, 43, 2478.	1.7	8
1263	Turbulence correction with artificial neural networks. Optics Letters, 2018, 43, 2611.	1.7	100
1264	Radiation hardened high-power Er ³⁺ /Yb ³⁺ -codoped fiber amplifiers for free-space optical communications. Optics Letters, 2018, 43, 3049.	1.7	25
1265	Dynamic computer-generated nonlinear optical holograms in a non-collinear second-harmonic generation process. Optics Letters, 2018, 43, 3236.	1.7	25

#	ARTICLE	IF	CITATIONS
1266	Astigmatic laser beams with a large orbital angular momentum. Optics Express, 2018, 26, 141.	1.7	33
1267	Experimental characterization of continuous-variable orbital angular momentum entanglement using Stokes-operator basis. Optics Express, 2018, 26, 5724.	1.7	5
1268	Interferometric spatial mode analyzer with a bucket detector. Optics Express, 2018, 26, 8719.	1.7	6
1269	Dielectric metasurfaces enabling twisted light generation/detection/(de)multiplexing for data information transfer. Optics Express, 2018, 26, 13183.	1.7	22
1270	LED-based visible light communication for color image and audio transmission utilizing orbital angular momentum superposition modes. Optics Express, 2018, 26, 17300.	1.7	14
1271	On-chip switchable radially and azimuthally polarized vortex beam generation. Optics Letters, 2018, 43, 1263.	1.7	28
1272	Parallel sorting of orbital and spin angular momenta of light in a record large number of channels. Optics Letters, 2018, 43, 2256.	1.7	21
1273	Experimental demonstration of beaconless beam displacement tracking for an orbital angular momentum multiplexed free-space optical link. Optics Letters, 2018, 43, 2392.	1.7	8
1274	400-Gbit/s QPSK free-space optical communication link based on four-fold multiplexing of Hermite-Gaussian or Laguerre-Gaussian modes by varying both modal indices. Optics Letters, 2018, 43, 3889.	1.7	55
1275	All-fiber radially/azimuthally polarized lasers based on mode coupling of tapered fibers. Optics Letters, 2018, 43, 1590.	1.7	35
1276	Five-vortex spot patterns generated by diffraction of azimuthally X-shaped beam from a fork-shaped grating. Optics Communications, 2018, 428, 206-215.	1.0	3
1277	Direct detection of the optical field beyond single polarization mode. Optics Express, 2018, 26, 3368.	1.7	22
1278	Electrically activated spin-controlled orbital angular momentum multiplexer. Applied Physics Letters, 2018, 113, .	1.5	7
1279	Electrically driven generation of arbitrary vector vortex beams on the hybrid-order Poincaré sphere. Optics Letters, 2018, 43, 3570.	1.7	42
1280	Nanoscale control over optical singularities. Optica, 2018, 5, 283.	4.8	39
1281	Integrated (de)multiplexer for orbital angular momentum fiber communication. Photonics Research, 2018, 6, 743.	3.4	69
1282	Orbital angular momentum mode multiplexed transmission in heterogeneous few-mode and multi-mode fiber network. Optics Letters, 2018, 43, 1894.	1.7	32
1283	18-km low-crosstalk OAM-WDM transmission with 224 individual channels enabled by a ring-core fiber with large high-order mode group separation. Optics Letters, 2018, 43, 1890.	1.7	111

#	ARTICLE	IF	CITATIONS
1284	Orbital Angular Momentum Generation and Detection by Geometric-Phase Based Metasurfaces. Applied Sciences (Switzerland), 2018, 8, 362.	1.3	73
1285	A compact diffractive sorter for high-resolution demultiplexing of orbital angular momentum beams. Scientific Reports, 2018, 8, 10248.	1.6	55
1286	An InP-based vortex beam emitter with monolithically integrated laser. Nature Communications, 2018, 9, 2652.	5.8	40
1287	Temperature Insensitivity Polarization-Controlled Orbital Angular Momentum Mode Converter Based on an LPFG Induced in Four-Mode Fiber. Sensors, 2018, 18, 1766.	2.1	10
1288	Far-field beam reshaping by manipulating the topological charges of hexagonal optical vortex lattices. Journal of Optics (United Kingdom), 2018, 20, 095601.	1.0	6
1289	Generation of phase singular optical beams in microstructure optical fibers. Optics Communications, 2018, 428, 15-21.	1.0	8
1290	Aggregate capacity optimization algorithm for large pool size multi-mode orbital angular momentum free space optical beam communication. Optics Communications, 2018, 427, 485-492.	1.0	2
1291	Shaping Polaritons to Reshape Selection Rules. ACS Photonics, 2018, 5, 3064-3072.	3.2	15
1292	Few-mode fiber Bragg grating-based multi-wavelength fiber laser with tunable orbital angular momentum beam output. Laser Physics Letters, 2018, 15, 095001.	0.6	14
1293	Circularly symmetric light waves: an overview. Journal of Optics (United Kingdom), 2018, 20, 083501.	1.0	2
1294	Orbital Angular Momentum Carrying wave scattering by the chaff clouds. IET Radar, Sonar and Navigation, 2018, 12, 649-653.	0.9	15
1295	An upper bound on the rate of information transfer in optical vortex beams. Laser Physics Letters, 2018, 15, 095202.	0.6	5
1296	Electron self-injection in the donut bubble wakefield. Physics of Plasmas, 2018, 25, 053103.	0.7	0
1297	Mitigation of crosstalk based on CSO-ICA in free space orbital angular momentum multiplexing systems. Optics Communications, 2018, 423, 200-206.	1.0	1
1298	Integration of OAM and WDM in optical wireless system by radial uniform circular array. Optics Communications, 2018, 424, 159-162.	1.0	7
1299	Theoretical Analysis of a 750-nm Bandwidth Hollow-Core Ring Photonic Crystal Fiber With a Graded Structure for Transporting 38 Orbital Angular Momentum Modes. IEEE Access, 2018, 6, 20291-20297.	2.6	38
1300	Broadband Control of Topological Nodes in Electromagnetic Fields. Physical Review Letters, 2018, 120, 193903.	2.9	3
1301	Spiral Transformation for High-Resolution and Efficient Sorting of Optical Vortex Modes. Physical Review Letters, 2018, 120, 193904.	2.9	143

#	ARTICLE	IF	CITATIONS
1302	Reconfigurable and tunable twisted light laser. Scientific Reports, 2018, 8, 11394.	1.6	27
1303	Broadband efficient vortex beam generation with metallic helix array. Applied Physics Letters, 2018, 113, .	1.5	4
1304	Modal Diversity for Robust Free-Space Optical Communications. Physical Review Applied, 2018, 10, .	1.5	31
1305	Rapid generation of perfect vortex beam without side lobes. Modern Physics Letters B, 2018, 32, 1850289.	1.0	2
1306	Polarisation-dependent transformation of vortex beams when focused perpendicular to the crystal axis. Optics Communications, 2018, 428, 63-68.	1.0	10
1307	Talbot effect on orbital angular momentum beams: azimuthal intensity repetition-rate multiplication. Optics Letters, 2018, 43, 4033.	1.7	11
1308	Detection of Orbital Angular Momentum of Light Using Cavity Optomechanics. , 2018, , .		0
1309	Evolution properties of hypergeometric-Gaussian type-II beams in strongly nonlocal nonlinear media. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1362.	0.9	12
1310	Optimization of the probability of orbital angular momentum for Laguerre-Gaussian beam in Kolmogorov and non-Kolmogorov turbulence. Optics Express, 2018, 26, 21861.	1.7	32
1311	Orbital angular momentum transition of light using a cylindrical vector beam. Optics Letters, 2018, 43, 2146.	1.7	31
1312	Free space optical communication using a shape parameter. European Physical Journal Plus, 2018, 133, 1.	1.2	0
1313	Compact high-efficiency vortex beam emitter based on a silicon photonics micro-ring. Optics Letters, 2018, 43, 1319.	1.7	19
1314	Multiple optical vortices generated by azimuthal fractal spiral zone plates based on liquid crystal spatial light modulator. Optik, 2018, 175, 344-350.	1.4	9
1315	Analysis of an adaptive orbital angular momentum shift keying decoder based on machine learning under oceanic turbulence channels. Optics Communications, 2018, 429, 138-143.	1.0	35
1316	On the use of deep neural networks in optical communications. Applied Optics, 2018, 57, 4180.	0.9	74
1317	Quantum features in the orthogonality of optical modes for structured and plane-wave light. Optics Letters, 2018, 43, 3249.	1.7	7
1318	Meta-facet fiber for twisting ultra-broadband light with high phase purity. Applied Physics Letters, 2018, 113, 061103.	1.5	11
1319	Direct generation of a narrow-linewidth Laguerre-Gaussian vortex laser in a monolithic nonplanar oscillator. Optics Letters, 2018, 43, 4164.	1.7	17

#	ARTICLE	IF	CITATIONS
1320	Nonlinear generation of Airy vortex beam. <i>Optics Express</i> , 2018, 26, 21204.	1.7	16
1321	Angular momenta, helicity, and other properties of dielectric-fiber and metallic-wire modes. <i>Optica</i> , 2018, 5, 1016.	4.8	67
1322	A dual-polarized and reconfigurable reflectarray for generation of vortex radio waves. <i>AIP Advances</i> , 2018, 8, .	0.6	7
1323	Demonstration of a terahertz pure vector beam by tailoring geometric phase. <i>Scientific Reports</i> , 2018, 8, 8690.	1.6	14
1324	High helicity vortex conversion in a rubidium vapor. <i>Physical Review A</i> , 2018, 97, .	1.0	32
1325	Spatiotemporal rapidly autofocused ring Pearcey Gaussian vortex wavepackets. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 075607.	1.0	10
1326	Generating High-Charge Optical Vortices Directly from Laser Up to 288th Order. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800019.	4.4	57
1327	Highly Efficient Broadband Multiplexed Millimeter-Wave Vortices from Metasurface-Enabled Transmit-Arrays of Subwavelength Thickness. <i>Physical Review Applied</i> , 2018, 9, .	1.5	56
1328	Manipulating the topological structure of ultrarelativistic electron beams using Laguerre-Gaussian laser pulse. <i>New Journal of Physics</i> , 2018, 20, 063004.	1.2	31
1329	Efficient Generation of Microwave Plasmonic Vortices via a Single Deep-Subwavelength Meta-Particle. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800010.	4.4	32
1330	Controlling the phase of optical nonlinearity with plasmonic metasurfaces. <i>Nanophotonics</i> , 2018, 7, 1013-1024.	2.9	30
1331	The performances of different OAM encoding systems. <i>Optics Communications</i> , 2019, 430, 151-157.	1.0	42
1332	Orbital angular momentum filter based on multiple-beam interference. <i>Optics Communications</i> , 2019, 430, 98-103.	1.0	6
1333	Vectorial vortex beam detection using plasmonic interferences on a structured gold film. <i>Optics and Laser Technology</i> , 2019, 109, 241-248.	2.2	3
1334	Efficient mid-Infrared vortex beam generation using optical waveguides integrated with micro-spiral phase plates. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 105801.	1.0	4
1335	Scalar and Vector Solitons in a Bidirectional Mode-Locked Fibre Laser. <i>Journal of Lightwave Technology</i> , 2019, 37, 5108-5114.	2.7	10
1336	Controlled generation of array beams of higher order orbital angular momentum and study of their frequency-doubling characteristics. <i>Scientific Reports</i> , 2019, 9, 10916.	1.6	8
1337	Dressed optical vortex in a hot atomic medium. <i>Laser Physics Letters</i> , 2019, 16, 096001.	0.6	0

#	ARTICLE	IF	CITATIONS
1338	Green/red pulsed vortex-beam oscillations in all-fiber lasers with visible-resonance gold nanorods. <i>Nanoscale</i> , 2019, 11, 15991-16000.	2.8	19
1339	Demonstration of a Multiplane OAM-Wavelength Packet Switch Controlled by a Two-Step Scheduler Implemented in FPGAs. <i>Journal of Lightwave Technology</i> , 2019, 37, 3948-3955.	2.7	3
1340	Vortex beam of tilted orbital angular momentum generated from grating. <i>Plasma Physics and Controlled Fusion</i> , 2019, 61, 105001.	0.9	6
1341	Graphene Oxide Waveguide and Micro-Ring Resonator Polarizers. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900056.	4.4	66
1342	Phase recovery with the optical vortex microscope. <i>Measurement Science and Technology</i> , 2019, 30, 105202.	1.4	8
1343	Tailored laser vector fields for high-precision micro-manufacturing. <i>CIRP Annals - Manufacturing Technology</i> , 2019, 68, 193-196.	1.7	4
1344	Atomically Thin Nonlinear Transition Metal Dichalcogenide Holograms. <i>Nano Letters</i> , 2019, 19, 6511-6516.	4.5	61
1345	Ultrafast vortices generation at low pump power and shearing interferometer-based vortex topological detection. <i>Laser Physics Letters</i> , 2019, 16, 035302.	0.6	18
1346	Achieving Practical OAM Based Wireless Communications with Misaligned Transceiver. , 2019, , .		18
1347	GENERATION OF ULTRA-WIDEBAND MULTI-MODE VORTEX WAVES BASED ON MONOLAYER REFLECTIVE METASURFACE. <i>Progress in Electromagnetics Research M</i> , 2019, 80, 111-120.	0.5	5
1348	Generation of Collimated Bright Gamma Rays with Controllable Angular Momentum Using Intense Laguerre-Gaussian Laser Pulses. <i>Physical Review Applied</i> , 2019, 12, .	1.5	15
1349	Orbital-Angular-Momentum Multiplexed Continuous-Variable Entanglement from Four-Wave Mixing in Hot Atomic Vapor. <i>Physical Review Letters</i> , 2019, 123, 070506.	2.9	83
1350	Millimeter-Wave OAM Dipole Array with Reflector. , 2019, , .		1
1351	Properties of a Tightly Focused Circularly Polarized Anomalous Vortex Beam and Its Optical Forces on Trapped Nanoparticles. <i>Nanoscale Research Letters</i> , 2019, 14, 252.	3.1	13
1352	Optical Vortex Transmutation with Geometric Metasurfaces of Rotational Symmetry Breaking. <i>Advanced Optical Materials</i> , 2019, 7, 1901152.	3.6	11
1353	Performance Enhancement of an Orbital-Angular-Momentum-Multiplexed Free-Space Optical Link Under Atmospheric Turbulence Effects Using Spatial-Mode Multiplexing and Hybrid Diversity Based on Adaptive MIMO Equalization. <i>IEEE Access</i> , 2019, 7, 84401-84412.	2.6	90
1354	Metasurface orbital angular momentum holography. <i>Nature Communications</i> , 2019, 10, 2986.	5.8	303
1355	Self-focusing of multiple interacting Laguerre-Gauss beams in Kerr media. <i>Physical Review A</i> , 2019, 100, .	1.0	12

#	ARTICLE	IF	CITATIONS
1356	First-principles methodology for determining the angular momentum of excitons. <i>Physical Review B</i> , 2019, 100, .	1.1	1
1357	All-dielectric metasurfaces for generation and detection of multi-channel vortex beams. <i>Applied Physics Express</i> , 2019, 12, 082004.	1.1	6
1358	Review on vortex beams with low spatial coherence. <i>Advances in Physics: X</i> , 2019, 4, 1626766.	1.5	27
1359	Generation of arbitrary polarized OAM mode based on a fiber mode selective coupler. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 085705.	1.0	7
1360	Multiplexing heralded single photons in orbital-angular-momentum space. <i>Physical Review A</i> , 2019, 100, .	1.0	6
1361	Uniaxial transition dipole moments in semiconductor quantum rings caused by broken rotational symmetry. <i>Nature Communications</i> , 2019, 10, 3253.	5.8	19
1362	Spatial variation of vector vortex beams with plasmonic metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9969.	1.6	16
1363	High harmonic generation with Laguerreâ€“Gaussian beams. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 094001.	1.0	31
1364	OAM Modes Exchanging by Controlling Polarization of Vortex Beams Propagating Through an FMF-Based Polarization Controller. <i>IEEE Journal of Quantum Electronics</i> , 2019, 55, 1-8.	1.0	3
1365	Highâ€“Efficiency Ultrathin Dualâ€“Wavelength Pancharatnamâ€“Berry Metasurfaces with Complete Independent Phase Control. <i>Advanced Optical Materials</i> , 2019, 7, 1900594.	3.6	67
1366	Vortex mode excitation in a multimode fiber by the Laguerre-Gaussian laser beams. <i>Optical and Quantum Electronics</i> , 2019, 51, 1.	1.5	2
1367	Spin-Orbit Angular Momentum Conversion in Metamaterials and Metasurfaces. <i>Quantum Reports</i> , 2019, 1, 91-106.	0.6	8
1368	High-dimensional quantum key distribution based on qudits transmission with quantum Fourier transform. <i>Quantum Information Processing</i> , 2019, 18, 1.	1.0	17
1369	Average capacity of wireless optical links using Laguerre-Gaussian beam through non-Kolmogorov turbulence based on generalized modified atmospheric spectral model. <i>Optics Communications</i> , 2019, 452, 487-493.	1.0	3
1370	Rotman Lens-Fed Fabry-Perot Resonator Antennas for Generating Converged Multi-Mode OAM Beams. <i>IEEE Access</i> , 2019, 7, 105768-105775.	2.6	15
1371	The propagation parameters of a Lommelâ€“Gaussian beam in atmospheric turbulence. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	1
1372	Measuring the Topological Charge of Orbital Angular Momentum Beams by Utilizing Weak Measurement Principle. <i>Scientific Reports</i> , 2019, 9, 7993.	1.6	9
1373	Special Issue on Novel Insights into Orbital Angular Momentum Beams: From Fundamentals, Devices to Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2600.	1.3	3

#	ARTICLE	IF	CITATIONS
1374	Experimental Observation of Linear and Rotational Doppler Shifts from Several Designer Surfaces. Scientific Reports, 2019, 9, 8971.	1.6	25
1375	Generation of concentric perfect Poincaré beams. Scientific Reports, 2019, 9, 15301.	1.6	7
1376	Detuning control of Rabi vortex oscillations in light-matter coupling. Physical Review B, 2019, 100, .	1.1	3
1377	Liquidâ€Crystalâ€Mediated Geometric Phase: From Transmissive to Broadband Reflective Planar Optics. Advanced Materials, 2020, 32, e1903665.	11.1	124
1378	Microstructure ring fiber for supporting higher-order orbital angular momentum modes with flattened dispersion in broad waveband. Applied Physics B: Lasers and Optics, 2019, 125, 1.	1.1	17
1379	Topological Charge Detection Using Generalized Contour-Sum Method from Distorted Donut-Shaped Optical Vortex Beams: Experimental Comparison of Closed Path Determination Methods. Applied Sciences (Switzerland), 2019, 9, 3956.	1.3	3
1380	Non-Kolmogorov atmospheric turbulence and orbital angular momentum of entangled states for optical communication. Results in Physics, 2019, 15, 102676.	2.0	7
1381	Generation and detection of spin-orbit coupled neutron beams. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20328-20332.	3.3	29
1382	Effectively Identifying the Topological Charge and Polarization Order of Arbitrary Singular Light Beams Based on Orthogonal Polarization Separating. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	1
1383	A NOVEL IMAGE FORMATION METHOD FOR ELECTROMAGNETIC VORTEX SAR WITH ORBITAL-ANGULAR-MOMENTUM. Progress in Electromagnetics Research M, 2019, 82, 129-137.	0.5	0
1384	Three different types of astigmatic Hermite-Gaussian beams with orbital angular momentum. Journal of Optics (United Kingdom), 2019, 21, 115601.	1.0	17
1385	Monocharged Electret Nanogenerators: A Monocharged Electret Nanogeneratorâ€Based Selfâ€Powered Device for Pressure and Tactile Sensor Applications (Adv. Funct. Mater. 41/2019). Advanced Functional Materials, 2019, 29, 1970284.	7.8	3
1386	Asymmetric optical vortex in plasma density gradient. Plasma Physics and Controlled Fusion, 2019, 61, 125003.	0.9	1
1387	Optical Orbital Angular Momentum Shift-Keying Communication Using Direct Demodulation. IEEE Access, 2019, 7, 103433-103442.	2.6	4
1388	Spatially dependent four-wave mixing in semiconductor quantum wells. Applied Physics Letters, 2019, 115, .	1.5	31
1389	Superhigh-Resolution Recognition of Optical Vortex Modes Assisted by a Deep-Learning Method. Physical Review Letters, 2019, 123, 183902.	2.9	132
1390	Local characteristics of paraxial Laguerreâ€Gaussian vortex beams with a zero total angular momentum. Journal of Modern Optics, 2019, 66, 1961-1972.	0.6	11
1391	Geometric Phase Based Circular Array for Multimode Vortex Beam Generation. Annalen Der Physik, 2019, 531, 1900367.	0.9	1

#	ARTICLE	IF	CITATIONS
1392	Orbital angular momentum mode generation system based on photonic lantern. Journal of Optics (United Kingdom), 2019, 21, 125702.	1.0	9
1393	Nonlinear Beam Shaping in Domain Engineered Ferroelectric Crystals. Advanced Materials, 2020, 32, e1903775.	11.1	32
1394	High-order cylindrical vector beams with tunable topological charge up to 14 directly generated from a microchip laser with high beam quality and high efficiency. APL Photonics, 2019, 4, 106106.	3.0	22
1395	Optically Controlling the Emission Chirality of Microlasers. , 2019, , .		0
1396	Detecting Orbital Angular Momentum Modes of Vortex Beams Using Feed-Forward Neural Network. Journal of Lightwave Technology, 2019, 37, 5848-5855.	2.7	24
1397	Propagation and orbital angular momentum of vortex beams generated from a spiral phase plate-fiber. Laser Physics Letters, 2019, 16, 035106.	0.6	2
1398	Nonlinear conversion of orbital angular momentum in tungsten disulfide monolayer. Journal of Optics (United Kingdom), 2019, 21, 125404.	1.0	6
1399	A polarization-independent blue phase liquid crystal on silicon with low operation voltage. Scientific Reports, 2019, 9, 16900.	1.6	9
1400	Polarization-Insensitive Metasurface Lens for Efficient Generation of Convergent OAM Beams. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2696-2700.	2.4	23
1401	Controllable rotation of multiplexing elliptic optical vortices. Journal Physics D: Applied Physics, 2019, 52, 495103.	1.3	19
1402	Quantum imaging and information. Reports on Progress in Physics, 2019, 82, 124401.	8.1	48
1403	Comparison of three kinds of polarized Bessel vortex beams propagating through uniaxial anisotropic media. Chinese Physics B, 2019, 28, 094214.	0.7	2
1404	Study on the Terahertz Vortex Imaging based on Spiral Phase Plates. , 2019, , .		0
1405	Efficiency and Crosstalk in Demultiplexing Orbital Angular Momentum Modes Using a Spiral Phase Plate. , 2019, , .		2
1406	Orbital Angular Momentum Multiplexing under Partial Angular Aperture Receiving with Multiple Receiving Elements. , 2019, , .		0
1407	High-Order Vortex Generation From CW and Passively Q-Switched Pr:YLF Visible Lasers. IEEE Photonics Technology Letters, 2019, 31, 1457-1460.	1.3	20
1408	Low-loss planar components for THz wireless communications. , 2019, , .		0
1409	Ghost imaging using entanglement-swapped photons. Npj Quantum Information, 2019, 5, .	2.8	29

#	ARTICLE	IF	CITATIONS
1410	Generation of Orbital Angular Momentum in 3D Photonic Crystals. , 2019, , .		0
1411	Near-Infrared OAM Communication Using 3D-Printed Microscale Spiral Phase Plates. IEEE Communications Magazine, 2019, 57, 65-69.	4.9	25
1412	Near-Field Orbital Angular Momentum Generation and Detection Based on Spin-Orbit Interaction in Gold Metasurfaces. Advanced Theory and Simulations, 2019, 2, 1900133.	1.3	14
1413	Secure Range-Dependent Transmission With Orbital Angular Momentum. IEEE Communications Letters, 2019, 23, 1178-1181.	2.5	11
1414	Transformation of the singular skeleton in optical-vortex beams diffracted by a rectilinear phase step. Journal of Optics (United Kingdom), 2019, 21, 084003.	1.0	3
1415	Raman Techniques: Fundamentals and Frontiers. Nanoscale Research Letters, 2019, 14, 231.	3.1	368
1416	Low-Loss Planar Components for THz Wireless Communications. , 2019, , .		0
1417	Visible-Wavelength All-Fiber Vortex Laser. IEEE Photonics Technology Letters, 2019, 31, 1487-1490.	1.3	9
1418	Broad spiral bandwidth of orbital angular momentum interface between photon and memory. Communications Physics, 2019, 2, .	2.0	5
1419	Measuring phase and polarization singularities of light using spin-multiplexing metasurfaces. Nanoscale, 2019, 11, 18303-18310.	2.8	22
1420	Comprehensive investigation on producing high-power orbital angular momentum beams by coherent combining technology. High Power Laser Science and Engineering, 2019, 7, .	2.0	39
1421	Efficient nonlinear beam shaping in three-dimensional lithium niobate nonlinear photonic crystals. Nature Communications, 2019, 10, 4193.	5.8	114
1422	Modification of the Gerchberg-Saxton algorithm for the generation of speckle-reduced intensity distributions of micrometer and submicrometer dimensions. Optik, 2019, 195, 163163.	1.4	7
1423	Performance analysis of d -dimensional quantum cryptography under state-dependent diffraction. Physical Review A, 2019, 100, .	1.0	9
1424	Generation of Broadband High-Purity Dual-Mode OAM Beams Using A Four-Feed Patch Antenna: Theory and Implementation. Scientific Reports, 2019, 9, 12977.	1.6	22
1425	Analysis and Design of a Broadband Metasurface- Based Vortex Beam Generator. IEEE Access, 2019, 7, 129529-129536.	2.6	4
1426	High-Speed Directly Modulated Cylindrical Vector Beam Lasers. ACS Photonics, 2019, 6, 3261-3270.	3.2	17
1427	An Effective Way for Simulating Oceanic Turbulence Channel on the Beam Carrying Orbital Angular Momentum. Scientific Reports, 2019, 9, 14009.	1.6	29

#	ARTICLE	IF	CITATIONS
1428	Optical vortices 30 years on: OAM manipulation from topological charge to multiple singularities. Light: Science and Applications, 2019, 8, 90.	7.7	1,151
1429	Topological Charge Inversion of Optical Vortex with Geometric Metasurfaces. Advanced Optical Materials, 2019, 7, 1801486.	3.6	15
1430	Performance analysis of the OAM based optical wireless communication systems with partially coherent elegant Laguerre-Gaussian beams in oceanic turbulence. Journal of Optics (United Kingdom), 2019, 21, 035702.	1.0	11
1431	Analysis and Experiments on Reflection and Refraction of Orbital Angular Momentum Waves. IEEE Transactions on Antennas and Propagation, 2019, 67, 2085-2094.	3.1	31
1432	Interferograms of Vortex FWM Beam for Nonlinear Spatial Filter in Photonic Band Gap. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	0
1433	Experimental demonstration of angular momentum-dependent topological transport using a transmission line network. Nature Communications, 2019, 10, 434.	5.8	14
1434	Symmetry in the diffraction of beams carrying orbital angular momentum. Physical Review A, 2019, 99, .	1.0	11
1435	Detecting the topological charge of partially coherent electromagnetic vortex beams through the orientation angle of polarization. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 228, 11-16.	1.1	1
1436	Radial-profile-customized orbital-angular-momentum modes: Featuring tailored Gaussian intensity pattern at target receiving plane. Optics Communications, 2019, 438, 83-89.	1.0	2
1437	Compton Scattering of \hat{I}^3 -Ray Vortex with Laguerre Gaussian Wave Function. Scientific Reports, 2019, 9, 51.	1.6	10
1438	Mitigation of atmospheric turbulence with random light carrying OAM. Optics Communications, 2019, 446, 178-185.	1.0	33
1439	Robust transmission of orbital angular momentum mode based on a dual-cladding photonic quasi-crystal fiber. Journal Physics D: Applied Physics, 2019, 52, 325110.	1.3	67
1440	Phase detection of coherence singularities and determination of the topological charge of a partially coherent vortex beam. Applied Physics Letters, 2019, 114, .	1.5	34
1441	Manipulation for Superposition of Orbital Angular Momentum States in Surface Plasmon Polaritons. Advanced Optical Materials, 2019, 7, 1900372.	3.6	31
1442	Light-Activated Liquid Crystalline Hierarchical Architecture Toward Photonics. Advanced Optical Materials, 2019, 7, 1900393.	3.6	29
1443	60 Gbit/s coherent wavelength-division multiplexing free-space optical modulating retro-reflector in a turbulence-tunable atmospheric cell. Optics Communications, 2019, 448, 111-115.	1.0	14
1444	OFDM-OAM Modulation for Future Wireless Communications. IEEE Access, 2019, 7, 59114-59125.	2.6	31
1445	Optical vortex fiber laser based on modulation of transverse modes in two mode fiber. APL Photonics, 2019, 4, .	3.0	20

#	ARTICLE	IF	CITATIONS
1446	A New Twist for Materials Science: The Formation of Chiral Structures Using the Angular Momentum of Light. <i>Advanced Optical Materials</i> , 2019, 7, 1801672.	3.6	89
1447	Second-harmonic optical vortex conversion from WS ₂ monolayer. <i>Scientific Reports</i> , 2019, 9, 8780.	1.6	12
1448	Retrieving Performances of Vortex Beams with GS Algorithm after Transmitting in Different Types of Turbulences. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2269.	1.3	21
1449	Orbital angular momentum transformation of optical vortex with aluminum metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9133.	1.6	20
1450	Wavelength and polarization multiplexed optical vortex demultiplexer. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 375104.	1.3	4
1451	Orbital Angular Momentum Beam Generation Using Textured Surfaces. , 2019, , 363-392.		0
1452	Knotting fractional-order knots with the polarization state of light. <i>Nature Photonics</i> , 2019, 13, 569-574.	15.6	77
1453	Topological Photonic Media and the Possibility of Toroidal Electromagnetic Wavepackets. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1468.	1.3	2
1454	Generation of orbital angular momentum mode using a single cylindrical vector mode based on mode selective coupler. <i>Optical Fiber Technology</i> , 2019, 52, 101934.	1.4	6
1455	Ultra-compact broadband polarization diversity orbital angular momentum generator with 3.6 Å— 3.6 Î¼m footprint. <i>Science Advances</i> , 2019, 5, eaau9593.	4.7	59
1456	Terahertz Vortex Beam as a Spectroscopic Probe of Magnetic Excitations. <i>Physical Review Letters</i> , 2019, 122, 237401.	2.9	60
1457	Experiments of Orbital Angular Momentum Phase Properties for Long-Distance Transmission. <i>IEEE Access</i> , 2019, 7, 62689-62694.	2.6	26
1458	Efficiency and Crosstalk in Demultiplexing Orbital Angular Momentum Modes using a Geometrical Transformation-based Mode Sorter. , 2019, , .		2
1459	The Orbital Angular Momentum Fiber Modes for Magnetic Field Sensing. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 893-896.	1.3	24
1460	Design and analysis of dual-band antenna array generating dual-mode vortex electromagnetic waves. <i>Microwave and Optical Technology Letters</i> , 2019, 61, 2275-2281.	0.9	6
1461	Limited-size aperture effects in an orbital-angular-momentum-multiplexed free-space optical data link between a ground station and a retro-reflecting UAV. <i>Optics Communications</i> , 2019, 450, 241-245.	1.0	6
1462	A Free-Space Orbital Angular Momentum Multiplexing Communication System Based on a Metasurface. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800278.	4.4	51
1463	Holographic-Inspired Multiple Circularly Polarized Vortex-Beam Generation with Flexible Topological Charges and Beam Directions. <i>Physical Review Applied</i> , 2019, 11, .	1.5	19

#	ARTICLE	IF	CITATIONS
1464	More than 110-nm broadband mode converter based on dual-resonance coupling mechanism in long period fiber gratings. <i>Optics and Laser Technology</i> , 2019, 118, 8-12.	2.2	30
1465	Generation of Switchable Singular Beams with Dynamic Metasurfaces. <i>ACS Nano</i> , 2019, 13, 7100-7106.	7.3	58
1466	Communicating Using Spatial Mode Multiplexing: Potentials, Challenges, and Perspectives. <i>IEEE Communications Surveys and Tutorials</i> , 2019, 21, 3175-3203.	24.8	154
1467	Planar Porous Components for Low-loss Terahertz Optics. <i>Advanced Optical Materials</i> , 2019, 7, 1900236.	3.6	17
1468	Study of the properties of non-integer order vortex beams at Fraunhofer zone. <i>Journal of Modern Optics</i> , 2019, 66, 1197-1205.	0.6	1
1469	Efficient Recognition of the Propagated Orbital Angular Momentum Modes in Turbulences With the Convolutional Neural Network. <i>IEEE Photonics Journal</i> , 2019, 11, 1-14.	1.0	54
1470	Probing Higher Orbital Angular Momentum of Laguerre-Gaussian Beams via Diffraction through a Translated Single Slit. <i>Physical Review Applied</i> , 2019, 11, .	1.5	26
1471	Diatomic metasurface based broadband J-plate for arbitrary spin-to-orbital conversion. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 324002.	1.3	11
1472	The Formation of Single-Photon IR Wave Packets with an Orbital Angular Momentum Using Vortex Phase Plates. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2019, 126, 25-28.	0.2	0
1473	3D Janus plasmonic helical nanoapertures for polarization-encrypted data storage. <i>Light: Science and Applications</i> , 2019, 8, 45.	7.7	140
1474	Generation of Orbital Angular Momentum Modes Using Fiber Systems. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1033.	1.3	39
1475	Dual-Band High Efficiency Terahertz Meta-Devices Based on Reflective Geometric Metasurfaces. <i>IEEE Access</i> , 2019, 7, 58131-58138.	2.6	22
1476	Nonlinear Metasurface for Structured Light with Tunable Orbital Angular Momentum. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 958.	1.3	9
1477	Propagation of a radially polarized partially coherent rotating elliptical cosine-Gaussian beam with vortices in anisotropic turbulence. <i>Applied Physics B: Lasers and Optics</i> , 2019, 125, 1.	1.1	10
1478	Observation of three-dimensional periodic vortex photonic lattices. <i>Superlattices and Microstructures</i> , 2019, 130, 147-152.	1.4	2
1479	Spatially and spectrally resolved orbital angular momentum interactions in plasmonic vortex generators. <i>Light: Science and Applications</i> , 2019, 8, 33.	7.7	25
1480	Reexamination of Bessel beams: A generalized scheme to derive optical vortices. <i>Physical Review A</i> , 2019, 99, .	1.0	18
1481	Optically controlling the emission chirality of microlasers. <i>Nature Photonics</i> , 2019, 13, 283-288.	15.6	109

#	ARTICLE	IF	CITATIONS
1482	Microwave-Sensing Technology Using Orbital Angular Momentum: Overview of Its Advantages. IEEE Vehicular Technology Magazine, 2019, 14, 112-118.	2.8	45
1483	Focusing properties of linearly polarized high order hyperbolic-cosine-Gaussian beam with sine-azimuthal wavefront modulated by multiple spiral optical vortices. Optik, 2019, 183, 65-72.	1.4	0
1484	Optical orbital-angular-momentum-multiplexed data transmission under high scattering. Light: Science and Applications, 2019, 8, 27.	7.7	169
1485	Achieving wide-range photonics applications based on a compact grating-assisted silicon micro-ring resonator. Optik, 2019, 183, 887-896.	1.4	8
1486	Characterizing High-Quality High-Dimensional Quantum Key Distribution by State Mapping Between Different Degrees of Freedom. Physical Review Applied, 2019, 11, .	1.5	23
1487	Photonic Gauge Potential in One Cavity with Synthetic Frequency and Orbital Angular Momentum Dimensions. Physical Review Letters, 2019, 122, 083903.	2.9	54
1488	Direct excitation of chirality controllable LG01 vortex beam in solid-state lasers by intracavity astigmatism manipulation. Laser Physics Letters, 2019, 16, 035002.	0.6	2
1489	Versatile total angular momentum generation using cascaded J-plates. Optics Express, 2019, 27, 7469.	1.7	39
1490	Analysis on characteristic of Laguerre-Gaussian beams with topological charges of arithmetic progression. Optik, 2019, 183, 302-310.	1.4	5
1491	High-efficiency sorting and measurement of orbital angular momentum modes based on the Marchand-Zehnder interferometer and complex phase gratings. Measurement Science and Technology, 2019, 30, 075201.	1.4	7
1492	Generation of high-order orbital angular momentum beams and split beams simultaneously by employing anisotropic coding metasurfaces. Journal of Optics (United Kingdom), 2019, 21, 065103.	1.0	9
1493	Centrosymmetric Optical Vortex. Applied Sciences (Switzerland), 2019, 9, 1429.	1.3	8
1494	A review of multiple optical vortices generation: methods and applications. Frontiers of Optoelectronics, 2019, 12, 52-68.	1.9	58
1495	Propagation of partially coherent vortex beams in atmospheric turbulence by a spatial light modulator. Laser Physics Letters, 2019, 16, 056003.	0.6	10
1496	Optomechanically induced transparency in a Laguerre-Gaussian rotational-cavity system and its application to the detection of orbital angular momentum of light fields. Physical Review A, 2019, 99, .	1.0	34
1497	High-capacity spatial-division multiplexing with orbital angular momentum based on multi-ring fiber. Journal of Optics (United Kingdom), 2019, 21, 055601.	1.0	20
1498	Chirp Signal Transmission and Reception With Orbital Angular Momentum Multiplexing. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 986-990.	2.4	6
1499	Orbital angular momentum detection based on diffractive deep neural network. Optics Communications, 2019, 443, 245-249.	1.0	25

#	ARTICLE	IF	CITATIONS
1500	Quantum Machine Learning for 6G Communication Networks: State-of-the-Art and Vision for the Future. IEEE Access, 2019, 7, 46317-46350.	2.6	351
1501	Optical orbital angular momentum shift-keying communication based on coherent demodulation. Optics Communications, 2019, 452, 405-410.	1.0	6
1502	Measuring the topological charge of an x-ray vortex using a triangular aperture. Journal of Optics (United Kingdom), 2019, 21, 045604.	1.0	12
1503	Generation of Orbital Angular Momentum Beam With Circular Polarization Ceramic Antenna Array. IEEE Photonics Journal, 2019, 11, 1-8.	1.0	20
1504	Nanophotonic Advances for Room-Temperature Single-Photon Sources. Springer Series in Optical Sciences, 2019, , 103-178.	0.5	10
1505	Enhanced backscatter of vortex beams in double-pass optical links with atmospheric turbulence. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 228, 1-10.	1.1	10
1506	Highly Efficient Generation of Angular Momentum with Cylindrical Bianisotropic Metasurfaces. Physical Review Applied, 2019, 11, .	1.5	38
1507	Gapâ€‘Surface Plasmon Metasurfaces for Broadband Circularâ€‘toâ€‘Linear Polarization Conversion and Vector Vortex Beam Generation. Advanced Optical Materials, 2019, 7, 1801414.	3.6	55
1508	Ultrasmall Optical Vortex Knots Generated by Spinâ€‘Selective Metasurface Holograms. Advanced Optical Materials, 2019, 7, 1900263.	3.6	32
1509	Switchable detector array scheme to reduce the effect of single-photon detectorâ€™s deadtime in a multi-bit/photon quantum link. Optics Communications, 2019, 441, 132-137.	1.0	0
1510	Fundamentals of Free-Space Optical Communications Systems, Optical Channels, Characterization, and Network/Access Technology. , 2019, , 55-116.		2
1511	Single-pixel phase imaging by Fourier spectrum sampling. Applied Physics Letters, 2019, 114, .	1.5	30
1512	Quantum Optics of Spin Waves through ac Stark Modulation. Physical Review Letters, 2019, 122, 063604.	2.9	22
1513	Propagation and self-healing properties of Bessel-Gaussian beam carrying orbital angular momentum in an underwater environment. Scientific Reports, 2019, 9, 2025.	1.6	35
1514	Effects of Atmospheric Turbulence on OAM-POL-FDM Hybrid Multiplexing Communication System. Applied Sciences (Switzerland), 2019, 9, 5063.	1.3	15
1515	Data decoding of integer orbital angular momentum beams based in straight edge diffraction nanometric film. DYNA (Colombia), 2019, 86, 170-179.	0.2	1
1516	A Dual-polarized Dual-OAM-Mode multiplexed Antenna System. , 2019, , .		1
1517	Diffraction of an Electromagnetic Laguerreâ€™Gaussian Beam by the End of a Semi-Infinite Gyrotropic Cylinder. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
1518	Field Experimental Demonstration on OAM-MIMO Wireless Transmission on 28 GHz Band. , 2019, , .		16
1519	Identifying the Symmetry of an Object Based on Orbital Angular Momentum through a Few-Mode Fiber[*]. Chinese Physics Letters, 2019, 36, 124207.	1.3	1
1520	Localized Excitation of Single Atom to a Rydberg State with Structured Laser Beam for Quantum Information. , 2019, , .		1
1521	Two-dimension and high-resolution demultiplexing of coaxial multiple orbital angular momentum beams. Optics Express, 2019, 27, 4338.	1.7	5
1522	Hermite-Gaussian beams with orbital angular momentum. , 2019, , .		0
1523	Capacity Analysis of Multi-Pair Orbital Angular Momentum Interference Networks. , 2019, , .		3
1524	Dielectric metasurface for wave focusing and vortex beam generation*. , 2019, , .		0
1525	Calculation of the vortex eigenfunctions of the finite propagation operator in the near-field diffraction. Journal of Physics: Conference Series, 2019, 1368, 022015.	0.3	0
1526	Forming of three-dimensional optical fields consistent with the superposition of scalar spherical harmonics. Journal of Physics: Conference Series, 2019, 1368, 022044.	0.3	0
1527	Polarization-dependent orbital angular momentum flipping in fibers with acousto-optic interaction. Journal of Physics: Conference Series, 2019, 1368, 022067.	0.3	5
1528	Destruction of the orbital angular momentum in combined singular beams. Journal of Physics: Conference Series, 2019, 1400, 066006.	0.3	0
1529	Measurement of vortex spectrum in a purely degenerate vortices array. Journal of Physics: Conference Series, 2019, 1400, 066009.	0.3	0
1530	Experimental Study of Atmospheric Turbulence Detection Using an Orbital Angular Momentum Beam Via a Convolutional Neural Network. IEEE Access, 2019, 7, 184235-184241.	2.6	14
1531	Investigation of the formation of hybrid polarized laser beams using a four-sector polarization converter. Journal of Physics: Conference Series, 2019, 1368, 022071.	0.3	0
1532	"Hiding" a Low-Intensity 50-Gbit/s QPSK Free-Space Optical Beam That Co-Axially Propagates on the Same Wavelength with a High-Intensity 50-Gbit/s QPSK Optical Beam using Orthogonal Mode Multiplexing. , 2019, , .		0
1533	Storage of telecom-C-band heralded single photons with orbital-angular-momentum encoding in a crystal. Science Bulletin, 2019, 64, 1577-1583.	4.3	5
1534	Adaptive Demodulation Technique for Efficiently Detecting Orbital Angular Momentum (OAM) Modes Based on the Improved Convolutional Neural Network. IEEE Access, 2019, 7, 163633-163643.	2.6	30
1535	Multifunctional graphene metasurface to generate and steer vortex waves. Nanoscale Research Letters, 2019, 14, 343.	3.1	4

#	ARTICLE	IF	CITATIONS
1536	Steering Second-Harmonic Beams in Nanophotonic Waveguides by Gratings. ACS Photonics, 2019, 6, 3142-3149.	3.2	7
1537	Variable Scale Aperture Sampling Reception Method for Multiple Orbital Angular Momentum Modes Vortex Wave. IEEE Access, 2019, 7, 158847-158857.	2.6	16
1538	Convolutional Neural Network-Assisted Optical Orbital Angular Momentum Recognition and Communication. IEEE Access, 2019, 7, 162025-162035.	2.6	24
1539	Integer multiplier for the orbital angular momentum of light using a circular-sector transformation. Physical Review A, 2019, 100, .	1.0	16
1540	Full controls of OAM vortex beam and realization of retro and negative reflections at oblique incidence using dual-band 2-bit coding metasurface. Materials Research Express, 2019, 6, 125804.	0.8	18
1541	Complex Diffractive Optical Elements Stored in Photopolymers. Polymers, 2019, 11, 1920.	2.0	8
1542	Intense vortex high-order harmonics generated from laser-ablated plume. Applied Physics Letters, 2019, 115, 231105.	1.5	22
1543	Identification of hybrid orbital angular momentum modes with deep feedforward neural network. Results in Physics, 2019, 15, 102790.	2.0	16
1544	Achievable Rate of Multi-User Mode-Division Multiplexing Using Orbital Angular Momentum. , 2019, , .		3
1545	System for Multiplexed OAM Modes at 24 GHz. , 2019, , .		0
1546	Uniform Circular Array Factor Techniques to Optimize Orbital Angular Momentum Modes Designed with Dipole Antennas at E-band. , 2019, , .		0
1547	Quantum Fabry-Perot Resonator: Extreme Angular Selectivity in Matter-Wave Tunneling. Physical Review Applied, 2019, 12, .	1.5	14
1548	Vortex Beam Encoded All-Optical Logic Gates Based on Nano-Ring Plasmonic Antennas. Nanomaterials, 2019, 9, 1649.	1.9	5
1549	Structured light beams constituted of incoming and outgoing waves. Physical Review A, 2019, 100, .	1.0	16
1550	Manipulation of Orbital-Angular-Momentum Spectrum Using Pinhole Plates. Physical Review Applied, 2019, 12, .	1.5	97
1551	Intense attosecond pulses carrying orbital angular momentum using laser plasma interactions. Nature Communications, 2019, 10, 5554.	5.8	39
1552	Theoretical Prediction of Umbilics Creation in Nematic Liquid Crystals with Positive Dielectric Anisotropy. ACS Omega, 2019, 4, 21459-21468.	1.6	4
1553	Multiplication and division of the orbital angular momentum of light with diffractive transformation optics. Light: Science and Applications, 2019, 8, 113.	7.7	53

#	ARTICLE	IF	CITATIONS
1554	Two-dimensional multiplexing scheme both with ring radius and topological charge of perfect optical vortex beam. <i>Journal of Modern Optics</i> , 2019, 66, 87-92.	0.6	17
1555	Generation of optical vortices using asymmetrically spliced fibers. <i>Journal of Optics (United Kingdom)</i> , 2019, 17, 107-110.	0.784314	10
1556	Introducing a Mixed-Mode Matrix for Investigation of Wireless Communication Related to Orbital Angular Momentum. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 1719-1728.	3.1	26
1557	Attosecond single-cycle undulator light: a review. <i>Reports on Progress in Physics</i> , 2019, 82, 025901.	8.1	21
1558	Atmospheric turbulence mitigation using spatial mode multiplexing and modified pulse position modulation in hybrid RF/FSO orbital-angular-momentum multiplexed based on MIMO wireless communications system. <i>Optics Communications</i> , 2019, 436, 197-208.	1.0	91
1559	Optical Orbital Angular Momentum Read-Out Using a Self-Assembled Plasmonic Nanowire. <i>ACS Photonics</i> , 2019, 6, 148-153.	3.2	12
1560	High-density Orbital Angular Momentum mode analyzer based on the mode converters combining with the modified Mach-Zehnder interferometer. <i>Optics Communications</i> , 2019, 435, 441-448.	1.0	18
1561	Multiplexed OAM Wave Communication With Two-OAM-Mode Antenna Systems. <i>IEEE Access</i> , 2019, 7, 4160-4166.	2.6	38
1562	CMOS-Compatible Advanced Multiplexing Technology. <i>Springer Theses</i> , 2019, , 69-124.	0.0	0
1563	A multi-functional vortex beam generator based on transparent anisotropic metasurface. <i>Optics Communications</i> , 2019, 435, 311-318.	1.0	7
1564	Photonic quantum information processing: a review. <i>Reports on Progress in Physics</i> , 2019, 82, 016001.	8.1	402
1565	Generation of Multiple Modes Microwave Vortex Beams Using Active Metasurface. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 59-63.	2.4	53
1567	Vortex beam generation with variable topological charge based on a spiral slit. <i>Nanophotonics</i> , 2019, 8, 317-324.	2.9	98
1568	Generation of Polarization-Sensitive Modulated Optical Vortices with All-Dielectric Metasurfaces. <i>ACS Photonics</i> , 2019, 6, 628-633.	3.2	24
1569	Coherently demodulated orbital angular momentum shift keying system using a CNN-based image identifier as demodulator. <i>Optics Communications</i> , 2019, 435, 367-373.	1.0	14
1570	Numerical simulation of helical structure mode-division multiplexing with nonconcentric ring vortices. <i>Optics Communications</i> , 2019, 437, 303-311.	1.0	15
1571	Phase quantized quasi-Sierpinski carpet reflector for OAM beam generation. <i>AIP Advances</i> , 2019, 9, 015101.	0.6	4
1572	Three-Dimensional Target Imaging Based on Vortex Stripmap SAR. <i>IEEE Sensors Journal</i> , 2019, 19, 1338-1345.	2.4	34

#	ARTICLE	IF	CITATIONS
1573	Generating Controllable Laguerre-Gaussian Laser Modes Through Intracavity Spin-Orbital Angular Momentum Conversion of Light. <i>Physical Review Applied</i> , 2019, 11, .	1.5	47
1574	High-resolution refractometry using phase shifting interferometry based on spatial light modulator and vortex probe. <i>Optics and Laser Technology</i> , 2019, 112, 479-484.	2.2	14
1575	Amplification of orbital angular momentum modes in an erbium-doped solid-core photonic bandgap fiber. <i>Optics Communications</i> , 2019, 433, 132-136.	1.0	7
1576	Partially coherent vortex beam with periodical coherence properties. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 222-223, 138-144.	1.1	16
1577	Millimeter-Wave Nondiffracting Circular Airy OAM Beams. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 260-269.	3.1	27
1578	Wavelength-division demultiplexer based on hetero-structure octagonal-shape photonic crystal ring resonators. <i>Optik</i> , 2019, 179, 1169-1179.	1.4	14
1579	Signal reconstruction from interferometric measurements under sensing constraints. <i>Signal Processing</i> , 2019, 155, 323-333.	2.1	5
1580	Twisted optical communications using orbital angular momentum. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	71
1581	High order perfect optical vortex shaping. <i>Optics Communications</i> , 2019, 435, 93-96.	1.0	12
1582	Manipulating Terahertz Plasmonic Vortex Based on Geometric and Dynamic Phase. <i>Advanced Optical Materials</i> , 2019, 7, 1801328.	3.6	77
1583	Multiplexing THz Vortex Beams With a Single Diffractive 3-D Printed Lens. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019, 9, 63-66.	2.0	15
1584	Modes coded modulation of vector light beams using spatial phase cross-polarized modulation. <i>Optics Communications</i> , 2019, 432, 59-64.	1.0	5
1585	Detection of photonic orbital angular momentum with micro- and nano-optical structures. <i>Frontiers of Optoelectronics</i> , 2019, 12, 88-96.	1.9	9
1586	Modulation of orbital angular momentum on the propagation dynamics of light fields. <i>Frontiers of Optoelectronics</i> , 2019, 12, 69-87.	1.9	9
1587	Pulsar positioning system: a quest for evidence of extraterrestrial engineering. <i>International Journal of Astrobiology</i> , 2019, 18, 213-234.	0.9	6
1588	Comprehensive study of orbital angular momentum shift keying systems with a CNN-based image identifier. <i>Optics Communications</i> , 2020, 454, 124518.	1.0	2
1589	Splitting and rotating of optical vortices due to non-circular symmetry in amplitude and phase distributions of host beams. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126046.	0.9	8
1590	Experimental Mitigation of Atmospheric Turbulence Effect Using Pre-Signal Combining for Uni- and Bi-Directional Free-Space Optical Links With Two 100-Gbit/s OAM-Multiplexed Channels. <i>Journal of Lightwave Technology</i> , 2020, 38, 82-89.	2.7	33

#	ARTICLE	IF	CITATIONS
1591	Leaky-Wave Antenna With Switchable Omnidirectional Conical Radiation via Polarization Handedness. IEEE Transactions on Antennas and Propagation, 2020, 68, 1282-1288.	3.1	10
1593	The spectral properties of a partially coherent Lommel-Gaussian beam in turbulent atmosphere. Optics and Laser Technology, 2020, 123, 105940.	2.2	7
1594	An on-chip chiral converter and polarization rotator. Optik, 2020, 202, 163740.	1.4	1
1595	Ultrawideband Reflection-Type Metasurface for Generating Integer and Fractional Orbital Angular Momentum. IEEE Transactions on Antennas and Propagation, 2020, 68, 2166-2175.	3.1	105
1596	Evolution and Beam spreading of Arbitrary order vortex beam propagating in atmospheric turbulence. Optics Communications, 2020, 460, 124888.	1.0	16
1597	Scintillation of laser beams carrying orbital angular momentum propagating in a near-maritime environment. Optics Communications, 2020, 458, 124836.	1.0	2
1598	Investigations on the turbulence resistant characteristics of Custom Designed Beams embedded with multiple phase singularities. Optics and Laser Technology, 2020, 122, 105851.	2.2	2
1599	Efficient point-to-point manipulated visible meta-vortex lenses with arbitrary orbital angular momentum. Nanotechnology, 2020, 31, 035702.	1.3	10
1600	Spin-to-orbital angular momentum conversion in harmonic generation driven by intense circularly polarized laser. New Journal of Physics, 2020, 22, 013054.	1.2	7
1601	Identification of optical orbital angular momentum modes with the Kerr nonlinearity of few-layer WS ₂ . 2D Materials, 2020, 7, 025012.	2.0	8
1602	A Single Noninterleaved Metasurface for High-Capacity and Flexible Mode Multiplexing of Higher-Order Poincaré Sphere Beams. Advanced Materials, 2020, 32, e1903983.	11.1	67
1603	A Minimalist Single-Layer Metasurface for Arbitrary and Full Control of Vector Vortex Beams. Advanced Materials, 2020, 32, e1905659.	11.1	218
1604	Deep Learning With Persistent Homology for Orbital Angular Momentum (OAM) Decoding. IEEE Communications Letters, 2020, 24, 117-121.	2.5	11
1605	Mode switchable hybrid spatial states generated in fiber system: Theory and experiment. Optics and Laser Technology, 2020, 123, 105909.	2.2	1
1606	Optical Generation/Detection of Broadband Microwave Orbital Angular Momentum Modes. Journal of Lightwave Technology, 2020, 38, 1202-1209.	2.7	8
1607	Orbital Angular Momentum Waves: Generation, Detection, and Emerging Applications. IEEE Communications Surveys and Tutorials, 2020, 22, 840-868.	24.8	190
1608	Focused vortex-beam generation using gap-surface plasmon metasurfaces. Nanophotonics, 2020, 9, 371-378.	2.9	55
1609	Orientation-selective elliptic optical vortex array. Applied Physics Letters, 2020, 116, .	1.5	29

#	ARTICLE	IF	CITATIONS
1610	Recent progress on RF orbital angular momentum antennas. <i>Journal of Electromagnetic Waves and Applications</i> , 2020, 34, 275-300.	1.0	18
1611	Performance Investigation of OAMSK Modulated Wireless Optical System Over Turbulent Ocean Using Convolutional Neural Networks. <i>Journal of Lightwave Technology</i> , 2020, 38, 1753-1765.	2.7	22
1612	Generation of Spiral Spin Density Vectors With A Circularly Polarized, Vortex Beam. <i>IEEE Photonics Journal</i> , 2020, 12, 1-14.	1.0	3
1613	Twisted rectangular Laguerre-Gaussian correlated sources in anisotropic turbulent atmosphere. <i>Optics Communications</i> , 2020, 459, 125004.	1.0	13
1614	A Compound Phase-Modulated Beam Splitter to Distinguish Both Spin and Orbital Angular Momentum. <i>ACS Photonics</i> , 2020, 7, 212-220.	3.2	24
1615	All-Optical Signal Processing in Structured Light Multiplexing with Dielectric Meta-Optics. <i>ACS Photonics</i> , 2020, 7, 135-146.	3.2	46
1616	The generation and verification of Bessel-Gaussian beam based on coherent beam combining. <i>Results in Physics</i> , 2020, 16, 102872.	2.0	31
1617	Orbital angular momentum holography for high-security encryption. <i>Nature Photonics</i> , 2020, 14, 102-108.	15.6	425
1618	Simultaneous identification of the azimuthal and radial mode indices of Laguerre-Gaussian beams using a spiral phase grating. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 085106.	1.3	5
1619	Controls of transmitted electromagnetic waves for diverse functionalities using polarization-selective dual-band 2 bit coding metasurface. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 015104.	1.0	10
1620	Photonic crystal fiber for robust orbital angular momentum transmission: design and investigation. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	35
1621	Large-Scale Quantum Network over 66 Orbital Angular Momentum Optical Modes. <i>Physical Review Letters</i> , 2020, 125, 140501.	2.9	34
1622	Optical framed knots as information carriers. <i>Nature Communications</i> , 2020, 11, 5119.	5.8	34
1623	Programmable omni-resonance using space-time fields. <i>APL Photonics</i> , 2020, 5, .	3.0	11
1624	Phase-matching analysis in high-order harmonic generation with nonzero orbital angular momentum Laguerre-Gaussian beams. <i>Physical Review A</i> , 2020, 102, .	1.0	15
1625	Metasurface Spiral Focusing Generators with Tunable Orbital Angular Momentum Based on Slab Silicon Nitride Waveguide and Vanadium Dioxide (VO ₂). <i>Nanomaterials</i> , 2020, 10, 1864.	1.9	7
1626	Multichannel nonlinear holography in a two-dimensional nonlinear photonic crystal. <i>Physical Review A</i> , 2020, 102, .	1.0	30
1627	Deep Learning Based Recognition of Different Mode Bases in Ring-Core Fiber. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000249.	4.4	13

#	ARTICLE	IF	CITATIONS
1628	Propagation of a terahertz Bessel vortex beam through a homogeneous magnetized plasma slab. <i>Waves in Random and Complex Media</i> , 2022, 32, 1535-1550.	1.6	6
1629	Generation of Pure OAM Beams with a Single State of Polarization by Antenna-Decorated Microdisk Resonators. <i>ACS Photonics</i> , 2020, 7, 3049-3060.	3.2	21
1630	Generation of arbitrary cylindrical vector vortex beams with cross-polarized modulation. <i>Results in Physics</i> , 2020, 19, 103455.	2.0	22
1631	Shaping caustics into propagation-invariant light. <i>Nature Communications</i> , 2020, 11, 3597.	5.8	62
1632	Beyond Two-Octave Coherent OAM Supercontinuum Generation in Air-Core As ₂ S ₃ Ring Fiber. <i>IEEE Access</i> , 2020, 8, 96543-96549.	2.6	16
1633	Two-Octave Supercontinuum Generation of High-Order OAM Modes in Air-Core As ₂ S ₃ Ring Fiber. <i>IEEE Access</i> , 2020, 8, 114135-114142.	2.6	15
1634	Measuring the topological charges of acoustic vortices by apertures. <i>Journal of the Acoustical Society of America</i> , 2020, 148, 167-173.	0.5	12
1635	Phase Singularities to Polarization Singularities. <i>International Journal of Optics</i> , 2020, 2020, 1-33.	0.6	59
1636	Experimental observation of multiple vortices in high-order laser mode induced by intracavity modulated resonator. <i>Optik</i> , 2020, 220, 165242.	1.4	1
1637	Direct generation of the first-radial-order Laguerre-Gaussian mode in a Nd:YVO ₄ laser incorporating a core-ring-shaped pump fibre. <i>Laser Physics</i> , 2020, 30, 095801.	0.6	3
1638	Hollow Plasma Acceleration Driven by a Relativistic Reflected Hollow Laser. <i>Physical Review Letters</i> , 2020, 125, 034801.	2.9	50
1639	The Simulation of Vortex Modes in Twisted Few-Mode Fiber With Inverse-Parabolic Index Profile. <i>IEEE Photonics Journal</i> , 2020, 12, 1-8.	1.0	5
1640	Effects of Oceanic Turbulence on Orbital Angular Momenta of Optical Communications. <i>Journal of Marine Science and Engineering</i> , 2020, 8, 869.	1.2	5
1641	Topological Photonics for Optical Communications and Quantum Computing. <i>Quantum Reports</i> , 2020, 2, 579-590.	0.6	6
1642	Structuring orbital angular momentum beams by coherent laser array systems with tip-tilt optimization. <i>Results in Physics</i> , 2020, 19, 103602.	2.0	8
1643	Two-dimensional Talbot effect of the optical vortices and their spatial evolution. <i>Scientific Reports</i> , 2020, 10, 20315.	1.6	25
1644	Leveraging the orthogonality of Zernike modes for robust free-space optical communication. <i>Communications Physics</i> , 2020, 3, .	2.0	13
1645	CNN Classification Architecture Study for Turbulent Free-Space and Attenuated Underwater Optical OAM Communications. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8782.	1.3	6

#	ARTICLE	IF	CITATIONS
1646	Spinâ€Symmetryâ€Selective Generation of Ultracompact Optical Vortices in Nanoapertures without Chirality. Small Structures, 2020, 1, 2000008.	6.9	3
1647	Orbital angular momentum multiplexed deterministic all-optical quantum teleportation. Nature Communications, 2020, 11, 3875.	5.8	93
1648	A new type Bragg fiber for supporting 50 orbital angular momentum modes. Optik, 2020, 219, 165153.	1.4	11
1649	Reconfigurable structured light generation in a multicore fibre amplifier. Nature Communications, 2020, 11, 3986.	5.8	47
1650	Electric Control of Spinâ€Orbit Coupling in Grapheneâ€Based Nanostructures with Broken Rotational Symmetry. Laser and Photonics Reviews, 2020, 14, 2000214.	4.4	7
1651	Comparative Study of Spiral Spectrum of Elegant and Standard Laguerreâ€Gaussian Beams in Atmospheric Turbulence. Journal of Russian Laser Research, 2020, 41, 364-372.	0.3	6
1652	An Experimental Demonstration of over 100 Gbit/s OAM Multiplexing Transmission at a Distance of 100 m on 40 GHz Band. , 2020, , .		16
1653	Generation of Intense Vortex Gamma Rays via Spin-to-Orbital Conversion of Angular Momentum in Relativistic Laser-Plasma Interactions. Physical Review Applied, 2020, 14, .	1.5	12
1654	Nonlinear Beam Shaping with Binary Phase Modulation on Patterned WS ₂ Monolayer. ACS Photonics, 2020, 7, 2506-2514.	3.2	24
1655	Fundamental System-Degrading Effects in THz Communications Using Multiple OAM beams With Turbulence. , 2020, , .		6
1656	Detection of Free-Space Optical Orbital Angular Momentum Modes Based on GS Algorithm. , 2020, , .		1
1657	Rotman Lens-Fed Antenna for Generating Multiple Orbital Angular Momentum Modes. , 2020, , .		0
1658	Broadband Detection of Multiple Spin and Orbital Angular Momenta via Dielectric Metasurface. Laser and Photonics Reviews, 2020, 14, 2000062.	4.4	58
1659	Index-Tunable Structured-Light Beams from a Laser with an Intracavity Astigmatic Mode Converter. Physical Review Applied, 2020, 14, .	1.5	29
1660	Recent advances in multi-dimensional metasurfaces holographic technologies. Photonix, 2020, 1, .	5.5	140
1661	Selection rules for the excitation of quantum dots by spatially structured light beams: Application to the reconstruction of higher excited exciton wave functions. Physical Review B, 2020, 102, .	1.1	1
1662	Ultrafast control of fractional orbital angular momentum of microlaser emissions. Light: Science and Applications, 2020, 9, 179.	7.7	34
1663	Generative machine learning for robust free-space communication. Communications Physics, 2020, 3, .	2.0	18

#	ARTICLE	IF	CITATIONS
1664	Geometric metasurface for multiplexing terahertz plasmonic vortices. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	17
1665	Convolutional Neural Network Assisted Optical Orbital Angular Momentum Identification of Vortex Beams. <i>IEEE Access</i> , 2020, 8, 193801-193812.	2.6	11
1666	CNN-Based Phase Matching for the OAM Mode Selection in Turbulence Heterodyne Coherent Mitigation Links. <i>IEEE Photonics Journal</i> , 2020, 12, 1-13.	1.0	3
1667	Crosstalk Suppression in Structured Light Free-Space Optical Communication. <i>IEEE Open Journal of the Communications Society</i> , 2020, 1, 1623-1631.	4.4	7
1668	Controlled-not gate with orbital angular momentum in a rare-earth-ion-doped solid. <i>Journal of Luminescence</i> , 2020, 228, 117628.	1.5	4
1669	High-Accuracy Recognition of Orbital Angular Momentum Modes Propagated in Atmospheric Turbulences Based on Deep Learning. <i>IEEE Access</i> , 2020, 8, 159542-159551.	2.6	21
1670	Complex-amplitude metasurface-based orbital angular momentum holography in momentum space. <i>Nature Nanotechnology</i> , 2020, 15, 948-955.	15.6	386
1671	Low-loss orbital angular momentum ring-core fiber: design, fabrication and characterization. <i>Journal of Lightwave Technology</i> , 2020, , 1-1.	2.7	22
1672	Radio Vortex Communication System Using Partial Angular Aperture Receiving Scheme Under Atmospheric Turbulence. <i>IEEE Access</i> , 2020, 8, 152276-152285.	2.6	1
1673	Design and Characterisation of Terabit/s Capable Compact Localisation and Beam-Steering Terminals for Fiber-Wireless-Fiber Links. <i>Journal of Lightwave Technology</i> , 2020, 38, 6817-6826.	2.7	23
1674	Vectorized optoelectronic control and metrology in a semiconductor. <i>Nature Photonics</i> , 2020, 14, 680-685.	15.6	67
1675	Harmonic spin-orbit angular momentum cascade in nonlinear optical crystals. <i>Nature Photonics</i> , 2020, 14, 658-662.	15.6	63
1676	Quantum-Cascade Lasers in Atmospheric Optical Communication Lines: Challenges and Prospects (Review). <i>Journal of Applied Spectroscopy</i> , 2020, 87, 579-600.	0.3	9
1677	Control of space-dependent four-wave mixing in a four-level atomic system. <i>Physical Review A</i> , 2020, 102, .	1.0	30
1678	Terahertz Angle-Multiplexed Metasurface for Multi-Dimensional Multiplexing of Spatial and Frequency Domains. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000115.	1.3	20
1679	Capacity Modelling and Performance Analysis of OAM-OFDM Wireless Communication Systems. <i>IEEE Access</i> , 2020, 8, 163129-163139.	2.6	3
1680	Generating Convergent Laguerre-Gaussian Beams Based on an Arrayed Convex Spiral Phaser Fabricated by 3D Printing. <i>Micromachines</i> , 2020, 11, 771.	1.4	3
1681	Deuterogenic Plasmonic Vortices. <i>Nano Letters</i> , 2020, 20, 6774-6779.	4.5	38

#	ARTICLE	IF	CITATIONS
1682	A Speculative Study on 6G. IEEE Wireless Communications, 2020, 27, 118-125.	6.6	472
1683	Theory of Shaping Electron Wavepackets with Light. ACS Photonics, 2020, 7, 2859-2870.	3.2	54
1684	Dynamic spatiotemporal beams that combine two independent and controllable orbital-angular-momenta using multiple optical-frequency-comb lines. Nature Communications, 2020, 11, 4099.	5.8	25
1685	Effects of Oceanic Turbulence on the Propagation of Hypergeometric-Gaussian Beam Carrying Orbital Angular Momentum. , 2020, , .		4
1686	Topological transitions in an oscillatory driven liquid crystal cell. Scientific Reports, 2020, 10, 19324.	1.6	14
1687	Broadband and High-Efficiency Manipulation of Transmitted Vortex Beams via Ultra-Thin Multi-Bit Transmission Type Coding Metasurfaces. IEEE Access, 2020, 8, 197982-197991.	2.6	6
1688	Detection of Polarization and Topological Charge Based on Multidimensional Field of Metasurface. IEEE Photonics Journal, 2020, 12, 1-10.	1.0	1
1689	Broadband Vortex Beams Generation With Narrow Divergence Angle Using Polarization Insensitive Metasurface. IEEE Access, 2020, 8, 218062-218068.	2.6	11
1690	Three Dimensional Electromagnetic Vortex Radar Imaging Based on the Modified RD Algorithm. , 2020, , .		5
1691	Bidirectional multi-mode microwave vortex beam generation enabled by spoof surface plasmon polaritons. Applied Physics Letters, 2020, 117, .	1.5	28
1692	Vortex Polymer Optical Fiber with 64 Stable OAM States. Polymers, 2020, 12, 2776.	2.0	6
1693	Novel design of dual guided photonic crystal fiber for large capacity transmission in high-speed optics communications with supporting good quality OAM and LP modes. AEJ - Alexandria Engineering Journal, 2020, 59, 4889-4899.	3.4	20
1694	Correlation-induced orbital angular momentum changes. Physical Review A, 2020, 102, .	1.0	18
1695	Meta-neural-network for real-time and passive deep-learning-based object recognition. Nature Communications, 2020, 11, 6309.	5.8	49
1696	Incoherent beam combination of low order Laguerreâ€“Gaussian beams propagating in turbulent atmosphere. Results in Optics, 2020, 1, 100030.	0.9	4
1697	Vortex electron generated by microwave photon with orbital angular momentum in a magnetic field. AIP Advances, 2020, 10, .	0.6	14
1698	High-Order Nonlinear Spinâ€“Orbit Interaction on Plasmonic Metasurfaces. Nano Letters, 2020, 20, 8549-8555.	4.5	21
1699	Evaluation of the Laguerreâ€“Gaussian mode purity produced by three-dimensional-printed microwave spiral phase plates. Royal Society Open Science, 2020, 7, 200493.	1.1	14

#	ARTICLE	IF	CITATIONS
1700	Bend-Insensitive Grapefruit-Type Holey Ring-Core Fiber for Weakly-Coupled OAM Mode Division Multiplexing Transmission. <i>Journal of Lightwave Technology</i> , 2020, 38, 4497-4503.	2.7	18
1701	Demonstration of modulating retro-reflection free-space optical transmission using 80-Gb/s Polarization Multiplexed QPSK signal in simulated atmosphere environment. <i>Electronics Letters</i> , 2020, 56, 93-95.	0.5	3
1702	Reducing orbital angular momentum crosstalk of the Bessel-Gaussian beam for underwater optical communications. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 065702.	1.0	8
1703	Generation of orbital angular momentum modes via holographic leaky-wave metasurfaces. <i>Scientific Reports</i> , 2020, 10, 7358.	1.6	15
1704	Flexible measurement of high-order optical orbital angular momentum with a variable cylindrical lens pair. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	19
1705	Vortex Beam Detection Based on Plasmonic in Plane Zone-Plate. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-9.	1.9	3
1706	Wideband Millimeter-Wave Dual-Mode Dual Circularly Polarized OAM Antenna Using Sequentially Rotated Feeding Technique. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 1296-1300.	2.4	25
1707	On-chip plasmonic spin-Hall nanograting for simultaneously detecting phase and polarization singularities. <i>Light: Science and Applications</i> , 2020, 9, 95.	7.7	65
1708	Parameter estimation of orbital angular momentum based continuous-variable quantum key distribution. <i>Journal of Applied Physics</i> , 2020, 127, 213102.	1.1	6
1709	Structured Light: Ideas and Concepts. <i>Frontiers in Physics</i> , 2020, 8, .	1.0	94
1710	Tunable topological charge vortex microlaser. <i>Science</i> , 2020, 368, 760-763.	6.0	180
1711	Controlled Generation of Wavelength-Tunable Higher Order Poincaré Sphere Beams From a Femtosecond Optical Parametric Oscillator. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-5.	1.9	2
1712	Low dispersion and confinement loss photonic crystal fiber for orbital angular momentum mode transmission. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	11
1713	Phase retrieval for short wavelength orbital angular momentum beams using knife-edge diffraction. <i>Optics Communications</i> , 2020, 474, 126077.	1.0	6
1714	Light field imaging through a single multimode fiber for OAM-multiplexed data transmission. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	27
1715	Introduction of a new vortex cosine-hyperbolic-Gaussian beam and the study of its propagation properties in fractional Fourier transform optical system. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	35
1716	Measurement of Pure States of Light in the Orbital-Angular-Momentum Basis Using Nine Multipixel Image Acquisitions. <i>Physical Review Applied</i> , 2020, 13, .	1.5	2
1717	High-Efficiency Transmissive Programmable Metasurface for Multimode OAM Generation. <i>Advanced Optical Materials</i> , 2020, 8, 2000570.	3.6	163

#	ARTICLE	IF	CITATIONS
1718	Speckle-Correlation Scattering Matrix Approaches for Imaging and Sensing through Turbidity. Sensors, 2020, 20, 3147.	2.1	10
1719	Chiral Assemblies of Laser-Printed Micropillars Directed by Asymmetrical Capillary Force. Advanced Materials, 2020, 32, e2002356.	11.1	42
1720	Circular polarization shift-keying modulation based on orbital angular momentum division multiplexing in free space optical communication. Optics Communications, 2020, 475, 126165.	1.0	6
1721	Measuring orbital angular momentum of acoustic vortices based on Fraunhofer's diffraction*. Chinese Physics B, 2020, 29, 104301.	0.7	5
1722	Manipulation and exchange of light with orbital angular momentum in quantum-dot molecules. Physical Review A, 2020, 101, .	1.0	26
1723	Waveform Diversity-Based Generation of Convergent Beam Carrying Orbital Angular Momentum. IEEE Transactions on Antennas and Propagation, 2020, 68, 5487-5495.	3.1	6
1724	Direct discrimination of structured light by humans. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14682-14687.	3.3	13
1725	Multifunctional Scattering Antenna Array Design for Orbital Angular Momentum Vortex Wave and RCS Reduction. IEEE Access, 2020, 8, 109289-109296.	2.6	24
1726	Synthesized Vortex Beams in the Turbulent Atmosphere. Frontiers in Physics, 2020, 8, .	1.0	18
1727	Singularities of Partially Polarized Vortex Beams. Frontiers in Physics, 2020, 8, .	1.0	9
1728	The Effect of the Spin Angular Momentum on the Tight-Focusing Vortex Hollow Gaussian Beams. Annalen Der Physik, 2020, 532, 1900548.	0.9	15
1729	Experimental research on phase diversity method for correcting vortex beam distortion wavefront. Applied Physics B: Lasers and Optics, 2020, 126, 1.	1.1	9
1730	Dual Coaxial Longitudinal Polarization Vortex Structures. Physical Review Letters, 2020, 124, 103901.	2.9	46
1731	Study on orthogonal superposition generation method of double-ring vortex beams. European Physical Journal D, 2020, 74, 1.	0.6	4
1732	An accurate method for measuring the proportions of degenerated spatial modes in fibers. Journal of Lightwave Technology, 2020, , 1-1.	2.7	6
1733	Broad Bandwidth and Highly Efficient Recognition of Optical Vortex Modes Achieved by the Neural-Network Approach. Physical Review Applied, 2020, 13, .	1.5	15
1734	Signatures of the orbital angular momentum of an infrared light beam in the two-photon transition matrix element: A step toward attosecond chronoscopy of photoionization. Physical Review A, 2020, 101, .	1.0	11
1735	Topological Space-Time Photonic Transitions in Angular-Momentum-Biased Metasurfaces. Advanced Optical Materials, 2020, 8, 2000075.	3.6	22

#	ARTICLE	IF	CITATIONS
1736	Principle and performance of orbital angular momentum communication of acoustic vortex beams based on single-ring transceiver arrays. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	23
1737	Design and performance evaluation of photonic crystal fibers of supporting orbital angular momentum states in optical transmission. <i>Optics Communications</i> , 2020, 467, 125731.	1.0	31
1738	Optical wavefront shaping based on functional metasurfaces. <i>Nanophotonics</i> , 2020, 9, 987-1002.	2.9	36
1739	Stable generation of orbital angular momentum mode with an all-fiber laser. <i>Applied Physics Express</i> , 2020, 13, 042002.	1.1	4
1740	Ultrashort Vortex Pulses with Controlled Spectral Gouy Rotation. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4288.	1.3	6
1741	Advances in high-dimensional quantum entanglement. <i>Nature Reviews Physics</i> , 2020, 2, 365-381.	11.9	234
1742	Arbitrary spatial mode sorting in a multimode fiber. <i>Physical Review A</i> , 2020, 101, .	1.0	7
1743	Azimuthal modulation of probe absorption and transfer of optical vortices. <i>Physica Scripta</i> , 2020, 95, 085106.	1.2	3
1744	On-Chip Multi-Dimensional 1 Å– 4 Selective Switch With Simultaneous Mode-/Polarization-/Wavelength-Division Multiplexing. <i>IEEE Journal of Quantum Electronics</i> , 2020, 56, 1-8.	1.0	11
1745	Integrated vortex beam emitter in the THz frequency range: Design and simulation. <i>APL Photonics</i> , 2020, 5, .	3.0	10
1746	Comparison of FPGA and Microcontroller Implementations of an Innovative Method for Error Magnitude Evaluation in Reed–Solomon Codes. <i>Electronics (Switzerland)</i> , 2020, 9, 89.	1.8	7
1747	Vortex Beam Generation by Spin-Orbit Interaction with Bloch Surface Waves. <i>ACS Photonics</i> , 2020, 7, 774-783.	3.2	14
1748	A photonic crystal fiber for supporting 30 orbital angular momentum modes with low dispersion. <i>Optoelectronics Letters</i> , 2020, 16, 34-39.	0.4	17
1749	Vortex mode transformation interferometry. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 015604.	1.0	18
1750	Transverse Patterns and Dual-Frequency Lasing in a Low-Noise Nonplanar-Ring Orbital-Angular-Momentum Oscillator. <i>Physical Review Applied</i> , 2020, 13, .	1.5	5
1751	Deterministic Generation of Orbital-Angular-Momentum Multiplexed Tripartite Entanglement. <i>Physical Review Letters</i> , 2020, 124, 083605.	2.9	73
1752	Convolutional Neural Network Based Atmospheric Turbulence Compensation for Optical Orbital Angular Momentum Multiplexing. <i>Journal of Lightwave Technology</i> , 2020, 38, 1712-1721.	2.7	36
1753	Modeling and Optimization of Vortex Modes Propagation in Rectangular Dielectric Waveguides. <i>IEEE Photonics Journal</i> , 2020, 12, 1-17.	1.0	8

#	ARTICLE	IF	CITATIONS
1754	Sorting of spatially incoherent optical vortex modes. <i>Scientific Reports</i> , 2020, 10, 2533.	1.6	7
1755	Spatially structured transparency and transfer of optical vortices via four-wave mixing in a quantum-dot nanostructure. <i>Physical Review A</i> , 2020, 101, .	1.0	41
1756	Efficient Optical Angular Momentum Manipulation for Compact Multiplexing and Demultiplexing Using a Dielectric Metasurface. <i>Advanced Optical Materials</i> , 2020, 8, 1901666.	3.6	50
1757	Triple-order Orbital-angular-momentum modes generation based on single tilted fiber Bragg grating in a few-mode ring-core fiber. <i>Optical Fiber Technology</i> , 2020, 55, 102155.	1.4	13
1758	Rotman Lens-Fed Antenna for Generating Multiple Orbital Angular Momentum (OAM) Modes With Gain Enhancement. <i>IEEE Access</i> , 2020, 8, 29891-29900.	2.6	10
1759	Universal entanglement loss induced by angular uncertainty. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 024002.	1.0	4
1760	Bit error rate performance analysis for the orbital angular momentum of a multiplexed optical communication system based on multistaircase spiral phase plates. <i>Laser Physics Letters</i> , 2020, 17, 025202.	0.6	0
1761	Highly Sensitive Polarization Rotation Measurement through a High-Order Vector Beam Generated by a Metasurface. <i>Advanced Materials Technologies</i> , 2020, 5, 1901008.	3.0	10
1762	Theory for mode coupling in perturbed fibers. <i>Optics Communications</i> , 2020, 463, 125355.	1.0	5
1763	Nonresonant Metasurface for Fast Decoding in Acoustic Communications. <i>Physical Review Applied</i> , 2020, 13, .	1.5	27
1764	The theoretical investigation of the proposed optical fiber torsion sensor based on computer-generated-hologram (CGH). <i>Optics Communications</i> , 2020, 463, 125323.	1.0	3
1765	Quantum information processing with space-division multiplexing optical fibres. <i>Communications Physics</i> , 2020, 3, .	2.0	93
1766	Tailoring complex wavefront of scattered light via wavefront shaping. <i>Journal of Optics (United Kingdom)</i> , 2020, 22, 024002.	1.0	0
1767	Polarization-Encrypted Orbital Angular Momentum Multiplexed Metasurface Holography. <i>ACS Nano</i> , 2020, 14, 5553-5559.	7.3	155
1768	Electromagnetic Wave with OAM and Its Potential Applications in IoT. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2020, , 561-572.	0.2	2
1769	The Limits of Effective Degrees of Freedom in UCA based Orbital Angular Momentum Multiplexed Communications. <i>Scientific Reports</i> , 2020, 10, 5216.	1.6	8
1770	Photonic Wheels and Their Topological Reaction in a Strongly Focused Amplitude Tailored Beam. <i>IEEE Photonics Journal</i> , 2020, 12, 1-9.	1.0	7
1771	Orbit Angular Momentum MIMO with Mode Selection for UAV-Assisted A2G Networks. <i>Sensors</i> , 2020, 20, 2289.	2.1	6

#	ARTICLE	IF	CITATIONS
1772	Laguerreâ€“Gaussian vortex mode generation from astigmatic semiconductor microcavity. Applied Physics Express, 2020, 13, 042001.	1.1	1
1773	Improve The Capacity Of Data Transmission In Orbital Angular Momentum Multiplexing By Adjusting Link Structure. IEEE Photonics Journal, 2020, 12, 1-11.	1.0	5
1774	Talbot effect of orbital angular momentum lattices with single photons. Physical Review A, 2020, 101, .	1.0	21
1775	A design of nested photonic crystal fiber with low nonlinear and flat dispersion supporting 30+50 OAM modes. Optics Communications, 2020, 471, 125823.	1.0	32
1776	Coding and decoding data by multiplexing vortex beams in free space. Optics Communications, 2020, 472, 125909.	1.0	2
1777	Vector Vortex Beam Emitter Embedded in a Photonic Chip. Physical Review Letters, 2020, 124, 153601.	2.9	47
1778	Underwater transmission of high-dimensional twisted photons over 55 meters. Photonix, 2020, 1, .	5.5	31
1779	Orbital Angular Momentum (OAM) Carried by Asymmetric Vortex Beams for Wireless Communications: Theory, Experiment and Current Challenges. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-10.	1.9	33
1780	Partially coherent vortex beams: Fundamentals and applications. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	49
1781	Implementation of a simultaneous message-passing protocol using optical vortices. Optics and Laser Technology, 2021, 133, 106516.	2.2	1
1782	Theoretical analysis and comparison of OAM waves generated by three kinds of antenna array. Digital Communications and Networks, 2021, 7, 16-28.	2.7	8
1783	Widely Tunable Optical Vortex Array Generator Based on Grid Patterned Liquid Crystal Cell. Advanced Optical Materials, 2021, 9, 2001604.	3.6	15
1784	Identification of independent modes in two inputs free space communications system. Optics and Lasers in Engineering, 2021, 136, 106320.	2.0	0
1785	Measuring orbital angular momentum of vortex beams in optomechanics. Frontiers of Physics, 2021, 16, 1.	2.4	14
1786	Multifunctional Vortex Beam Generation by a Dynamic Reflective Metasurface. Advanced Optical Materials, 2021, 9, 2001689.	3.6	59
1787	Freeâ€“Electron Qubits. Annalen Der Physik, 2021, 533, 2000254.	0.9	30
1788	Quantification of orbital angular momentum (OAM) beams states of radio waves. Optik, 2021, 226, 165603.	1.4	1
1789	Spectrum Decomposition-Based Orbital Angular Momentum Communication of Acoustic Vortex Beams Using Single-Ring Transceiver Arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 1399-1407.	1.7	9

#	ARTICLE	IF	CITATIONS
1790	Decoding Optical Data with Machine Learning. Laser and Photonics Reviews, 2021, 15, 2000422.	4.4	18
1791	High-dimension data coding and decoding by radial mode and orbital angular momentum mode of a vortex beam in free space. Optics and Lasers in Engineering, 2021, 137, 106352.	2.0	9
1792	Experimental observation of optical vortex array by intra-resonator modulated high-order laser resonator. Optik, 2021, 225, 165870.	1.4	3
1793	Structured Light in Turbulence. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-21.	1.9	79
1794	Signal-to-Noise Ratio Improvement by Vortex Wave Detection With a Rotational Antenna. IEEE Transactions on Antennas and Propagation, 2021, 69, 1020-1029.	3.1	6
1795	Simultaneous Generation of Three OAM Modes by Using a RLSA Fed by a Waveguide Circuit for 60 GHz-band Radiative Near-field Region OAM Multiplexing. IEEE Transactions on Antennas and Propagation, 2021, 69, 1249-1259.	3.1	19
1796	Chiral Light Emission from a Sphere Revealed by Nanoscale Relative-Phase Mapping. ACS Nano, 2021, 15, 2219-2228.	7.3	29
1797	Recognition of OAM state using CNN based deep learning for OAM shift keying FSO system with pointing error and limited receiving aperture. , 2021, , .		2
1798	Characterization of Orbital Angular Momentum Applying Single-Sensor Compressive Imaging Based on a Microwave Spatial Wave Modulator. IEEE Transactions on Antennas and Propagation, 2021, 69, 6870-6880.	3.1	13
1799	Diffraction of generalized Humbertâ€“Gaussian beams by a helical axicon. Optical and Quantum Electronics, 2021, 53, 1.	1.5	6
1800	Chirality and Antiferromagnetism in Optical Metasurfaces. Topics in Applied Physics, 2021, , 75-103.	0.4	1
1801	Design, Analysis, and Experiment on High-Performance Orbital Angular Momentum Beam Based on 1-Bit Programmable Metasurface. IEEE Access, 2021, 9, 18585-18596.	2.6	18
1802	Deep-learning-based high-resolution recognition of fractional-spatial-mode-encoded data for free-space optical communications. Scientific Reports, 2021, 11, 2678.	1.6	17
1803	Numerical investigation of spiral photonic crystal fiber (S-PCF) with supporting high order OAM modes propagation for space division multiplexing applications. Optical and Quantum Electronics, 2021, 53, 1.	1.5	17
1804	Full-Bloch beams and ultrafast Rabi-rotating vortices. Physical Review Research, 2021, 3, .	1.3	11
1805	Demonstration of Ring-Core Fiber Coupling System for Tailored Optical Vortex Beams Assisted by Diffraction Neural Networks. , 2021, , .		0
1806	Demonstration of Turbulence Mitigation in a 200-Gbit/s Orbital- Angular-Momentum Multiplexed Free-Space Optical Link using Simple Power Measurements on a Probe Wavelength. , 2021, , .		0
1807	Nanotwist of aluminum with irradiation of a single optical vortex pulse. OSA Continuum, 2021, 4, 403.	1.8	9

#	ARTICLE	IF	CITATIONS
1808	Fourth-harmonic generation of orbital angular momentum light with cascaded quasi-phase matching crystals. <i>Optics Letters</i> , 2021, 46, 158.	1.7	4
1809	Ultrathin freestanding terahertz vector beam generators with free phase modulation. <i>Optics Express</i> , 2021, 29, 1384.	1.7	4
1810	Modal coupling and crosstalk due to turbulence and divergence on free space THz links using multiple orbital angular momentum beams. <i>Scientific Reports</i> , 2021, 11, 2110.	1.6	21
1811	High capacity and access rate, data storage using laser communications. <i>Optical Engineering</i> , 2021, 60, .	0.5	5
1812	Quantum features of structured light. , 2021, , 77-93.		1
1813	Poincaré beams for optical communications. , 2021, , 95-106.		1
1814	Integrated structured light architectures. <i>Scientific Reports</i> , 2021, 11, 796.	1.6	11
1815	All-Optical Signal Processing of Vortex Beams with Diffractive Deep Neural Networks. <i>Physical Review Applied</i> , 2021, 15, .	1.5	64
1816	All-silicon metasurfaces for polarization multiplexed generation of terahertz photonic orbital angular momentum superposition states. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5478-5485.	2.7	13
1817	Focusing Characteristics of Radially Polarized Anomalous Vortex Beams. <i>Lecture Notes in Electrical Engineering</i> , 2021, , 155-162.	0.3	0
1818	Spin and orbital angular momentum coupling. , 2021, , 177-203.		0
1819	Introduction of the vortex Hermite-Cosh-Gaussian beam and the analysis of its intensity pattern upon propagation. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	11
1820	Optical vortices in nanophotonics. <i>Chinese Optics</i> , 2021, 14, 1-20.	0.2	2
1821	Mode Hopping for Anti-Jamming in 6G Wireless Communications. <i>Computer Communications and Networks</i> , 2021, , 137-167.	0.8	0
1822	Multi-dimension Control on Complex Perfect Vortex Array. , 2021, , .		0
1823	Experimental Demonstration of Vortex Mode Demultiplexing using a Concentric-Ring Transformation. , 2021, , .		0
1824	The Encoding of Light-Driven Micro/Nanorobots: from Single to Swarming Systems. <i>Advanced Intelligent Systems</i> , 2021, 3, 2000170.	3.3	31
1825	Arbitrary polarization conversion dichroism metasurfaces for all-in-one full Poincaré sphere polarizers. <i>Light: Science and Applications</i> , 2021, 10, 24.	7.7	126

#	ARTICLE	IF	CITATIONS
1826	Scalable non-mode selective Hermite-Gaussian mode multiplexer based on multi-plane light conversion. Photonics Research, 2021, 9, 88.	3.4	10
1827	ULTRAVIOLET VORTEX GENERATION THROUGH ALL-DIELECTRIC NANO-ANTENNAS FOR FREE SPACE OPTICAL COMMUNICATION. Progress in Electromagnetics Research Letters, 2021, 96, 121-128.	0.4	1
1828	Analog radio of fiber link of 2-Cbaud OOK/BPSK radio frequency-orbital angular momentum beam transmission over 19.4 km. Optics Express, 2021, 29, 2124.	1.7	2
1829	Demonstration of Orbital-Angular-Momentum-Based Optical Switching Using Dual-Area Mirrors. Optics and Photonics Journal, 2021, 11, 351-359.	0.3	1
1830	Spatial Mode Correction of Single Photons Using Machine Learning. Advanced Quantum Technologies, 2021, 4, 2000103.	1.8	19
1831	Causes and mitigation of modal crosstalk in OAM multiplexed optical communication links. , 2021, , 259-289.		1
1832	Experimental Demonstration of an Integrated Broadband Pixel-Array Structure Generating Two Tunable Orbital-Angular-Momentum Mode Values and Carrying 100-Gbit/s QPSK Data. , 2021, , .		3
1833	Reconfigurable Antenna Systems for the Next Generation Devices Based on 4G/5G Standard. , 2021, , 44-65.		0
1834	Bright solid-state sources for single photons with orbital angular momentum. Nature Nanotechnology, 2021, 16, 302-307.	15.6	66
1835	Flower-Shaped Optical Vortex Array. Annalen Der Physik, 2021, 533, 2000575.	0.9	13
1836	Laser Beam Measurement and Characterization Techniques. , 2021, , 1-42.		0
1837	Multifunctional Orbital Angular Momentum Generator With High-Gain Low-Profile Broadband and Programmable Characteristics. IEEE Transactions on Antennas and Propagation, 2022, 70, 1068-1076.	3.1	31
1838	Localized Plasmonic Vortex Printing Technology Based on the Metaparticle and Spoof Surface Plasmon Polaritons. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000708.	0.8	2
1839	Unified matrix representation for spin and orbital angular momentum in partially coherent beams. Physical Review A, 2021, 103, .	1.0	24
1840	Experimentally measuring the mode indices of Laguerre-Gaussian beams by weak measurement. Optics Express, 2021, 29, 5419.	1.7	5
1841	Structured laser beams: toward 2-1/4m femtosecond laser vortices. Photonics Research, 2021, 9, 357.	3.4	24
1842	Chiral Single-Photon Generators. ACS Nano, 2021, 15, 1912-1916.	7.3	16
1843	Simultaneous generation of the second- and third-order OAM modes by using a high-order helical long-period fiber grating. Optics Letters, 2021, 46, 949.	1.7	35

#	ARTICLE	IF	CITATIONS
1844	Programmable terahertz vortex beam reflectarray antenna based on a graphene phoenix unit cell. Journal Physics D: Applied Physics, 2021, 54, 165302.	1.3	5
1845	Electron Vortex Beam Generation via Chiral Light-Induced Inelastic Ponderomotive Scattering. ACS Photonics, 2021, 8, 431-435.	3.2	8
1846	Broadband generation of rational-order optical vortices using a bilateral meta-grating. Journal of Optics (United Kingdom), 2021, 23, 024002.	1.0	0
1847	Robust higher-order optical vortices for information transmission in twisted anisotropic optical fibers. Journal of Optics (United Kingdom), 2021, 23, 035603.	1.0	10
1848	A Dual-band uniform circular array for Generating vortex electromagnetic waves. Journal of Physics: Conference Series, 2021, 1792, 012077.	0.3	0
1849	High-Harmonic Generation and Spin-Orbit Interaction of Light in a Relativistic Oscillating Window. Physical Review Letters, 2021, 126, 134801.	2.9	12
1850	On-Chip Orbital Angular Momentum Sorting With a Surface Plasmon Polariton Lens. Journal of Lightwave Technology, 2021, 39, 1423-1428.	2.7	7
1851	High-fidelity spatial mode transmission through a 1-km-long multimode fiber via vectorial time reversal. Nature Communications, 2021, 12, 1866.	5.8	27
1852	Research on Key Technologies of large capacity and long distance optical transmission systems. Journal of Physics: Conference Series, 2021, 1827, 012001.	0.3	0
1853	Perspectives on advances in high-capacity, free-space communications using multiplexing of orbital-angular-momentum beams. APL Photonics, 2021, 6, .	3.0	53
1854	Spin-decoupled metasurface for simultaneous detection of spin and orbital angular momenta via momentum transformation. Light: Science and Applications, 2021, 10, 63.	7.7	196
1855	A metamaterial lens based on transformation optics for horizontal radiation of OAM vortex waves. Journal of Applied Physics, 2021, 129, 104101.	1.1	2
1856	Spatial vortex four-wave mixing in a five-level atomic system. Laser Physics, 2021, 31, 055401.	0.6	1
1857	Dual-Functional Optical Waveplates Based on Gap-Surface Plasmon Metasurfaces. Advanced Optical Materials, 2021, 9, 2002253.	3.6	21
1858	Learning to recognize misaligned hyperfine orbital angular momentum modes. Photonics Research, 2021, 9, B81.	3.4	25
1859	Tailoring a complex perfect optical vortex array with multiple selective degrees of freedom. Optics Express, 2021, 29, 10811.	1.7	28
1860	Settled Fast Measurement of the Topological Charge by Direct Extraction of the Plane Wave from the Vortex Beam. Chinese Physics B, 0, , .	0.7	0
1861	Comparison of focusability between traditional beams and novel beams. Optik, 2021, 230, 166263.	1.4	2

#	ARTICLE	IF	CITATIONS
1862	A Novel Inverse Gaussian Profile for Orbital Angular Momentum Mode Division Multiplexing Optical Networks. , 2021, , .		5
1863	Multiprobe Time Reversal for High-Fidelity Vortex-Mode-Division Multiplexing Over a Turbulent Free-Space Link. Physical Review Applied, 2021, 15, .	1.5	13
1864	Coupling light to higher order transverse modes of a near-concentric optical cavity. Optics Express, 2021, 29, 8130.	1.7	1
1865	Spatially dependent hyper-Raman scattering in five-level cold atoms. Optics Express, 2021, 29, 10914.	1.7	10
1866	Underwater acoustic multiplexing communication by pentamode metasurface. Journal Physics D: Applied Physics, 2021, 54, 205303.	1.3	19
1867	Generalized Lorenzâ€Mie theory of photonic wheels. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 261, 107490.	1.1	5
1868	Compensation-free high-dimensional free-space optical communication using turbulence-resilient vector beams. Nature Communications, 2021, 12, 1666.	5.8	86
1869	Modeling and performance analysis of OAM-GSM millimeter-wave wireless communication systems. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 527-547.	1.5	2
1870	Near and mid-infrared optical vortex parametric oscillator based on KTA. Scientific Reports, 2021, 11, 8013.	1.6	11
1871	Efficient vortex beam generation using gradient refractive-index microphase plates. Applied Optics, 2021, 60, 3997.	0.9	1
1872	Angular momentum separation in focused fractional vector beams for optical manipulation. Optics Express, 2021, 29, 14705.	1.7	21
1873	High-power, electronically controlled source of user-defined vortex and vector light beams based on a few-mode fiber amplifier. Photonics Research, 2021, 9, 856.	3.4	12
1874	Nature-inspired orbital angular momentum beam generator using aperiodic metasurface. Journal Physics D: Applied Physics, 2021, 54, 275106.	1.3	10
1875	Spatial-Light-Modulator-Based Multichannel Data Transmission by Vortex Beams of Various Orders. Sensors, 2021, 21, 2988.	2.1	36
1876	Switching the orbital angular momentum state of light with mode sorting assisted coherent laser array system. Optics Express, 2021, 29, 13428.	1.7	16
1877	Statistical model for the weak turbulence-induced attenuation and crosstalk in free space communication systems with orbital angular momentum. Optics Express, 2021, 29, 12644.	1.7	9
1878	Quantum Topological Photonics. Advanced Optical Materials, 2021, 9, 2001739.	3.6	22
1879	Realizing Colorful Holographic Mimicry by Metasurfaces. Advanced Materials, 2021, 33, e2005864.	11.1	70

#	ARTICLE	IF	CITATIONS
1880	Spatial properties and propagation dynamics of apodized Hermite-Gauss beams. <i>Applied Optics</i> , 2021, 60, 3122.	0.9	3
1881	Automated Close-Loop System for Three-Dimensional Characterization of Spatiotemporal Optical Vortex. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	6
1882	Optical vector field rotation and switching with near-unity transmission by fully developed chiral photonic crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	14
1883	Advances on Mode-Coupling Theories, Fabrication Techniques, and Applications of the Helical Long-Period Fiber Gratings: A Review. <i>Photonics</i> , 2021, 8, 106.	0.9	25
1884	Vanadium dioxide embedded frequency reconfigurable metasurface for multi-dimensional multiplexing of terahertz communication. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255003.	1.3	6
1885	Generation of an Orbital-Angular-Momentum-Mode-Reconfigurable Beam by a Broadband 1-Bit Electronically Reconfigurable Transmitarray. <i>Physical Review Applied</i> , 2021, 15, .	1.5	14
1886	Experimental demonstration of OAM-based transmitter mode diversity data transmission under atmosphere turbulence. <i>Optics Express</i> , 2021, 29, 13171.	1.7	24
1887	High-quality reconstruction of an optical image by an efficient Laguerre-Gaussian mode decomposition method. <i>OSA Continuum</i> , 2021, 4, 1396.	1.8	5
1888	High-performance and ultra-broadband vortex beam generation using a Pancharatnam-Berry metasurface with an H-shaped resonator. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255101.	1.3	14
1889	Dense-code free space transmission by local demultiplexing optical states of a composed vortex. <i>Optics Express</i> , 2021, 29, 14412.	1.7	4
1890	Propagation properties of Laguerre-Gaussian Schell-model beams with a twist phase. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2021, 264, 107556.	1.1	15
1891	Comparison of UCA-OAM and UCA-MIMO systems for sub-THz band line-of-sight spatial multiplexing transmission. <i>Journal of Communications and Networks</i> , 2021, 23, 83-90.	1.8	10
1892	Study on the Relationship Between Symmetric Property of Optical Orbital Angular Momentum Spectrum and Critical Points of Phase in an Inhomogeneous Non-Random Media. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	0
1893	ML-Based Identification of Structured Light Schemes under Free Space Jamming Threats for Secure FSO-Based Applications. <i>Photonics</i> , 2021, 8, 129.	0.9	3
1894	Defining Effective Gain for Evaluation of Orbital Angular Momentum Links. <i>Advances in Technology Innovation</i> , 2021, 6, 117-127.	0.3	0
1896	Large-scale neuromorphic optoelectronic computing with a reconfigurable diffractive processing unit. <i>Nature Photonics</i> , 2021, 15, 367-373.	15.6	266
1897	Engineering arbitrarily oriented spatiotemporal optical vortices using transmission nodal lines. <i>Optica</i> , 2021, 8, 966.	4.8	44
1898	Design of Higher-Order Circular Array Antenna with Multiple Patch Elements Based on Angular Momentum. <i>Fusion Science and Technology</i> , 2021, 77, 366-372.	0.6	13

#	ARTICLE	IF	CITATIONS
1899	Propagation Characteristics of Vortex Beam Using Visualization Analysis in Free Space. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 838-843.	0.1	0
1900	Controllable A-T Splitting and Spatial Splitting Inside a Cascade Three-Level Atomic System. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 786-790.	0.1	1
1902	Chirality-Assisted Aharonov-Bohm Anandan Geometric-Phase Metasurfaces for Spin-Decoupled Phase Modulation. ACS Photonics, 2021, 8, 1847-1855.	3.2	17
1903	Generation and Detection of Structured Light: A Review. Frontiers in Physics, 2021, 9, .	1.0	52
1904	Propagation properties of vortex cosine-hyperbolic-Gaussian beams in strongly nonlocal nonlinear media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 265, 107554.	1.1	16
1905	Arbitrary cylindrical vector beam generation enabled by polarization-selective Gouy phase shifter. Photonics Research, 2021, 9, 1048.	3.4	24
1906	On-chip continuous position control of phase singularities in nanoscale. Optics Express, 2021, 29, 17375.	1.7	0
1907	Reconfigurable generation of double-ring perfect vortex beam. Optics Express, 2021, 29, 17353.	1.7	11
1908	Terahertz orbital angular momentum: Generation, detection and communication. China Communications, 2021, 18, 131-152.	2.0	23
1909	Analysis of misaligned optical rotational Doppler effect by modal decomposition. Optics Express, 2021, 29, 15288.	1.7	24
1910	Integrated pulse scope for tunable generation and intrinsic characterization of structured femtosecond laser. Scientific Reports, 2021, 11, 9670.	1.6	2
1911	Cascaded stimulated Brillouin scattering erbium-doped fiber laser generating orbital angular momentum beams at tunable wavelengths. Optics Express, 2021, 29, 18408.	1.7	7
1912	Direct Laser-Driven Electron Acceleration and Energy Gain in Helical Beams. Laser and Particle Beams, 2021, 2021, .	0.4	3
1913	10 OAM λ -16 Wavelengths Two-Layer Switch Based on an Integrated Mode Multiplexer for 19.2 Tbit/s Data Traffic. Journal of Lightwave Technology, 2021, 39, 3217-3224.	2.7	9
1914	3D Optical Vortex Lattices. Annalen Der Physik, 2021, 533, 2100114.	0.9	7
1915	Localized waves carrying orbital angular momentum in optical fibers. Journal of Optics (United Kingdom), 2021, 18, 1907001.	1.0	10
1916	Strong-field photoionization of intense laser fields by controlling optical singularities. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	2.0	7
1917	Spiral spectrum of high-order elliptic Gaussian vortex beams in a non-Kolmogorov turbulent atmosphere. Optics Express, 2021, 29, 16056.	1.7	12

#	ARTICLE	IF	CITATIONS
1918	Broadband Structured Light Multiplexing With Dielectric Meta-Optics. <i>Journal of Lightwave Technology</i> , 2021, 39, 2830-2836.	2.7	7
1919	Orbital Angular Momentum Mode-Group Beamforming System Based on An Integrated Optical True Time Delay Line Chip. , 2021, , .		0
1920	Transmission and Generation of Orbital ANGULAR Momentum Modes in Optical Fibers. <i>Photonics</i> , 2021, 8, 246.	0.9	8
1921	Field quantization in a waveguide with freeform cladding. , 2021, , .		1
1922	Rainbow Archimedean spiral emission from optical fibres. <i>Scientific Reports</i> , 2021, 11, 13030.	1.6	14
1923	Optical vortex lattice: an exploitation of orbital angular momentum. <i>Nanophotonics</i> , 2021, 10, 2487-2496.	2.9	53
1924	An OAM Mode Measurement Method by Rotation Angle Estimation. , 2021, , .		0
1925	CNN-based mode analysis of orbital angular momentum beams in atmospheric turbulence. , 2021, , .		0
1926	Demonstration of microwave plasmonic-like vortices with tunable topological charges by a single metaparticle. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	9
1927	Generation of a mode-tunable optical vortex based on a mirror curvature dynamically controlled Z-shaped resonant cavity. <i>Optics Letters</i> , 2021, 46, 3079.	1.7	4
1928	A vortex-focused beam metalens array in the visible light range based on computer-generated holography. <i>Results in Physics</i> , 2021, 25, 104211.	2.0	9
1929	Effects of the septic nonlinearity and the initial value of the radius of orbital angular momentum beams on data transmission in optical fibers using the cubic-quintic-septic complex Ginzburg-Landau equation in presence of higher-order dispersions. <i>Chaos, Solitons and Fractals</i> , 2021, 147, 110957.	2.5	7
1930	Research on the Purity of Orbital Angular Momentum Beam Generated by Imperfect Uniform Circular Array. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2021, 20, 968-972.	2.4	10
1931	Using MCMA-MUK algorithm to suppress crosstalk in orbital angular momentum multiplexing communication system. <i>Optical Review</i> , 2021, 28, 331-341.	1.2	2
1932	Review on Fiber-Optic Vortices and Their Sensing Applications. <i>Journal of Lightwave Technology</i> , 2021, 39, 3740-3750.	2.7	25
1933	Resonant Nonlinear Synthetic Metasurface with Combined Phase and Amplitude Modulations. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100031.	4.4	10
1934	Optical Vortices Generation by Azopolymeric Relief Gratings. <i>Nonlinear Phenomena in Complex Systems</i> , 2021, 24, 104-111.	0.1	5
1935	768-ary Laguerre-Gaussian-mode shift keying free-space optical communication based on convolutional neural networks. <i>Optics Express</i> , 2021, 29, 19807.	1.7	21

#	ARTICLE	IF	CITATIONS
1936	Reconfigurable electronic circuits for magnetic fields controlled by structured light. <i>Nature Photonics</i> , 2021, 15, 622-626.	15.6	29
1937	Modal Purity and LG Coupling of an OAM Beam Reflected by a Rough Surface for NLoS THz Links. , 2021, , .		2
1938	A Comparison Study of Data Link with Medium-Wavelength Infrared Pulsed and CW Quantum Cascade Lasers. <i>Photonics</i> , 2021, 8, 203.	0.9	2
1939	The investigation of focusing of cylindrically polarized beams with the variable height of optical elements using high-performance computer systems. , 2021, , .		5
1940	Analysis of Orbital Angular Momentum Channels in Bent Inverse Raised Cosine fiber. , 2021, , .		2
1941	Generation of High-Order Vortex States From Two-Mode Squeezed States. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	3
1942	Experimental demonstration of multiple dimensional coding decoding for image transfer with controllable vortex arrays. <i>Scientific Reports</i> , 2021, 11, 12012.	1.6	14
1943	Measurement of topological charges of optical vortices by antiphased semicircular slit pair. <i>New Journal of Physics</i> , 2021, 23, 063020.	1.2	1
1944	Generating high-power Lissajous structured modes and trochoidal vortex beams by an off-axis end-pumped Nd:YVO4 laser with astigmatic transformation. <i>Optics Express</i> , 2021, 29, 22957-22965.	1.7	5
1945	Orbital angular momentum communications based on standard multi-mode fiber (invited paper). <i>APL Photonics</i> , 2021, 6, .	3.0	33
1946	A design of novel photonic crystal fiber with low and flattened dispersion for supporting 84 orbital angular momentum modes. <i>Communications in Theoretical Physics</i> , 2021, 73, 085501.	1.1	11
1947	Nonlinear Wavy Metasurfaces with Topological Defects for Manipulating Orbital Angular Momentum States. <i>ACS Photonics</i> , 2021, 8, 1896-1902.	3.2	4
1948	Terahertz vortex beam generator based on bound states in the continuum. <i>Optics Express</i> , 2021, 29, 25270.	1.7	26
1949	Generation of optical vortex lattices by a coherent beam combining system. <i>Optics Letters</i> , 2021, 46, 3665.	1.7	18
1950	Vortex Harmonic Generation by Circularly Polarized Gaussian Beam Interacting with Tilted Target. <i>Physical Review Applied</i> , 2021, 16, .	1.5	8
1951	A hollow-core circular photonic crystal fiber mode selective coupler for generating orbital angular momentum modes. <i>Optical Fiber Technology</i> , 2021, 64, 102543.	1.4	7
1952	Enhanced detection techniques of orbital angular momentum states in the classical and quantum regimes. <i>New Journal of Physics</i> , 2021, 23, 073014.	1.2	11
1953	Focusing characteristics of linearly polarized Lorentzâ€™Gaussian vortex beams with sinusoidal phase modulation. <i>Applied Optics</i> , 2021, 60, 6128.	0.9	2

#	ARTICLE	IF	CITATIONS
1954	Propagation of vortex cosine-hyperbolic-Gaussian beams in atmospheric turbulence. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	34
1955	Arbitrary synthetic dimensions via multiboson dynamics on a one-dimensional lattice. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
1956	Topological Charge Switch in Active Multi- μ Core Fibers. <i>Annalen Der Physik</i> , 2021, 533, 2100108.	0.9	0
1957	Establishment of the fundamental phase-to-polarization link in classical optics. <i>Fundamental Research</i> , 2021, 1, 649-654.	1.6	6
1958	Orbital-Angular-Momentum-Controlled Hybrid Nanowire Circuit. <i>Nano Letters</i> , 2021, 21, 6220-6227.	4.5	19
1959	Symmetry and Quantum Features in Optical Vortices. <i>Symmetry</i> , 2021, 13, 1368.	1.1	12
1960	Higher-Order Airy Patterns and Their Application in Tailoring Orbital Angular Momentum Beams with Fiber Laser Arrays. <i>Journal of Lightwave Technology</i> , 2021, 39, 4758-4768.	2.7	8
1961	Spatiotemporal Helicon Wavepackets. <i>ACS Photonics</i> , 2021, 8, 2345-2354.	3.2	26
1962	A deep learning approach for trustworthy high-fidelity computational holographic orbital angular momentum communication. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	17
1963	Non-zero dispersion-shifted ring fiber for the orbital angular momentum mode. <i>Optics Express</i> , 2021, 29, 25428.	1.7	8
1964	Generation of rotational orbital angular momentum beams in the radio frequency based on an optical-controlled circular antenna array. <i>Optics Express</i> , 2021, 29, 23717.	1.7	8
1965	Mutual coupling reduction using plane spiral orbital angular momentum electromagnetic wave. <i>Journal of Electromagnetic Waves and Applications</i> , 2022, 36, 346-355.	1.0	2
1966	Orbital Angular Momentum Multiplexed Quantum Dense Coding. <i>Physical Review Letters</i> , 2021, 127, 093601.	2.9	44
1967	Near-unity third-harmonic circular dichroism driven by a quasibound state in the continuum in asymmetric silicon metasurfaces. <i>Physical Review A</i> , 2021, 104, .	1.0	55
1968	Orbital angular momentum detection of vortex beam based on diffraction grating. , 2021, , .		0
1969	Extending the Detection Range of Optical Vortices by Dense Phase Stitching Algorithm. <i>Journal of Lightwave Technology</i> , 2021, 39, 4974-4979.	2.7	1
1970	Multidimensional Information Assisted Deep Learning Realizing Flexible Recognition of Vortex Beam Modes. <i>IEEE Photonics Journal</i> , 2021, 13, 1-6.	1.0	8
1971	Broadband flat-top second-order OAM mode converter based on a phase-modulated helical long-period fiber grating. <i>Optics Express</i> , 2021, 29, 29518.	1.7	13

#	ARTICLE	IF	CITATIONS
1972	Experimental generation of perfect optical vortices through strongly scattering media. Optics Letters, 2021, 46, 4156.	1.7	8
1973	Propagation dynamics and radiation forces of autofocusing circle Bessel Gaussian vortex beams in a harmonic potential. Optics Express, 2021, 29, 28110.	1.7	8
1974	>30 W vortex LG ₀₁ or HG ₁₀ laser using a mode transforming output coupler. Optics Express, 2021, 29, 29082.	1.7	14
1975	VO ₂ -Based Switchable Metasurface With Broadband Photonic Spin Hall Effect and Absorption. IEEE Photonics Journal, 2021, 13, 1-5.	1.0	5
1976	Generalized and multiplexed q-plates emulated via an LCoS-based device. Journal of Optics (United Kingdom), 2021, 10, 1-5.	1.0	2
1977	Generation of Terahertz Superimposed Perfect Vortex Beams. IEEE Photonics Journal, 2021, 13, 1-5.	1.0	3
1978	Tripartite orbital angular momentum quantum information and non-Kolmogorov turbulent atmosphere. Quantum Information Processing, 2021, 20, 1.	1.0	2
1979	Optical near-field measurement for spin-orbit interaction of light. Progress in Quantum Electronics, 2021, 78, 100341.	3.5	14
1980	Laser Beam Positioning by Using a Broken-Down Optical Vortex Marker. Applied Sciences (Switzerland), 2021, 11, 7677.	1.3	2
1981	Inverse Hyperbolic Tangent Fiber for OAM Mode/Mode-Group Division Multiplexing Optical Networks. IEEE Journal of Quantum Electronics, 2021, 57, 1-12.	1.0	10
1982	Orbital angular momentum multiplication in plasmonic vortex cavities. Science Advances, 2021, 7, .	4.7	21
1983	Analysis of spatio-temporal properties of ultrashort optical vortices. , 2021, , .		2
1984	Influence of Two-Frequency Radiation Intensity Fluctuations on the Output Signal of a Vortex Optical Fiber Forming OAM Address in Polyharmonic Sensor Technology. Photonics, 2021, 8, 351.	0.9	4
1985	Representation of total angular momentum states of beams through a four-parameter notation. New Journal of Physics, 2021, 23, 083015.	1.2	7
1986	Experimental analysis of adaptive optics correction methods on the beam carrying orbital angular momentum mode through oceanic turbulence. Optik, 2021, 240, 166990.	1.4	18
1987	Unraveling the vector nature of generalized space-fractional Bessel beams. Physical Review A, 2021, 104, .	1.0	6
1988	Orbital angular momentum multiplexing communication system over atmospheric turbulence with K-best detection. Science China Information Sciences, 2021, 64, 1.	2.7	1
1989	Ultra-dense perfect optical orbital angular momentum multiplexed holography. Optics Express, 2021, 29, 28452.	1.7	26

#	ARTICLE	IF	CITATIONS
1990	Electrically Tunable All-Dielectric Metasurfaces Integrated With Nematic Liquid Crystals for Information Encryption. IEEE Photonics Journal, 2021, 13, 1-5.	1.0	1
1991	Spatial and temporal domain filtering for underwater lidar. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2021, 38, B10.	0.8	11
1992	Orbital angular momentum mode logical operation using optical diffractive neural network. Photonics Research, 2021, 9, 2116.	3.4	33
1993	Generating heralded single photons with a switchable orbital angular momentum mode. Photonics Research, 2021, 9, 1865.	3.4	2
1994	Phase control of controlled-NOT gate using dressing field in atomic vapor. Results in Physics, 2021, 28, 104585.	2.0	1
1995	Control of phase, polarization, and amplitude based on geometric phase in a racemic helix array. Photonics Research, 2021, 9, 2265.	3.4	4
1996	Demonstration of generating a 100 Gbit/s orbital-angular-momentum beam with a tunable mode order over a range of wavelengths using an integrated broadband pixel-array structure. Optics Letters, 2021, 46, 4765.	1.7	5
1997	High-efficiency ultra-broadband orbital angular momentum beam generators enabled by arrow-based fractal metasurface. Journal Physics D: Applied Physics, 2021, 54, 475105.	1.3	6
1998	Probing and Imaging Photonic Spin-Orbit Interactions in Nanostructures. Laser and Photonics Reviews, 2021, 15, 2100011.	4.4	12
1999	Tiny velocity measurement using rotating petal-like mode of orbital angular momentum. Optics Letters, 2021, 46, 4805.	1.7	11
2000	Free-space optical communication with quasi-ring Airy vortex beam under limited-size receiving aperture and atmospheric turbulence. Optics Express, 2021, 29, 32580.	1.7	27
2001	Controllable manipulation of composite multi-singularity vortex array. Optics Communications, 2021, 495, 127081.	1.0	12
2002	Reducing orbital angular momentum modes crosstalk of Bessel Gaussian beams in anisotropic atmospheric turbulence with Localized Wave. Optik, 2021, 248, 167995.	1.4	1
2003	The orbital angular momentum of a turbulent atmosphere and its impact on propagating structured light fields. New Journal of Physics, 2021, 23, 093012.	1.2	24
2004	Prototype system for underwater wireless optical communications employing orbital angular momentum multiplexing. Optics Express, 2021, 29, 35570.	1.7	9
2005	Customizing structured light beams with a differential operator. Optics Letters, 2021, 46, 5232-5235.	1.7	2
2006	Orbital angular momentum transfer in molecular magnets. Physical Review B, 2021, 104, .	1.1	11
2007	Multi-Gaussian correlated Hankel-Bessel beam properties in anisotropic oceanic turbulence. Applied Optics, 2021, 60, 8321.	0.9	4

#	ARTICLE	IF	CITATIONS
2008	Simultaneous measurement of orbital angular momentum spectra in a turbulent atmosphere without probe beam compensation. Optics Express, 2021, 29, 30666.	1.7	9
2009	A Low-Divergence Circularly Polarized Dual-Mode OAM Antenna Based on Higher Order Laguerre-Gaussian Modes. IEEE Transactions on Antennas and Propagation, 2021, 69, 5215-5223.	3.1	11
2010	Generation of perfect helical Mathieu vortex beams. Optics Express, 2021, 29, 32439.	1.7	8
2011	Solar background noise mitigation using the orbital angular momentum mode in vertical FSO downlink transmissions. Optics Express, 2021, 29, 33312.	1.7	4
2012	Smith-Purcell radiation from helical grating to generate wideband vortex beams. Optics Letters, 2021, 46, 4682.	1.7	11
2013	Evolution properties of partially coherent radially polarized Laguerre-Gaussian vortex beams in an anisotropic turbulent atmosphere. Optics Express, 2021, 29, 34986.	1.7	21
2014	Non-line-of-sight optical information transmission through turbid water. Optics Express, 2021, 29, 39498.	1.7	9
2015	Broadly tunable optical vortex beam in a diode-pumped Yb:CALGO laser. Optics and Laser Technology, 2021, 141, 107134.	2.2	7
2016	Versatile approach to laser beam shaping and analyzing by holographic phase masks. Journal of Optics (United Kingdom), 2021, 23, 115609.	1.0	4
2017	Non-line-of-sight optical communication based on orbital angular momentum. Optics Letters, 2021, 46, 5112.	1.7	10
2018	Metasurface Based Optical Orbital Angular Momentum Multiplexing for 100 GHz Radio Over Fiber Communication. Journal of Lightwave Technology, 2021, 39, 6159-6166.	2.7	10
2019	Transmission characters of wide-spectrum OAM beam in tunable atmospheric turbulence. Optics Communications, 2021, 496, 127078.	1.0	2
2020	Measurement of multiplexed fractional vortices with integer mode interval. Results in Physics, 2021, 29, 104699.	2.0	3
2021	Detection uncertainty of fractional optical vortex with angle indeterminacy in different transformation-based OAM-sorting systems. Optics and Lasers in Engineering, 2021, 146, 106702.	2.0	4
2022	Efficient identification of orbital angular momentum modes carried by Bessel Gaussian beams in oceanic turbulence channels using convolutional neural network. Optics Communications, 2021, 498, 127251.	1.0	14
2023	Virtual source for the fractional-order Bessel-Gauss beams. Optics Communications, 2021, 499, 127307.	1.0	4
2024	Large-scale phase retrieval method for wavefront reconstruction with multi-stage random phase modulation. Optics Communications, 2021, 498, 127115.	1.0	5
2025	Mode analysis of orbital angular momentum modes carrying multi-mode ring-core fibers. Optics Communications, 2021, 499, 127314.	1.0	3

#	ARTICLE	IF	CITATIONS
2026	Photonic crystal fiber metasurface for orbital angular momentum mode generation. <i>Optik</i> , 2021, 247, 167856.	1.4	2
2027	Parametric characterization of vortex cosine-hyperbolic-Gaussian beams. <i>Results in Optics</i> , 2021, 5, 100120.	0.9	11
2028	Conservation of extremal ellipticity for coherent single mode Gaussian beams propagating in rotationally invariant media. <i>Optics Communications</i> , 2022, 503, 127465.	1.0	1
2029	Demonstration of QPSK data correlation and equalization using a tunable optical tapped delay line based on orbital angular momentum mode delays. <i>Optics Communications</i> , 2022, 503, 127438.	1.0	2
2030	All-Fiber Wavelength-Switchable Orbital Angular Momentum (OAM) Laser Assisted by Fiber Bragg Grating and Fabry-Perot Interferometer Directly Inscribed in Erbium-Doped Fiber with Femtosecond Laser. , 2021, , .		1
2031	Experimental Demonstration of 8-Gbit/s QPSK Communications Using Two Multiplexed Orbital-Angular-Momentum Beams in the 0.27-0.33 THz Range. , 2021, , .		3
2032	Inverse-designed Optical Vortex Beam Emitters. , 2021, , .		4
2033	Air-Core Non-Zero Dispersion-Shifted Fiber With High-Index Ring for OAM Mode. <i>IEEE Access</i> , 2021, 9, 107804-107811.	2.6	2
2034	Evolution Properties and Spatial-Mode UWOC Performances of the Perfect Vortex Beam Subject to Oceanic Turbulence. <i>IEEE Transactions on Communications</i> , 2021, 69, 7647-7658.	4.9	14
2035	Focusing and propagation properties of Bessel-Gaussian beam with a power-order mixing helical-conical phase wavefront. <i>Applied Optics</i> , 2021, 60, 929.	0.9	4
2036	Experimental Investigation on Degradation of an Orbital- Angular-Momentum Beam Passing Through Dynamic Aerosol and Air-Water Interface for Air-to-Water Communications. , 2021, , .		1
2037	Integrating deep learning to achieve phase compensation for free-space orbital-angular-momentum-encoded quantum key distribution under atmospheric turbulence. <i>Photonics Research</i> , 2021, 9, B9.	3.4	20
2038	Polarization-controllable perfect vortex beam by a dielectric metasurface. <i>Optics Express</i> , 2021, 29, 3081.	1.7	35
2039	Transparent Dielectric Metasurfaces for Spatial Mode Multiplexing. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800031.	4.4	37
2040	The Plasmonic Response of Archimedean Spirals. <i>Springer Theses</i> , 2018, , 91-104.	0.0	1
2041	Inverted field interferometer for measuring the topological charges of optical vortices carried by short pulses. <i>Optics Communications</i> , 2020, 456, 124530.	1.0	11
2042	Generation of ultrafast spatiotemporal wave packet embedded with time-varying orbital angular momentum. <i>Science Bulletin</i> , 2020, 65, 1334-1336.	4.3	33
2043	Use of polarization freedom beyond polarization-division multiplexing to support high-speed and spectral-efficient data transmission. <i>Light: Science and Applications</i> , 2017, 6, e16207-e16207.	7.7	76

#	ARTICLE	IF	CITATIONS
2044	Optimally Sharp Energy Filtering of Quantum Particles via Homogeneous Planar Inclusions. Scientific Reports, 2020, 10, 816.	1.6	9
2045	Generation of E-band metasurface-based vortex beam with reduced divergence angle. Scientific Reports, 2020, 10, 8289.	1.6	19
2046	Gyro-devices – natural sources of high-power high-order angular momentum millimeter-wave beams. Terahertz Science & Technology, 2020, 13, 1-21.	0.5	5
2047	Optical vortex with multi-fractional orders. Applied Physics Letters, 2020, 116, .	1.5	23
2048	Highly dispersive coupled ring-core fiber for orbital angular momentum modes. Applied Physics Letters, 2020, 117, .	1.5	13
2049	Gigantic vortical differential scattering as a monochromatic probe for multiscale chiral structures. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	62
2050	Planar nonlinear metasurface optics and their applications. Reports on Progress in Physics, 2020, 83, 126101.	8.1	22
2051	Tailored holograms for superimposed vortex states. New Journal of Physics, 2020, 22, 123015.	1.2	3
2052	Symmetry-protection of multiphoton states of light. New Journal of Physics, 2020, 22, 123010.	1.2	4
2053	Recent advances in generation of terahertz vortex beams and their applications*. Chinese Physics B, 2020, 29, 097404.	0.7	25
2054	New semi-quantum key agreement protocol based on high-dimensional single-particle states*. Chinese Physics B, 2020, 29, 110304.	0.7	26
2055	Weak measurement of the optical polarization, chirality and orbital angular momentum via metasurface with polarization filtering. Journal of Physics Communications, 2020, 4, 095003.	0.5	1
2056	Vortex arrays directly generated from an efficient diode-pumped microchip laser. JPhys Photonics, 2020, 2, 035002.	2.2	8
2057	Arbitrary Multiplication and Division of the Orbital Angular Momentum of Light. Physical Review Letters, 2020, 124, 213901.	2.9	35
2058	Magnetic field-induced vortex triplet and vortex lattice in a liquid crystal cell. Physical Review Research, 2020, 2, .	1.3	6
2059	High-Precise Fractional Orbital Angular Momentum Probing With a Fiber Grating Tip. Journal of Lightwave Technology, 2021, 39, 1867-1872.	2.7	7
2060	Air-core fiber distribution of hybrid vector vortex-polarization entangled states. Advanced Photonics, 2019, 1, 1.	6.2	74
2061	Purity and efficiency of hybrid orbital angular momentum-generating metasurfaces. Journal of Nanophotonics, 2020, 14, 1.	0.4	13

#	ARTICLE	IF	CITATIONS
2062	Finite hypergeometric series summation-based Fraunhofer diffraction analysis for optical vortices generated by spiral phase plates. <i>Optical Engineering</i> , 2019, 58, 1.	0.5	2
2063	Experimental demonstration of broadband generation of optical vortices using asymmetrically spliced fibers. , 2018, , .		1
2064	Multi-plane light conversion of high spatial mode count. , 2018, , .		3
2065	Multiple-dimensional photonic measurements based on mapping technology. , 2018, , .		1
2066	Free-space optical communications with quantum cascade lasers. , 2019, , .		27
2067	The shift to 6G communications: vision and requirements. <i>Human-centric Computing and Information Sciences</i> , 2020, 10, .	6.1	130
2068	Multi-vortex laser enabling spatial and temporal encoding. <i>Photonix</i> , 2020, 1, .	5.5	82
2069	Universal orbital angular momentum spectrum analyzer for beams. <i>Photonix</i> , 2020, 1, .	5.5	69
2070	Demonstration of Simultaneous 1-to-34 Multicasting of OFDM/OQAM 64-QAM Signal from Single Gaussian Mode to Multiple Orbital Angular Momentum (OAM) Modes. , 2013, , .		4
2071	Variance of Weak Fluctuations of Orbital Angular Momentum of Gaussian Laser Beam Induced by Atmospheric Turbulence. , 2014, , .		3
2072	Fast modal analysis for Hermiteâ€“Gaussian beams via deep learning. <i>Applied Optics</i> , 2020, 59, 1954.	0.9	9
2073	Measuring the topological charge of coherence vortices through the geometry of the far-field cross-correlation function. <i>Applied Optics</i> , 2020, 59, 1553.	0.9	5
2074	Measuring the topological charge of terahertz vortex beams with a focal hyperbolic lens. <i>Applied Optics</i> , 2020, 59, 4685.	0.9	12
2075	Distortion of a twisted beam passing through a plasma layer. <i>Applied Optics</i> , 2020, 59, 6497.	0.9	5
2076	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.	0.9	27
2077	Orbital angular momentum density characteristics of tightly focused polarized Laguerreâ€“Gaussian beam. <i>Applied Optics</i> , 2020, 59, 7396.	0.9	5
2078	Propagation characteristics of the perfect vortex beam in anisotropic oceanic turbulence. <i>Applied Optics</i> , 2020, 59, 9956.	0.9	22
2079	Robustness of a coherence vortex. <i>Applied Optics</i> , 2016, 55, 7544.	2.1	12

#	ARTICLE	IF	CITATIONS
2080	Arithmetic with q-plates. Applied Optics, 2017, 56, 596.	2.1	28
2081	Integrated all-optical wavelength and polarization conversion of orbital angular momentum carrying modes. Applied Optics, 2018, 57, 8543.	0.9	1
2082	Periodic-trajectory-controlled, coherent-state-phase-switched, and wavelength-tunable SU(2) geometric modes in a frequency-degenerate resonator. Applied Optics, 2018, 57, 9543.	0.9	23
2083	Mode detection of misaligned orbital angular momentum beams based on convolutional neural network. Applied Optics, 2018, 57, 10152.	0.9	36
2084	Generation of an optical vortex array in the course of acousto-optic diffraction. Applied Optics, 2018, 57, 10284.	0.9	5
2085	Topological charge measurement of vortex beams by phase-shifting digital hologram technology. Applied Optics, 2018, 57, 10300.	0.9	14
2086	Performance analysis of adaptive optics with a phase retrieval algorithm in orbital-angular-momentum-based oceanic turbulence links. Applied Optics, 2019, 58, 6085.	0.9	21
2087	Design of On-Chip Dielectric Elliptical Meta-Reflectarray for Bessel Beams Generation and N-Fold Orbital Angular Momentum (OAM) Multicasting. , 2015, , .		1
2088	Experiment demonstration a directly excited orbital angular momentum and wavelength tunable laser. , 2016, , .		1
2089	160 Gbaud Single Nyquist Channel Transmission through Emulated 4 km Free-space Turbulence Link. , 2015, , .		1
2090	OAM Beam Generation using All-fiber Fused Couplers. , 2016, , .		12
2091	4 Gbit/s Underwater Optical Transmission Using OAM Multiplexing and Directly Modulated Green Laser. , 2016, , .		9
2092	Experimental Demonstration of Orbital Angular Momentum (OAM) Modes (De)Multiplexing and Transmission in 2-Km Fiber with Nyquist 32-QAM Coherent Detection Signals. , 2016, , .		1
2093	Experimental Demonstration of an Orbital-Angular-Momentum Encoded Quantum Communication Link Co-propagating with a Classical Channel. , 2017, , .		1
2094	Transmissive Multi-plane Light Conversion for Demultiplexing Orbital Angular Momentum Modes. , 2020, , .		4
2095	Experimental Analysis of Multiplexing/demultiplexing Laguerre Gaussian Beams with Different Radial Index. , 2014, , .		2
2096	Twisted vortex Gaussian Schell-model beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1899.	0.8	24
2097	Channel capacity of orbital-angular-momentum-based wireless communication systems with partially coherent elegant Laguerre-Gaussian beams in oceanic turbulence. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 471.	0.8	30

#	ARTICLE	IF	CITATIONS
2098	Hermiteâ€“Gaussian mode detection via convolution neural networks. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 936.	0.8	31
2099	Generation of Airy vortex beam arrays using computer-generated holography. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1215.	0.8	8
2100	Twisted elliptical multi-Gaussian Schell-model beams and their propagation properties. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 89.	0.8	12
2101	Optical-vortex diagnostics via Fraunhofer slit diffraction with controllable wavefront curvature. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 780.	0.8	6
2102	Digital sorting perturbed Laguerreâ€“Gaussian beams by radial numbers. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 959.	0.8	18
2103	Optical communication system using Gaussian vortex beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1531.	0.8	6
2104	OAM beams from incomplete computer generated holograms projected onto a DMD. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1905.	0.9	14
2105	Direct fabrication of a q-plate array by scanning wave photopolymerization. Journal of the Optical Society of America B: Optical Physics, 2019, 36, D47.	0.9	14
2106	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.	0.9	16
2107	Four-wave mixing-based orbital angular momentum translation. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1857.	0.9	9
2108	Roadmap to free space optics. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A184.	0.9	131
2109	High-dimensional cryptography with spatial modes of light: tutorial. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A309.	0.9	41
2110	Long Distance Free-Space Propagation of light carrying Orbital Angular Momentum. , 2016, , .		1
2111	Conservation of orbital angular momentum for high harmonic generation of fractional vortex beams. Optics Express, 2018, 26, 23460.	1.7	10
2112	Truncated triangular diffraction lattices and orbital-angular-momentum detection of vortex SU(2) geometric modes. Optics Express, 2018, 26, 25545.	1.7	31
2113	Turbo-coded 16-ary OAM shift keying FSO communication system combining the CNN-based adaptive demodulator. Optics Express, 2018, 26, 27849.	1.7	70
2114	Ultrafast switching of optical singularity eigenstates with compact integrable liquid crystal structures. Optics Express, 2018, 26, 28818.	1.7	17
2115	Orbital angular momentum vector modes (de)multiplexer based on multimode micro-ring. Optics Express, 2018, 26, 29895.	1.7	27

#	ARTICLE	IF	CITATIONS
2116	Reconfiguring structured light beams using nonlinear metasurfaces. Optics Express, 2018, 26, 30930.	1.7	23
2117	Multi-dimensional QAM equivalent constellation using coherently coupled orbital angular momentum (OAM) modes in optical communication. Optics Express, 2018, 26, 30969.	1.7	19
2118	Spectrally interleaved topologies using geometric phase metasurfaces. Optics Express, 2018, 26, 31031.	1.7	9
2119	Spectroscopy of fractional orbital angular momentum states. Optics Express, 2018, 26, 32248.	1.7	19
2120	Realization of a scalable Laguerre-Gaussian mode sorter based on a robust radial mode sorter. Optics Express, 2018, 26, 33057.	1.7	38
2121	Twisted Laguerre-Gaussian Schell-model beam and its orbital angular moment. Optics Express, 2018, 26, 33956.	1.7	43
2122	Quadrant-separable multi-singularity vortices manipulation by coherent superposed mode with spatial-energy mismatch. Optics Express, 2018, 26, 34940.	1.7	12
2123	Dual-band vortex beam generation with different OAM modes using single-layer metasurface. Optics Express, 2019, 27, 34.	1.7	77
2124	Generation of optical vortex beam by surface-processed photonic-crystal surface-emitting lasers. Optics Express, 2019, 27, 1045.	1.7	19
2125	High-power vortex beam generation enabled by a phased beam array fed at the nonfocal-plane. Optics Express, 2019, 27, 4046.	1.7	38
2126	High-efficiency broadband vortex beam generator based on transmissive metasurface. Optics Express, 2019, 27, 4281.	1.7	57
2127	Aberration-resistible topological charge determination of annular-shaped optical vortex beams using Shack-Hartmann wavefront sensor. Optics Express, 2019, 27, 7803.	1.7	5
2128	Using all transverse degrees of freedom in quantum communications based on a generic mode sorter. Optics Express, 2019, 27, 10383.	1.7	33
2129	Controllable conversion between Hermite Gaussian and Laguerre Gaussian modes due to cross phase. Optics Express, 2019, 27, 10684.	1.7	47
2130	Octave-wide supercontinuum generation of light-carrying orbital angular momentum. Optics Express, 2019, 27, 11547.	1.7	42
2131	Vortex laser by transforming Gaussian mode with an interferometric output coupler. Optics Express, 2019, 27, 11642.	1.7	16
2132	Modal decomposition of Laguerre Gaussian beams with different radial orders using optical correlation technique. Optics Express, 2019, 27, 13182.	1.7	21
2133	Liquid crystal-based order electrically controlled q-plate system. Optics Express, 2019, 27, 16103.	1.7	6

#	ARTICLE	IF	CITATIONS
2134	Deep learning based atmospheric turbulence compensation for orbital angular momentum beam distortion and communication. Optics Express, 2019, 27, 16671.	1.7	96
2135	Compressed sensing of twisted photons. Optics Express, 2019, 27, 17426.	1.7	4
2136	Direct generation of red and orange optical vortex beams from an off-axis diode-pumped Pr ³⁺ :YLF laser. Optics Express, 2019, 27, 18190.	1.7	36
2137	High-resolution cylindrical vector beams sorting based on spin-dependent fan-out optical geometric transformation. Optics Express, 2019, 27, 20901.	1.7	14
2138	Grafted optical vortex with controllable orbital angular momentum distribution. Optics Express, 2019, 27, 22930.	1.7	58
2139	Physical-layer security in fractional orbital angular momentum multiplexing under atmospheric turbulence channel. Optics Express, 2019, 27, 23751.	1.7	7
2140	Scintillation properties of a partially coherent vector beam with vortex phase in turbulent atmosphere. Optics Express, 2019, 27, 26676.	1.7	47
2141	Spatial phase and polarization retrieval of arbitrary circular symmetry singular light beams using orthogonal polarization separation. Optics Express, 2019, 27, 27282.	1.7	9
2142	Analysis of electromagnetic vortex beams using modified dynamic mode decomposition in spatial angular domain. Optics Express, 2019, 27, 27702.	1.7	14
2143	Characterizing the statistical distribution for transmission coefficient of turbulent optical orbital-angular-momentum channels. Optics Express, 2019, 27, 28968.	1.7	11
2144	Ultraslow vortex four-wave mixing via multiphoton quantum interference. Optics Express, 2019, 27, 29863.	1.7	31
2145	Super-sensitive measurement of angular rotation displacement based on the hybrid interferometers. Optics Express, 2019, 27, 31376.	1.7	6
2146	Generation of high-quality terahertz OAM mode based on soft-aperture difference frequency generation. Optics Express, 2019, 27, 31840.	1.7	29
2147	Experimental demonstration of free-space multi-state orbital angular momentum shift keying. Optics Express, 2019, 27, 33111.	1.7	38
2148	Ferroelectric liquid crystal mediated fast switchable orbital angular momentum of light. Optics Express, 2019, 27, 36903.	1.7	10
2149	Amplification of 18 OAM modes in a ring-core erbium-doped fiber with low differential modal gain. Optics Express, 2019, 27, 38087.	1.7	28
2150	Highly efficient vortex four-wave mixing in asymmetric semiconductor quantum wells. Optics Express, 2020, 28, 2975.	1.7	35
2151	Generating terahertz perfect optical vortex beams by diffractive elements. Optics Express, 2020, 28, 1417.	1.7	25

#	ARTICLE	IF	CITATIONS
2152	Second-harmonic generation of asymmetric Bessel-Gaussian beams carrying orbital angular momentum. Optics Express, 2020, 28, 2536.	1.7	13
2153	Quantum-inspired Fredkin gate based on spatial modes of light. Optics Express, 2020, 28, 12661.	1.7	6
2154	Single-axis soliton molecule and multiple solitons generation from a vector fiber laser. Optics Express, 2020, 28, 5212.	1.7	13
2155	Phenomenology of complex structured light in turbulent air. Optics Express, 2020, 28, 11033.	1.7	25
2156	The evolution of spectral intensity and orbital angular momentum of twisted Hermite Gaussian Schell model beams in turbulence. Optics Express, 2020, 28, 7152.	1.7	17
2157	Turbulence aberration correction for vector vortex beams using deep neural networks on experimental data. Optics Express, 2020, 28, 7515.	1.7	41
2158	Optomechanical detection of light with orbital angular momentum. Optics Express, 2020, 28, 15482.	1.7	10
2159	Identifying structured light modes in a desert environment using machine learning algorithms. Optics Express, 2020, 28, 9753.	1.7	25
2160	Performance of real-time adaptive optics compensation in a turbulent channel with high-dimensional spatial-mode encoding. Optics Express, 2020, 28, 15376.	1.7	21
2161	Partially coherent radially polarized fractional vortex beam. Optics Express, 2020, 28, 11493.	1.7	35
2162	Anomalous ring-connected optical vortex array. Optics Express, 2020, 28, 13775.	1.7	17
2163	OAM-basis transmission matrix in optics: a novel approach to manipulate light propagation through scattering media. Optics Express, 2020, 28, 15006.	1.7	13
2164	Sorting full angular momentum states with Pancharatnam-Berry metasurfaces based on spiral transformation. Optics Express, 2020, 28, 16342.	1.7	23
2165	Subwavelength focusing of a spatio-temporal wave packet with transverse orbital angular momentum. Optics Express, 2020, 28, 18472.	1.7	29
2166	Full control of dual-band vortex beams using a high-efficiency single-layer bi-spectral 2-bit coding metasurface. Optics Express, 2020, 28, 17374.	1.7	42
2167	Broadband and high-efficiency spin-polarized wave engineering with PB metasurfaces. Optics Express, 2020, 28, 15601.	1.7	9
2168	Direct generation of 1108-nm and 1173-nm Laguerre-Gaussian modes from a self-Raman Nd:GdVO ₄ laser. Optics Express, 2020, 28, 24095.	1.7	17
2169	Vortex generation in the spin-orbit interaction of a light beam propagating inside a uniaxial medium: origin and efficiency. Optics Express, 2020, 28, 27258.	1.7	29

#	ARTICLE	IF	CITATIONS
2170	Fast generation and detection of spatial modes of light using an acousto-optic modulator. Optics Express, 2020, 28, 29112.	1.7	14
2171	Cylindrical vector beam multiplexing for radio-over-fiber communication with dielectric metasurfaces. Optics Express, 2020, 28, 38666.	1.7	12
2172	Self-reconstruction of twisted Laguerre-Gaussian Schell-model beams partially blocked by an opaque obstacle. Optics Express, 2020, 28, 31510.	1.7	16
2173	Orbital angular momentum mode detection of the combined vortex beam generated by coherent combining technology. Optics Express, 2020, 28, 35795.	1.7	21
2174	Multiple orbital angular momentum mode switching at multi-wavelength in few-mode fibers. Optics Express, 2020, 28, 36084.	1.7	10
2175	Young's double-slit experiment with a partially coherent vortex beam. Optics Express, 2020, 28, 38106.	1.7	9
2176	Ultraviolet intracavity frequency-doubled Pr ³⁺ :LiYF ₄ orbital Poincaré laser. Optics Express, 2020, 28, 37397.	1.7	18
2177	Real-time OAM cross-correlator based on a single-pixel detector HOBbit system. Optics Express, 2020, 28, 39277.	1.7	5
2178	Astigmatic hybrid SU(2) vector vortex beams: towards versatile structures in longitudinally variant polarized optics. Optics Express, 2021, 29, 315.	1.7	22
2179	Demonstration of Orbital Angular Momentum State Conversion using Two Hybrid 3D Photonic Integrated Circuits. , 2014, , .		8
2180	Direct 3D nanoprinting on fiber tip of collimating lens and OAM mode converter in one compound element. , 2016, , .		8
2181	Experimental Demonstration of Chip-Scale Orbital Angular Momentum (OAM) Beams Generation and Detection Using Nanophotonic Dielectric Metasurface Array. , 2016, , .		2
2182	Experimental Demonstration of Orbital Angular Momentum (OAM) Modes Transmission in a 2.6 km Conventional Graded-Index Multimode Fiber Assisted by High Efficient Mode-Group Excitation. , 2016, , .		7
2183	Experimental Beam Displacement Tracking and Correction of Data-Carrying Orbital-Angular-Momentum Beams in a Free-Space Optical Link. , 2017, , .		1
2184	Annular Core Photonic Lantern OAM Mode Multiplexer. , 2017, , .		9
2185	Demonstration of Orbital Angular Momentum (OAM) Fiber Amplifier in Data-Carrying OAM-Division Multiplexing and Wavelength-Division Multiplexing (WDM) System. , 2017, , .		3
2186	16-QAM-Carrying Orbital Angular Momentum (OAM) Mode-Division Multiplexing Transmission Using All-Fiber Fused Mode Selective Coupler. , 2018, , .		2
2187	A novel ring-core fiber supporting MIMO-free 50km transmission over high-order OAM modes. , 2019, , .		9

#	ARTICLE	IF	CITATIONS
2188	Alignment Monitor for Free-Space Optical Links in the Presence of Turbulence using the Beating of Opposite-Order Orbital-Angular-Momentum Beams on Two Different Wavelengths. , 2020, , .		1
2189	Beyond Terabit/s WDM Optical Wireless Transmission using Wavelength-transparent Beam Tracking and Steering. , 2020, , .		9
2190	Simultaneous turbulence mitigation and channel demultiplexing for two 100â€‰%â€‰Gbit/s orbital-angular-momentum multiplexed beams by adaptive wavefront shaping and diffusing. Optics Letters, 2020, 45, 702.	1.7	6
2191	High-energy 2â€‰%â€‰Âµm pulsed vortex beam excitation from a Q-switched Tm:LuYAG laser. Optics Letters, 2020, 45, 722.	1.7	14
2192	Compact high-efficiency four-mode vortex beam generator within the telecom C-band. Optics Letters, 2020, 45, 1607.	1.7	10
2193	Spatial-diversity detection of optical vortices for OAM signal modulation. Optics Letters, 2020, 45, 5534.	1.7	11
2194	High-power structured laser modes: direct generation of a vortex array. Optics Letters, 2020, 45, 4096.	1.7	9
2195	Perfect Laguerreâ€‰Gauss beams. Optics Letters, 2020, 45, 5197.	1.7	19
2196	Experimental mitigation of the effects of the limited size aperture or misalignment by singular-value-decomposition-based beam orthogonalization in a free-space optical link using Laguerreâ€‰Gaussian modes. Optics Letters, 2020, 45, 6310.	1.7	11
2197	Electrically/optically tunable photo-aligned hybrid nematic liquid crystal Damman grating. Optics Letters, 2016, 41, 5668.	1.7	22
2198	Arbitrarily directed emission of integrated cylindrical vector vortex beams by geometric phase engineering. Optics Letters, 2020, 45, 6779.	1.7	8
2199	Propagation of optical vortices in a nonlinear atomic medium with a photonic band gap. Optics Letters, 2017, 42, 1059.	1.7	37
2200	Characterizing a 14â€‰%â€‰14 OAM mode transfer matrix of a ring-core fiber based on quadrature phase-shift interference. Optics Letters, 2017, 42, 1257.	1.7	9
2201	3â€‰%â€‰3 optical switch by exploiting vortex beam emitters based on silicon microrings with superimposed gratings. Optics Letters, 2017, 42, 3749.	1.7	3
2202	Comparing mode-crosstalk and mode-dependent loss of laterally displaced orbital angular momentum and Hermiteâ€‰Gaussian modes for free-space optical communication. Optics Letters, 2017, 42, 4175.	1.7	42
2203	Interference patterns of vortex beams based on photonic band gap structure. Optics Letters, 2018, 43, 4354.	1.7	13
2204	All-fiber orbital angular momentum mode multiplexer based on a mode-selective photonic lantern and a mode polarization controller. Optics Letters, 2018, 43, 4779.	1.7	38
2205	Hermiteâ€‰Gaussian mode sorter. Optics Letters, 2018, 43, 5263.	1.7	33

#	ARTICLE	IF	CITATIONS
2206	Measurement of the vortex spectrum in a vortex-beam array without cuts and gluing of the wavefront. Optics Letters, 2018, 43, 5635.	1.7	35
2207	Demonstration of a 10â€‰Mbit/s quantum communication link by encoding data on two Laguerreâ€‰Gaussian modes with different radial indices. Optics Letters, 2018, 43, 5639.	1.7	18
2208	Nonlinear frequency conversion and manipulation of vector beams. Optics Letters, 2018, 43, 5981.	1.7	29
2209	Measurement of the radial mode spectrum of photons through a phase-retrieval method. Optics Letters, 2018, 43, 6101.	1.7	12
2210	Polarization-independent orbital angular momentum generator based on a chiral fiber grating. Optics Letters, 2019, 44, 61.	1.7	47
2211	Spontaneous generation of orbital angular momentum crystals using a monolithic Nd:YAG nonplanar ring laser. Optics Letters, 2019, 44, 203.	1.7	13
2212	2D optically controlled radio frequency orbital angular momentum beam steering system based on a dual-parallel Machâ€‰Zehnder modulator. Optics Letters, 2019, 44, 255.	1.7	22
2213	Coherent optical wireless communication link employing orbital angular momentum multiplexing in a ballistic and diffusive scattering medium. Optics Letters, 2019, 44, 691.	1.7	15
2214	Improve polarization topological order sorting with the diffractive splitting method. Optics Letters, 2019, 44, 795.	1.7	12
2215	Generation of terahertz vortex pulses without any need of manipulation in the terahertz region. Optics Letters, 2019, 44, 887.	1.7	18
2216	Tailoring focused optical vortices by using spiral forked plates. Optics Letters, 2019, 44, 935.	1.7	11
2217	Abruptly autofocused and rotated circular chirp Pearcey Gaussian vortex beams. Optics Letters, 2019, 44, 955.	1.7	59
2218	Orbital angular momentum generation in two-mode fiber, based on the modal interference principle. Optics Letters, 2019, 44, 999.	1.7	9
2219	Seeing infrared optical vortex arrays with a nonlinear spiral phase filter. Optics Letters, 2019, 44, 2298.	1.7	8
2220	Orbital angular momentum demultiplexing with synthetic partial aperture receivers. Optics Letters, 2019, 44, 2689.	1.7	10
2221	On the origin of the optical vortex lattices in a nematic liquid crystal light valve. Optics Letters, 2019, 44, 2947.	1.7	6
2222	Higher-charge vortex solitons and vector vortex solitons in strongly nonlocal media. Optics Letters, 2019, 44, 3098.	1.7	35
2223	Beam profiler network (BPNet): a deep learning approach to mode demultiplexing of Laguerreâ€‰Gaussian optical beams. Optics Letters, 2019, 44, 3629.	1.7	10

#	ARTICLE	IF	CITATIONS
2224	Simultaneous measurement of the radial and azimuthal mode indices of a higher-order partially coherent vortex beam based on phase detection. <i>Optics Letters</i> , 2019, 44, 3881.	1.7	15
2225	Orbital angular momentum bistability in a microlaser. <i>Optics Letters</i> , 2019, 44, 4531.	1.7	7
2226	Refractive hard x-ray vortex phase plates. <i>Optics Letters</i> , 2019, 44, 4622.	1.7	15
2227	Demonstration of free-space one-to-many multicasting link from orbital angular momentum encoding. <i>Optics Letters</i> , 2019, 44, 4753.	1.7	39
2228	27- μm optical vortex beam directly generated from an Er:Y ₂ O ₃ ceramic laser. <i>Optics Letters</i> , 2019, 44, 4973.	1.7	14
2229	Mitigation for turbulence effects in a 40-Gbit/s orbital-angular-momentum-multiplexed free-space optical link between a ground station and a retro-reflecting UAV using MIMO equalization. <i>Optics Letters</i> , 2019, 44, 5181.	1.7	37
2230	All-fiber second-order orbital angular momentum generator based on a single-helix helical fiber grating. <i>Optics Letters</i> , 2019, 44, 5370.	1.7	49
2231	High conversion efficiency second-harmonic beam shaping via amplitude-type nonlinear photonic crystals. <i>Optics Letters</i> , 2020, 45, 220.	1.7	20
2232	Vortex $\hat{\mathbf{e}}_3$ rays from scattering laser bullets off ultrarelativistic electrons. <i>Optics Letters</i> , 2020, 45, 395.	1.7	16
2233	Broadband high-efficiency multiple vortex beams generated by an interleaved geometric-phase multifunctional metasurface. <i>Optical Materials Express</i> , 2020, 10, 1531.	1.6	29
2234	1-bit digital orbital angular momentum vortex beam generator based on a coding reflective metasurface. <i>Optical Materials Express</i> , 2018, 8, 3470.	1.6	51
2235	Compact and high-performance vortex mode sorter for multi-dimensional multiplexed fiber communication systems. <i>Optica</i> , 2020, 7, 254.	4.8	95
2236	Experimental certification of quantum dimensions and irreducible high-dimensional quantum systems with independent devices. <i>Optica</i> , 2020, 7, 1073.	4.8	9
2237	Subwavelength generation of nondiffracting structured light beams. <i>Optica</i> , 2020, 7, 1261.	4.8	15
2238	Frequency doubling of twisted light independent of the integer topological charge. <i>OSA Continuum</i> , 2019, 2, 470.	1.8	7
2239	Implementation of a two-dimensional quantum walk using cross-Kerr nonlinearity. <i>OSA Continuum</i> , 2019, 2, 1667.	1.8	4
2240	Q-switched laser with self-mode-filtering interferometric vortex output coupler. <i>OSA Continuum</i> , 2020, 3, 204.	1.8	3
2241	Bi-channel near- and far-field optical vortex generator based on a single plasmonic metasurface. <i>Photonics Research</i> , 2020, 8, 986.	3.4	19

#	ARTICLE	IF	CITATIONS
2242	Real-time observation of vortex mode switching in a narrow-linewidth mode-locked fiber laser. <i>Photonics Research</i> , 2020, 8, 1203.	3.4	22
2243	Deep-learning-assisted, two-stage phase control method for high-power mode-programmable orbital angular momentum beam generation. <i>Photonics Research</i> , 2020, 8, 715.	3.4	47
2244	Flat gain over arbitrary orbital angular momentum modes in Brillouin amplification. <i>Photonics Research</i> , 2019, 7, 748.	3.4	9
2245	Direct generation of an ultrafast vortex beam in a CVD-graphene-based passively mode-locked Pr:LiYF ₄ visible laser. <i>Photonics Research</i> , 2019, 7, 1209.	3.4	36
2246	To Twist or Not to Twist: Capacity Limits for Free-Space Channels. , 2016, , .		1
2248	Time-varying optical vortices enabled by time-modulated metasurfaces. <i>Nanophotonics</i> , 2020, 9, 2957-2976.	2.9	38
2249	Perspective on using multiple orbital-angular-momentum beams for enhanced capacity in free-space optical communication links. <i>Nanophotonics</i> , 2020, 10, 225-233.	2.9	36
2250	Recent progress of dynamic mode manipulation via acousto-optic interactions in few-mode fiber lasers: mechanism, device and applications. <i>Nanophotonics</i> , 2021, 10, 983-1010.	2.9	16
2251	Pearcey beams carrying orbital angular momentum. <i>Computer Optics</i> , 2015, 39, 453-458.	1.3	4
2252	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, .	1.3	6
2254	Investigation of the topological charge stability for multi-ringed Laguerre–Gauss vortex beams to random distortions. <i>Computer Optics</i> , 2019, 43, .	1.3	8
2255	High-speed format 100GBASE-SX / LX transmission through the atmosphere by vortex beams near IR range with help modified SFP-transmitters DEM-310GT. <i>Computer Optics</i> , 2020, 44, .	1.3	20
2256	Fiber-based mode converter for generating optical vortex beams. <i>Opto-Electronic Advances</i> , 2018, 1, 180003-180003.	6.4	15
2257	A Review of Orbital Angular Momentum Vortex Beams Generation: From Traditional Methods to Metasurfaces. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1015.	1.3	73
2258	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. <i>Research</i> , 2019, 2019, 3806132.	2.8	22
2259	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. <i>Research</i> , 2019, 2019, 8326701.	2.8	21
2260	Encoding and Multiplexing of 2D Images with Orbital Angular Momentum Beams and the Use for Multiview Color Displays. <i>Research</i> , 2019, 2019, 9564593.	2.8	12
2261	A Small-Divergence-Angle Orbital Angular Momentum Metasurface Antenna. <i>Research</i> , 2019, 2019, 9686213.	2.8	29

#	ARTICLE	IF	CITATIONS
2262	Spatial Wavefunction Characterization of Femtosecond Pulses at Single-Photon Level. Research, 2020, 2020, 2421017.	2.8	3
2263	Amplifying Orbital Angular Momentum Modes in Ring-Core Erbium-Doped Fiber. Research, 2020, 2020, 7623751.	2.8	25
2264	Realisation of orbital angular momentum sorter of photons based on sagnac interferometer. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 130704.	0.2	3
2265	Research progress on preparation, manipulation, and remote sensing applications of high-order orbital angular momentum of photons. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 164210.	0.2	6
2266	Analysis of orbital angular momentum spectra of Hankel-Bessel beams in channels with oceanic turbulence. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 114201.	0.2	11
2267	Optical Trapping Force on Two Types of Particles with a Focused Partially Coherent Lommel-Gaussian Beam. SSRN Electronic Journal, 0, , .	0.4	0
2268	Demonstration of 8-Channel 32-Gbit/s QPSK Wireless Communications at 0.28-0.33 THz Using 2 Frequency, 2 Polarization, and 2 Mode Multiplexing. , 2021, , .		6
2269	Design of compact multi-ring-core few-mode fiber for dense space-division multiplexing in C+L band. , 2021, , .		0
2270	A Review on Orbital Angular Momentum (OAM) Beams: Fundamental Concepts, Potential Applications, and Perspectives. , 2021, , .		5
2271	Propagation Characteristics of Laguerre-Gaussian Beams with OAM in Atmospheric Turbulence. , 2021, , .		0
2272	Flexible Vortex Beam Generation Utilizing a Two-Dimensional Dynamic Metasurface. , 2021, , .		0
2273	Structuring the Reflected Beams by a Single Metasurface by Exploiting Composite Vortex Properties. , 2021, , .		0
2274	Optical diffractive deep neural network-based orbital angular momentum mode add-drop multiplexer. Optics Express, 2021, 29, 36936.	1.7	9
2275	Effects of turbulent atmosphere on the propagation properties of vortex Hermite-cosine-hyperbolic-Gaussian beams. Optical and Quantum Electronics, 2021, 53, 1.	1.5	16
2276	A perspective on twisted light from on-chip devices. APL Photonics, 2021, 6, .	3.0	14
2277	Deep-learning-based recognition of multi-singularity structured light. Nanophotonics, 2022, 11, 779-786.	2.9	29
2278	Visible and Online Detection of Near-Infrared Optical Vortices via Nonlinear Photonic Crystals. Advanced Optical Materials, 2022, 10, 2101098.	3.6	11
2279	Amplification of 14 orbital angular momentum modes in ring-core erbium-doped fiber with high modal gain. Optics Letters, 2021, 46, 5647.	1.7	12

#	ARTICLE	IF	CITATIONS
2280	Mode analyzer for known optical vortices from a spatial light modulator with collinear holography. Applied Optics, 2021, 60, 9706.	0.9	3
2281	Asymmetrical bidirectional VLC based on beam homogenizer OAM generation technology. Optics Letters, 2021, 46, 5381.	1.7	1
2282	High-peak-power structured beams by an Nd:YAG/Cr ⁴⁺ :YAG laser in a near-hemispherical cavity. Optics Letters, 2021, 46, 5481.	1.7	2
2283	Nanophotonic manipulation of optical angular momentum for high-dimensional information optics. Advances in Optics and Photonics, 2021, 13, 772.	12.1	26
2284	Multidimensional phase singularities in nanophotonics. Science, 2021, 374, eabj0039.	6.0	108
2285	Performance optimization of multi-plane light conversion (MPLC) mode multiplexer by error tolerance analysis. Optics Express, 2021, 29, 37852.	1.7	12
2286	High Efficiency Focusing and Vortex Generator Based on Polarization-Insensitive Gallium Nitride Metasurface. Nanomaterials, 2021, 11, 2638.	1.9	9
2287	Synthetic helical dichroism for six-dimensional optical orbital angular momentum multiplexing. Nature Photonics, 2021, 15, 901-907.	15.6	112
2288	Generation of coaxial vortex beams with doubled topological charges using a stacked liquid crystal structure. Japanese Journal of Applied Physics, 0, , .	0.8	3
2289	Conflict-free collective stochastic decision making by orbital angular momentum of photons through quantum interference. Scientific Reports, 2021, 11, 21117.	1.6	12
2290	Azimuthal modulation of electromagnetically induced grating using structured light. Scientific Reports, 2021, 11, 20721.	1.6	41
2291	Orbital angular momentum of light for communications. Applied Physics Reviews, 2021, 8, .	5.5	137
2292	Application of optical orbital angular momentum to rotation measurements. Results in Optics, 2021, 5, 100158.	0.9	10
2293	Tunable Filter for Orbital-Angular-Momentum Multiplexed Optical Channels. , 2013, , .		0
2294	T.echnologies in Li.ghtwave Communications: Innovations (and Their Needs) Abound. , 2013, , .		0
2295	Orbital-Angular-Momentum-Based Reconfigurable and Lossless Optical Add/Drop Multiplexing of Multiple 100-Cbit/s Channels. , 2013, , .		0
2296	Creation of Vortex Beam based on Integrated Ring-shape Bragg Reflector Waveguide. , 2013, , .		0
2297	Integrated photonic orbital angular momentum devices: Progress, potential applications, and future issues. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
2298	On-chip identifying topology charges of OAM beams with multi-beam interference. , 2013, , .		0
2299	Optical Beamform Engineering Using Phase and Amplitude Coded Nanophotonic Antenna Arrays. , 2013, , .		1
2300	Supersymmetric optical fibers for integrated angular momentum multiplexing. , 2013, , .		0
2301	Scintillation of Nonuniformly Correlated Beams in Atmospheric Turbulence. , 2013, , .		0
2302	Alignment-free QKD along a free-space channel combining spinorial and orbital angular momentum. , 2014, , .		0
2303	Characterization of OAM states affected by turbulence for high-speed short-range links. , 2014, , .		0
2304	Nonlinear Equalization in 40/112/224 Gbit/s Mixed Line Rate 15-Channel DP-QPSK and DP-16QAM Contiguous Spectrum Based Networks. , 2014, , .		0
2305	Design of On-Chip N-Fold Multicasting from A Single Gaussian Mode to Multiple Orbital Angular Momentum (OAM) Modes Using V-Shaped Antenna Array. , 2014, , .		0
2306	Demonstration of a 280 G-bit/s communications link utilizing plane-wave multiplexing. , 2014, , .		0
2307	Demonstration of a Visible-Light Communication Link Employing High-Base Vector Beam Modulation/Demodulation. , 2014, , .		0
2308	Demonstration of Free-Space Nyquist Signals Transmission Employing Orbital Angular Momentum. , 2014, , .		0
2309	Demonstration of Analog Signal Transmission in an Orbital Angular Momentum (OAM) Multiplexing System. , 2014, , .		0
2310	Coded orbital angular momentum based free-space optical transmission in the presence of atmospheric turbulence. , 2015, , .		6
2311	Experimental Demonstration of Reconfigurable N ² —N Joint Orbital Angular Momentum (OAM) and Space Switching Fabric Using a Single Spatial Light Modulator (SLM). , 2015, , .		0
2312	Probability distributions for orbital angular momentum and local circulation in vortex beams. , 2015, , .		0
2313	Experimental Demonstration of N-Dimensional 1-to-1100 Multicasting (25 Wavelengths λ — 22 Orbital) Tj ETQq1 1 0.784314 rgBT /Ove		1
2314	Simultaneous Amplification of Multiple 2 $\hat{1}$ / ₄ m Vortex Beams. , 2015, , .		0
2315	Microstructured Optical Fibers for Transmitting Orbital Angular Momentum (OAM) Modes. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
2316	Experimental Demonstration of Linearly Polarized (LP) Modes and Orbital Angular Momentum (OAM) Modes Conversion in Few-Mode Fiber. , 2015, , .		1
2317	Direct measurement of the quantum density matrix in the basis of azimuthal angle. , 2015, , .		0
2318	A Coulomb-like potential for optical vortices. , 2015, , .		0
2319	Design of Integrated Circularly Polarized Orbital Angular Momentum (OAM) Beam Emitter Using Microring with Interleaved Tailored Angular Gratings. , 2015, , .		0
2320	Demonstration of Hybrid Orbital Angular Momentum Multiplexing and Time-Division Multiplexing Passive Optical Network. , 2015, , .		0
2321	The First Experiment to Transmit RF Data in OAM Mode with Optical-assisted Circular Antenna Array. , 2015, , .		1
2322	Complete analytic solution to vortex beam diffraction through a triangular aperture. , 2015, , .		0
2323	General Beams. Springer Theses, 2015, , 81-107.	0.0	0
2324	Experimental Demonstration of Radio Frequency Orbital Angular Momentum Multiplexed Communication System Using Microwave Photonic Demultiplexer. , 2015, , .		0
2325	Optical-to-RF Frequency Synthesis: Application Priorities for Ultra-low Phase Noise. , 2015, , .		0
2326	Rotationally Symmetric Beams. Springer Theses, 2015, , 59-79.	0.0	0
2327	Demonstration of using Passive Integrated Phase Masks to Generate Orbital-Angular-Momentum Beams in a Communications Link. , 2016, , .		0
2328	Generation of photonic orbital angular momentum superposition states using vortex beam emitters with superimposed gratings. , 2016, , .		0
2329	Orbital Angular Momentum Mode Multiplexer Based on Multimode Micro-Ring Resonator with Angular Gratings. , 2016, , .		1
2330	Multiplexing and Amplification of $2\hat{1}/4\text{m}$ Vortex Beams. , 2016, , .		0
2331	Theoretical and Experimental Demonstration of Orbital Angular Momentum (OAM) States Measurements of Vortex Beams with Annular Gratings. , 2016, , .		0
2332	Free-space communication with over 100 spatial modes. , 2016, , .		0
2333	Characterizing a $10\hat{\text{A}}-10$ OAM propagation matrix of few-mode fiber by a dual-interference pattern method. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
2334	Investigation of scalability of all-fiber fused mode selective coupler for generating multiple OAM states. , 2016, , .		1
2335	Pulsed Amplification of 2 $\hat{1}/4$ m Concentric Vortex Beams. , 2016, , .		0
2336	CMA Equalization for a 2 Gb/s Orbital Angular Momentum Multiplexed Optical Underwater Link through Thermally Induced Refractive Index Inhomogeneity. , 2016, , .		1
2337	Orbital Angular Momentum (OAM) based Optical Routing using Reconfigurable Optical Vortex Grating. , 2016, , .		0
2338	Experimental Performance Evaluation of Analog Signal Transmission System with Photonic Integrated Optical Vortex Emitter and 3.6 km Few-Mode Fiber Link. , 2016, , .		1
2339	Study of Orbital Angular Momentum Mode Crosstalk Induced by Propagation Through Water. , 2016, , .		1
2340	Can information Capacity be Increased with Orbital Angular Momentum?. , 2016, , .		1
2341	Comparison of Orbital Angular Momentum (OAM) Based OFDM and Conventional Optical Fiber-OFDM Systems. , 2016, , .		0
2342	Energy equalization of a set of coherent OAM states by means of optimal phase gratings. , 2016, , .		0
2343	Free Space Propagation of Concentric Vortices through Underwater Turbid Environments. , 2016, , .		3
2344	Pump Beam Engineering for Vortex Beam in a Ho:YAG Rod Amplifier. , 2016, , .		0
2345	Orbital Angular Momentum in Photon-Phonon Coupling. , 2016, , .		0
2346	Experimental Demonstration of Dense Fractional Orbital Angular Momentum (OAM) Multiplexing with a Channel Spacing of 0.2 Assisted by MIMO Equalization. , 2016, , .		1
2347	Electromagnetic Waves of Even Rotational Indices with Electric Field Parallel to Magnetic Field. , 2016, , .		0
2348	Efficient Crosstalk Mitigation of a Free-Space Orbital Angular Momentum Multiplexed Communication Link by using Maximum Likelihood Detection. , 2016, , .		0
2349	Channel effects and mitigation approaches in free-space and underwater optical communications using orbital angular momentum multiplexing. , 2016, , .		0
2350	Experimental demonstration of an FPGA-based optical communication system using space-shift modulation. , 2016, , .		0
2351	Manipulating optical vortices using integrated photonics. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
2352	Discrimination of Orbital Angular Momentum Modes of the Terahertz Vortex Beam via Diffractive Elements. , 2016, , .		1
2353	Tunable Mid-infrared 3.5 μ m optical vortex MgO:PPLN parametric oscillator. , 2017, , .		0
2354	Free-space optical communication based on hybrid optical mode array encoding. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 144102.	0.2	0
2355	Dynamic Free-Space Propagation of Interfering Composite Vortices. , 2017, , .		0
2356	Design of Integrated Orbital Angular Momentum (OAM) Emitter Based on AlGaInAs/InP Epitaxial Wafer. , 2017, , .		0
2357	3.36-Tbit/s OAM and Wavelength Multiplexed Transmission over an Inverse-Parabolic Graded Index Fiber. , 2017, , .		6
2358	Reduced Effect of Single-Photon-Detector Deadtime Using a Switchable Detector Array in an Orbital-Angular-Momentum (OAM) Encoded Quantum System. , 2017, , .		0
2359	A 3 μ m—3 μ m Switch Exploiting an Optical Vortex Beam Emitter based on a Silicon Three-Grating Microring. , 2017, , .		0
2360	Holographic generation of high-harmonic vortex beams. , 2017, , .		0
2361	Diffraction Insensitive Object Parameter Sensing Using Orbital Angular Momentum Based Spectral Analysis. , 2017, , .		0
2362	Demonstration of Hybrid Orbital Angular Momentum (OAM) and Gaussian Mode Encoding/Decoding for 10-Gbit/s Data Transmission through a 2.6-km Conventional Graded-Index Multimode (OM3) Fiber. , 2017, , .		0
2363	Orbital Angular Momentum Mode Multiplexer Based on Bilayer Concentric Micro-Ring Resonator. , 2017, , .		3
2364	Design and Fabrication of 2 μ m Metasurface-based Orbital Angular Momentum (OAM) Mode Generator Employing Reflective Optical Antenna Array. , 2017, , .		0
2365	Shared-aperture multitasking Pancharatnam-Berry phase dielectric nanoantenna array. , 2017, , .		0
2366	Far-Field Beam Modulations by Plasmonic Structures. Springer Theses, 2017, , 85-113.	0.0	0
2368	Capacity Limits for Free-Space Channels. , 2017, , .		0
2369	Research and Simulation on the Small-scale Streaming Data Transmission Communication System based on ARM and FPGA. , 2017, , .		0
2370	Functionalized liquid crystal polymers generate optical and polarization vortex beams. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
2371	Radial modes in phase-only twisted light beams. , 2017, , .		0
2372	Quantum Storage of High-D OAM Entanglement in an Atomic Ensemble. Springer Theses, 2018, , 73-89.	0.0	0
2373	Quantum Storage of 2-D OAM Entanglement in an Atomic Ensemble. Springer Theses, 2018, , 55-71.	0.0	0
2375	Visible Light Communication based on Orbital Angular Momentum Multiplexing. , 2018, , .		1
2376	Ultrathin Optical Fibers: Guided Modes, Angular Momentum, and Applications. The Review of Laser Engineering, 2018, 46, 196.	0.0	0
2377	4 OAM x 4 WDM Optical Switching Based on an Innovative Integrated Tunable OAM Multiplexer. , 2018, , .		12
2378	Phase Purity Measurement of Ultra-Broadband Orbital Angular Momentum Mode Excited by Meta-Facet Few-Mode Fiber. , 2018, , .		0
2379	Tunable Mid-infrared optical vortex parametric oscillator. , 2018, , .		0
2380	Partially Coherent Vortex Beams in the Atmosphere. , 2018, , .		2
2381	Progress of detecting orbital angular momentum states of optical vortices through diffraction gratings. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 034201.	0.2	3
2382	Handedness control of a mid-infrared 3.5 μ m optical vortex MgO: PPLN parametric oscillator. , 2018, , .		0
2383	Effect of Limited Aperture Size on a Retro-reflected Communication Link Between a Ground Station and a UAV using Multiplexing of Orbital-Angular-Momentum Beams. , 2018, , .		0
2384	Stationary beam synthesis from its coherent modes. , 2018, , .		0
2385	All-Fiber Full-Duplex Bidirectional Data Transmission for Data Center Networks (DCNs) over 2-km Orbital Angular Momentum (OAM) Fiber using Commercial SFP+ Transceivers and Mode Selective Couplers. , 2018, , .		1
2386	Generation of Prescribed Optical Orbital Angular Momentum Spectrum with Spiral Polarization Modulation. , 2018, , .		0
2387	Design of Logarithmic-Index Fiber for Orbital Angular Momentum (OAM) Transmission. , 2018, , .		0
2388	Multi-region calibration of LC SLM for all optical dynamic modulation/multiplexation. , 2018, , .		0
2389	Packing multiple OAMs for spatial multiplexing. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
2390	Generation of wavelength- and orbital-angular-momentum-tunable vortex beam in Yb:CALGO laser. , 2018, , .		0
2391	Wavevector-multiplexed and memory-enabled source of multimode nonclassical light. , 2018, , .		0
2392	Design, Fabrication and Demonstration of Ultra-Broadband Orbital Angular Momentum (OAM) Modes Emitter and Synthesizer on Silicon Platform. , 2018, , .		0
2393	Partially coherent vortex beams. , 2018, , .		7
2394	ORBITAL ANGULAR MOMENTUM OF AN ASTIGMATIC HERMITE-GAUSSIAN BEAM. Computer Optics, 2018, 42, 13-21.	1.3	3
2395	Exploiting scattering for single-shot measurement of the orbital angular momentum spectrum of light fields. , 2018, , .		0
2396	Dynamic shaping of orbital-angular-momentum beams with an optimized Lee method. , 2018, , .		0
2397	Fabrication of ring-core waveguide structure inside silicate glass by using CW laser metal microsphere manipulation. , 2018, , .		0
2398	Micron-scale light structuring via flat nanodevices. , 2018, , .		5
2399	A modified Gerchberg-Saxton algorithm for design diffractive optical elements generating light distributions with submicron features. , 2018, , .		0
2400	Simulation of vortex laser beams superposition propagation through a random optical environment. , 2018, , .		0
2401	A High-Gain Orbital Angular Momentum Antenna Array Based on Parasitic Composite Slabs. , 2018, , .		0
2402	Capacity analysis for free space coherent optical MIMO transmission systems: with and without adaptive optics. Optics Express, 2018, 26, 23008.	1.7	2
2403	Coherent frequency bridge between visible and telecommunications band for vortex light. , 2018, , .		0
2404	Spin-orbit coupling in vortex light: can it be revealed in fundamental electronic transitions?. , 2018, , .		0
2405	Engineering the intensity trajectory and phase gradient of light beams. , 2018, , .		0
2406	Investigation of mode demultiplexer for Laguerre-Gaussian mode multiplexing in free space. , 2018, , .		0
2407	Interferometry-based modal analysis with finite aperture effects. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2018, 35, 1880.	0.8	1

#	ARTICLE	IF	CITATIONS
2408	Effects of turbulence on the transmission of partially coherent vortex beams in the ocean environment. , 2018, , .		0
2409	Generation of Hermite-Laguerre-Gaussian beams based on space-variant Pancharatnam Berry phase. , 2018, , .		1
2410	Reconfigurable vortex beam generator based on the Fourier transformation principle. Optics Express, 2018, 26, 31880.	1.7	3
2411	Optimal transmission modes under atmosphere turbulence with transmitter/receiver aperture size constraint. Optics Express, 2018, 26, 33333.	1.7	1
2412	Spiral spectrum analysis and application ofcoherent synthetic vortex beams. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 214206.	0.2	2
2413	1.5 Åµm optical vortex parametric oscillator based on KTA. , 2019, , .		0
2414	Experimental Demonstration of Enhanced Accuracy of Beam Radial Displacement and Azimuthal Rotation Measurements using Enhanced Gradient of a Beam Composed of Multiple Orbital-Angular-Momentum Modes. , 2019, , .		0
2415	Experimental Demonstration of an Underwater Wireless Optical Link Employing Orbital Angular Momentum (OAM) Modes with Fast Auto-Alignment System. , 2019, , .		3
2416	Experimental Mitigation of Atmospheric Turbulence Effect using Pre-Channel Combining Phase Patterns for Uni- and Bidirectional Free-Space Optical Links with Two 100-Gbit/s OAM-Multiplexed Channels. , 2019, , .		2
2417	All-Fiber Orbital Angular Momentum (OAM) Functional Devices for Mode-Division (De)Multiplexing in Conventional Graded-Index Multimode Fiber. , 2019, , .		6
2418	Raman protocol-based quantum memories. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 034203.	0.2	2
2419	Research on stitching metrology of large aperture continuous spiral phase plate. , 2019, , .		0
2420	Manipulating Orbital Angular Momentum with Spatial Coherence. , 2019, , .		0
2421	Spin-Controlled Beam Shaping with Catenary Subwavelength Structures. , 2019, , 41-92.		0
2422	Diversity on the Influence of Atmospheric Turbulence for the States Carrying Orbital Angular Momentum. , 0, , .		0
2423	Spatial Mode Multiplexing with Integrated Optics. , 2019, , .		0
2424	Using an Integrated Silicon Emitter to Generate Two Coaxial Orbital-Angular-Momentum Beams with Tunable Mode Orders and Broad Bandwidth. , 2019, , .		1
2425	Generating terahertz perfect optical vortex beams via 3D printed diffractive phase elements. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
2426	Direct generation of vortex beams from a diode-pumped Pr ³⁺ :YLF laser. , 2019, , .		1
2427	Single-End Adaptive Optics Compensation for Emulated Turbulence in a Bi-Directional 10-Mbit/s per Channel Free-Space Quantum Communication Link Using Orbital-Angular-Momentum Encoding. Research, 2019, 2019, 1-10.	2.8	1
2428	Spiral Field Generation in Smith-Purcell Radiation by Helical Metagratings. Research, 2019, 2019, 1-8.	2.8	7
2429	Photonic quasicrystal fiber supporting orbital angular momentum modes. , 2019, , .		0
2430	Encoding and Multiplexing of 2D Images with Orbital Angular Momentum Beams and the Use for Multiview Color Displays. Research, 2019, 2019, 1-11.	2.8	3
2431	Laguerre-Gaussian mode sorter. , 2019, , .		0
2432	Conical ring beam achieved via degenerated optical parametric generation in tightly focused quasi-phase matching conditions. , 2019, , .		0
2433	Unified coupling and propagation model for spatially multiplexed optical communication systems using Bessel-Gaussian beams. Optical Engineering, 2019, 58, 1.	0.5	1
2435	Cylindrical vector beams multiplexing communication in air-core photonic crystal fiber. Optical Engineering, 2019, 58, 1.	0.5	1
2436	Generation of optical vortices using a uniaxially aligned azo-dye-doped liquid crystal cell and space-variant polarization projection system. Applied Optics, 2019, 58, 7145.	0.9	0
2437	Sorting-based approach to multiphoton interference. Optics Letters, 2019, 44, 4993.	1.7	2
2438	The Study on Twisted Light Communication Using Orbital Angular Momentum. Lecture Notes on Data Engineering and Communications Technologies, 2020, , 453-461.	0.5	0
2439	Diffraction properties and applications of spatially structured optical fields with fractal amplitude masks. Applied Optics, 2019, 58, 8631.	0.9	2
2440	High Performance OAM Communication Exploiting Port-Azimuth Effect of Loop Antennas. IEICE Transactions on Communications, 2019, E102.B, 2267-2275.	0.4	4
2441	Direct plasmonic photodetection of optical angular momentum. , 2019, , .		0
2442	Properties and Performance of the Orbital-Angular-Momentum Modes in Wireless Communication. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 514-526.	0.2	0
2443	Research progress of applications of acoustic-vortex information. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 244301.	0.2	7
2444	Complex-amplitude metasurfaces for orbital angular momentum multiplexing holography. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
2445	Structure of modes with greater than unity azimuthal number in twisted anisotropic optical fibers. , 2020, , .		0
2446	Comparative study of propagation of circular Airy beams and Gauss-Laguerre beams in a parabolic fiber. , 2020, , .		0
2447	Generation of optical vortices via induced by acousto-optic interaction helical fiber grating. , 2020, , .		0
2448	On the Effectiveness of Kinoform Operations in Holography. , 2020, , .		0
2449	Theoretical analysis on spatially structured beam induced mass transport in azo-polymer films. Optics Express, 2020, 28, 19954.	1.7	2
2450	Density-matrix formalism for modal coupling and dispersion in mode-division multiplexing communications systems. Optics Express, 2020, 28, 18658.	1.7	10
2451	Silicon (111) chiral structures fabricated by illumination of optical vortex. , 2020, , .		0
2452	Controllable propagation and transformation of chiral intensity field at focus. Optics Letters, 2020, 45, 4823.	1.7	10
2453	Introduction to 5G and Beyond. , 2021, , 1-25.		3
2454	Propagation of a centrosymmetric optical vortex beam through a paraxial ABCD system with an axicon. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2020, 37, 1448.	0.8	1
2455	“Hiding” a low-intensity 50 Gbit/s QPSK free-space OAM beam using an orthogonal coaxial high-intensity 50 Gbit/s QPSK beam. Applied Optics, 2020, 59, 7448.	0.9	1
2456	Laguerre-Gaussian transform for rotating image processing. Optics Express, 2020, 28, 26898.	1.7	8
2457	Demonstrating the use of OAM modes to facilitate the networking functions of carrying channel header information and orthogonal channel coding. Optics Letters, 2020, 45, 4381.	1.7	0
2458	Nanophotonic Materials for Twisted Light Manipulation. Advanced Materials, 2023, 35, e2106692.	11.1	24
2459	Optical Singularity Built on Tiny Holes. Annalen Der Physik, 2021, 533, 2100147.	0.9	7
2460	Structuring total angular momentum of light along the propagation direction with polarization-controlled meta-optics. Nature Communications, 2021, 12, 6249.	5.8	59
2461	Focusing properties of power order space-variant phase modulate Bessel-Gaussian vortex beam. Optik, 2021, 249, 168235.	1.4	1
2462	Cylindrical vector beam multiplexer/demultiplexer using off-axis polarization control. Light: Science and Applications, 2021, 10, 222.	7.7	60

#	ARTICLE	IF	CITATIONS
2463	Simulation of non-line-of-sight communication with nonuniform Monte-Carlo model. , 2021, , .		0
2464	Radial phase shift spiral zone plate fabrication using direct laser writing for generating a perfect vortex beam. , 2021, , .		1
2465	Wide-angle method for vortex electromagnetic wave generation using field transformation. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 135201.	0.2	1
2466	Propagation Properties of Optical Beams with Multi-OAM Modes: Effect of the Off-Axis Vortex. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 573-581.	0.2	0
2467	Orbital Angular Momentum (OAM) Carried by Asymmetric Vortex Beams for Wireless Communications: Theory and Experiment. , 2020, , .		1
2468	OV-bearing modes with $\ell = 2$ of twisted anisotropic optical fibres. Journal of Physics: Conference Series, 2020, 1697, 012162.	0.3	0
2469	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link using Pilot Tones and Optoelectronic Wave Mixing. , 2020, , .		2
2470	Full-duplex FSO Communication System utilizing Optical Image Stabilizer and Free-Space Optical Circulator. , 2020, , .		4
2471	Simulation of the super-Gauss beam abrupt focusing in the near diffraction zone using high-performance computer systems. Journal of Physics: Conference Series, 2020, 1695, 012110.	0.3	2
2472	Experimental evaluation of spectral efficiency from a circular array antenna producing a Laguerre-Gauss mode. Royal Society Open Science, 2020, 7, 201711.	1.1	2
2473	Twisted waves in symmetric and asymmetric bi-ion kappa-distributed plasmas. Physics of Plasmas, 2020, 27, .	0.7	6
2474	Circular polarization shift-keying and amplitude shift-keying hybrid modulation method based on orbital angular momentum division multiplexing. , 2020, , .		0
2475	Multipath and Receiver Aperture Effects in a THz Wireless Communications Link using OAM Multiplexing. , 2020, , .		2
2476	Tunable vortex laser based on intra-cavity aspheric lens. , 2020, , .		0
2477	Second-harmonic generation of single-mode Laguerre-Gaussian beams with an improved quasi-phase-matching method. Optics Express, 2020, 28, 39241.	1.7	3
2478	Hybrid OAM Multiplexing using Butler Matrices toward over 100 Gbit/s Wireless Transmission. , 2020, , .		5
2479	Laser Beam Measurement and Characterization Techniques. , 2021, , 1885-1925.		0
2480	Fiber-to-Fiber FSO System with Advanced VCM Controlled Laser Beam Pointing and Tracking. , 2021, , .		4

#	ARTICLE	IF	CITATIONS
2481	Demonstration of 2-Gbit/s Free-Space Optical Communications Through Dynamic Aerosol and Dynamic Water Interface using Orbital-Angular-Momentum Multiplexing. , 2021, , .		1
2482	Demonstration of a Tunable, Broadband Pixel-Array-based Photonic-Integrated-Circuit Receiver for Recovering Two 100-Gbit/s QPSK Orbital-Angular-Momentum Multiplexed Channels. , 2021, , .		2
2483	Demonstration of Free-Space 300-Gbit/s QPSK Communications Using Both Wavelength- and Mode-Division-Multiplexing in the Mid-IR. , 2021, , .		7
2484	Optical-controlled Fast Switching of Radio Frequency Orbital Angular Momentum Beams With Different Mode and Radiation Direction. Journal of Lightwave Technology, 2022, 40, 640-646.	2.7	7
2485	Active sorting of orbital angular momentum states of light with a cascaded tunable resonator. Light: Science and Applications, 2020, 9, 10.	7.7	14
2486	Influence of coma and spherical aberration on transmission characteristics of vortex beams in slant atmospheric turbulence. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 014201.	0.2	1
2487	Performance comparison of different OAM-based mode diversity schemes with coherent receipt under atmosphere turbulence. , 2020, , .		0
2488	Simultaneous Orthogonalizing and Shaping of Multiple LG Beams to Mitigate Crosstalk and Power Loss by Transmitting Each of Four Data Channels on Multiple Modes in a 400-Gbit/s Free-Space Link. , 2020, , .		3
2489	Rapidly Reconfigurable Pulsed Higher Order Bessel Beams. , 2020, , .		1
2490	Performance analysis of a LDPC coded OAM-based UCA FSO system exploring linear equalization with channel estimation over atmospheric turbulence: comment. Optics Express, 2020, 28, 816.	1.7	1
2491	Coherent Vortices Properties of Partially Coherent Elegant Laguerre-Gaussian Beams in the Free Space. Optics and Photonics Journal, 2020, 10, 159-166.	0.3	3
2492	Towards multichannel terahertz telecommunication based on mode division multiplexing. AIP Conference Proceedings, 2020, , .	0.3	5
2493	Orbital angular momentum radiator multiplexing electromagnetic waves in free space. Optics Express, 2020, 28, 345.	1.7	12
2494	Simultaneous Turbulence Mitigation and Mode Demultiplexing using one MPLC in a Two-Mode 200-Gbit/s Free-Space OAM-Multiplexed Link. , 2020, , .		2
2495	Design of Orbital Angular Momentum Modes Coupler Based on Circular Photonic Crystal Fiber. , 2020, , .		2
2496	Spiral spectrum of anomalous vortex beams propagating in a weakly turbulent atmosphere. Journal of Modern Optics, 2020, 67, 501-506.	0.6	4
2497	Investigate the performance of real-time adaptive optics correction in a turbulent high-dimensional quantum communication channel. , 2020, , .		0
2498	Systematic parameter study of orbital angular momentum based radio communication using mixed-mode matrix. IET Microwaves, Antennas and Propagation, 2020, 14, 694-699.	0.7	0

#	ARTICLE	IF	CITATIONS
2499	Direct generation of the lowest-order vortex beam using a spot defect mirror in the ultraviolet region. <i>Optics Letters</i> , 2020, 45, 2115.	1.7	10
2500	Nonlinear wavefront engineering with metasurface decorated quartz crystal. <i>Nanophotonics</i> , 2022, 11, 797-803.	2.9	7
2501	Polarization-independent quadri-channel vortex beam generator based on transmissive coding metasurface. <i>OSA Continuum</i> , 0, , .	1.8	4
2502	Excitation of Eigenwaves by a Vortex Electromagnetic Beam in a Semi-Infinite Cylinder Filled with a Gyrotropic Medium. <i>Radiophysics and Quantum Electronics</i> , 2021, 64, 26-37.	0.1	0
2503	Dynamic aerosol and dynamic air-water interface curvature effects on a 2-Gbit/s free-space optical link using orbital-angular-momentum multiplexing. <i>Nanophotonics</i> , 2022, 11, 885-895.	2.9	5
2504	Partially coherent vortex cosh-Gaussian beam and its paraxial propagation. <i>Optical and Quantum Electronics</i> , 2021, 53, 1.	1.5	12
2505	Tailoring diffraction of light carrying orbital angular momenta. <i>Optics Letters</i> , 2020, 45, 3909.	1.7	2
2506	Power loss mitigation of orbital-angular-momentum-multiplexed free-space optical links using nonzero radial index Laguerre-Gaussian beams. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2656.	0.9	0
2507	Generation and Manipulation of Nonclassical Photon Sources in Nonlinear Processes. , 0, , .		0
2508	Broadband high-efficiency multiple vortex beams generated by an interleaved geometric-phase multifunctional metasurface. <i>Optical Materials Express</i> , 2020, 10, 1531.	1.6	8
2509	Upconversion detection of 1.25 Gb/s mid-infrared telecommunications using a silicon avalanche photodiode. <i>Optics Express</i> , 2020, 28, 34279.	1.7	5
2510	Highly dispersive Ge-doped coupled ring fiber for high-order OAM modes. , 2020, , .		1
2511	Non-dipole effect in vortex high-order harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 215601.	0.6	1
2512	All-dielectric metasurface with multi-function in the near-infrared band. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2020, 37, 1731.	0.8	2
2513	Measurement of the phase structure of elliptically polarized undulator radiation. <i>New Journal of Physics</i> , 2020, 22, 093061.	1.2	2
2514	Comprehensive model and performance optimization of phase-only spatial light modulators. <i>Measurement Science and Technology</i> , 2020, 31, 125202.	1.4	11
2515	Comparison of propagation properties of circular edge dislocation beams and circular-linear edge dislocation beams. <i>OSA Continuum</i> , 2020, 3, 2997.	1.8	3
2516	Generation of orbital angular momentum and focused beams with tri-layer medium metamaterial*. <i>Chinese Physics B</i> , 2020, 29, 104101.	0.7	12

#	ARTICLE	IF	CITATIONS
2517	Receiving sensitivity improvement by wide-spectrum OAM with OTDM and polarization multiplexing in weak atmospheric turbulence. <i>Applied Optics</i> , 2020, 59, 8119.	0.9	0
2518	Product-Gauss integration method in the numerical investigation of relativistic self-focusing critical power of intense laser beams with LG_{10} and LG_{20} modes in plasma. <i>Physica Scripta</i> , 2021, 96, 015501.	1.2	0
2519	Double optomechanical induced transparency and measurement of orbital angular momentum of twisted light. <i>Physica Scripta</i> , 2021, 96, 015102.	1.2	5
2520	Detection of double orbital angular momentum modes in monochromic dynamic bi-orbital angular momentum multiplexing by ptychography. <i>Optical Engineering</i> , 2020, 59, .	0.5	0
2521	Measuring OAM states of Bessel vortex beams by using an elliptical aperture covering the partial azimuth angle. , 2020, , .		0
2522	Image transmission with binary coding for free space optical communications in the presence of atmospheric turbulence. <i>Applied Optics</i> , 2020, 59, 10283.	0.9	7
2523	A method of wavefront distortions correction for an atmospheric optical link with a small volume of information transmitted through a service channel. <i>Computer Optics</i> , 2020, 44, .	1.3	3
2524	Experimental Demonstration of Amplifying 14 Orbital Angular Momentum Modes in Ring-Core Erbium-Doped Fiber with High Modal Gain. , 2021, , .		1
2525	Generation and Propagation of Partially Coherent Power-Exponent-Phase Vortex Beam. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	7
2526	Generation of higher-order orbital angular momentum modes and (de)multiplexing based on double-trench SOI waveguide. <i>Journal of Modern Optics</i> , 0, , 1-12.	0.6	0
2529	OAM Modes in Optical Fibers for Next Generation Space Division Multiplexing (SDM) Systems. , 0, , .		4
2530	Photonic integrated chip enabling orbital angular momentum multiplexing for quantum communication. <i>Nanophotonics</i> , 2022, 11, 821-827.	2.9	22
2531	Particle-like topologies in light. <i>Nature Communications</i> , 2021, 12, 6785.	5.8	67
2532	Generation, Transmission and Application of Orbital Angular Momentum in Optical Fiber: A Review. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	24
2535	Spin-Orbit Mapping of Light. <i>Physical Review Letters</i> , 2021, 127, 233901.	2.9	19
2536	Naturally occurring van der Waals heterostructure lengenbachite with strong in-plane structural and optical anisotropy. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	7
2537	Polarization-controlled generation and superposition of surface plasmon polariton vortices with a plasmonic metasurface. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	7
2538	Quantum hashing via single-photon states with orbital angular momentum. <i>Physical Review A</i> , 2021, 104, .	1.0	4

#	ARTICLE	IF	CITATIONS
2539	Tunable Optical Vortex from a Nanogroove-Structured Optofluidic Microlaser. Nano Letters, 2022, 22, 1425-1432.	4.5	8
2542	High energy switchable pulsed High-order Mode beams in a mode-locking Raman all-fiber laser with high efficiency. Optics Express, 2021, 29, 40538.	1.7	5
2543	Extreme-ultraviolet vector-vortex beams from high harmonic generation. Optica, 2022, 9, 71.	4.8	25
2544	Engineering photonic angular momentum with structured light: a review. Advanced Photonics, 2021, 3, .	6.2	80
2545	The generation of femtosecond optical vortex beams with megawatt powers directly from a fiber based Mamyshev oscillator. Nanophotonics, 2022, 11, 847-854.	2.9	16
2546	Recognition of orbital-angular-momentum modes with different topological charges and their unknown superpositions via machine learning. Physical Review A, 2021, 104, .	1.0	12
2547	The Propagation of Vortex Beams in Random Mediums. , 0, , .		1
2548	High performance reflective microwave split-square-ring metasurface vortex beam generator. Optics Communications, 2022, 507, 127631.	1.0	7
2549	Influence of Source Parameters and Non-Kolmogorov Turbulence on Evolution Properties of Radial Phased-Locked Partially Coherent Vortex Beam Array. Photonics, 2021, 8, 512.	0.9	3
2550	Design of Cylindrical Conformal Transmitted Metasurface for Orbital Angular Momentum Vortex Wave Generation. Chinese Physics B, 0, , .	0.7	1
2552	Optical trapping force on two types of particles with a focused partially coherent Lommel-Gaussian beam. Results in Physics, 2022, 32, 105076.	2.0	1
2553	Atmospheric Turbulence Compensation for OAM-Carrying Vortex Waves Based on Convolutional Neural Network. Advances in Space Research, 2021, 69, 1949-1949.	1.2	7
2554	Spatial mode control based on photonic lanterns. Optics Express, 2021, 29, 41788.	1.7	13
2555	Vortex beam generation by means of control of the piston shift of a fiber array using a phase forming DOE in active feedback loop. , 2021, , .		1
2556	Utilizing accelerating plane-wave beams for bendable light communications. Optics Express, 2021, 29, 41911.	1.7	1
2557	Highly Dispersive Germanium-Doped Coupled Ring-Core Fiber for Vortex Modes. Journal of Lightwave Technology, 2022, 40, 2144-2150.	2.7	6
2558	Helical Bragg Gratings: Experimental Verification of Light Orbital Angular Momentum Conversion. Journal of Lightwave Technology, 2022, 40, 2481-2488.	2.7	6
2559	Demonstration of Recovering Orbital-Angular-Momentum Multiplexed Channels Using a Tunable, Broadband Pixel-Array-Based Photonic-Integrated-Circuit Receiver. Journal of Lightwave Technology, 2022, 40, 1346-1352.	2.7	4

#	ARTICLE	IF	CITATIONS
2560	Retrofitting FSO Systems in Existing RF Infrastructure: A Non-Zero-Sum Game Technology. IEEE Open Journal of the Communications Society, 2021, 2, 2597-2615.	4.4	14
2561	Free-Space Optical Communication Systems for B5G/6G Networks. , 2021, , .		6
2562	Narrowband Terahertz Emission With Tunable Orbital Angular Momentum by Vortex Laser-Beam Interaction. IEEE Photonics Journal, 2022, 14, 1-8.	1.0	1
2563	Mode Conversion and Transfer of Orbital Angular Momentum Between Hermite-Gaussian and Laguerre-Gaussian Beams. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	5
2564	Simulating electrical fields in the orbital angular momentum space of light. Optics Express, 2022, 30, 972.	1.7	1
2565	OAM beam generation in space and its applications: A review. Optics and Lasers in Engineering, 2022, 151, 106923.	2.0	39
2566	Tunable topological charge vortex microlaser with ultrafast controllability. , 2020, , .		0
2567	Dual-Band Orbital Angular Momentum Beam Generator base on the 2-Bit Reflective Metasurface. , 2020, , .		1
2568	Algebra of light: multiplication and division of orbital angular momentum. , 2020, , .		0
2569	Dependence of Beamforming on the Excitation of Orbital Angular Momentum Modes. IEEE Transactions on Antennas and Propagation, 2020, 68, 7039-7045.	3.1	7
2570	Atmosferik TÃ¼rban Altında Orbital AÃ§isil Momentum Tabanlı HaberleÅme Sistemleri Orbital Angular Momentum Based Communication Systems Under Atmospheric Turbulence. , 2020, , .		0
2571	An Authentication Scheme For Free-Space Laser Communication Using "Fingerprint-Matching", 2020, , .		0
2572	Underwater acoustic positioning using orbital angular momentum vortex beams. , 2020, , .		0
2573	Metasurfaces for Generating Focusing Vortex Beam. , 2020, , .		1
2574	Dual Polarized OAM Multibeam Metasurface for Terahertz Applications. , 2020, , .		1
2575	The Radial Phase Modulation of Concentric Uniform Circular Array to Alleviate the Diffusion of OAM Beams. , 2021, , .		1
2576	The Coherence-Orbital Angular Momentum Representation of Partially Coherent Beams. , 2021, , .		0
2577	Deep Learning Assisted Classification of Noisy Laguerre Gaussian Modes. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
2578	Improved Directivity of an OAM Antenna by a Fabry-Perot Cavity: An Experimental Study. Open Journal of Antennas and Propagation, 2021, 09, 65-73.	0.1	1
2579	Experimental Demonstration of Ring Airy Vortex Beam Free-Space Data Transmission under Limited-Size Receiving Aperture and Atmosphere Turbulence. , 2021, , .		0
2580	A modified phase diversity algorithm-based adaptive compensation for orbital angular momentum wireless optical communication. , 2021, , .		0
2581	Orbital Angular Momentum Multiplexer Based on the Inverse Designed Multi-plane Light Conversion. , 2021, , .		1
2582	Experimental Demonstration of Free-Space Orbital-Angular-Momentum Mode-Group Multiplexing under Atmosphere Turbulence. , 2021, , .		1
2583	Modeling the propagation of elliptic Laguerre-Gaussian beams. , 2021, , .		0
2584	Instability of the OAM of higher-order optical vortices. , 2021, , .		0
2585	Design and Performance Evaluation of OAM-DM-PON for High Capacity Communication. , 2021, , .		0
2586	Inversion of Orbital-Angular-Momentum Light Field Based on a Diffuser. , 2021, , .		1
2587	Adaptive demodulation by deep-learning-based identification of fractional orbital angular momentum modes with structural distortion due to atmospheric turbulence. Scientific Reports, 2021, 11, 23505.	1.6	6
2588	Adjusted EfficientNet for the diagnostic of orbital angular momentum spectrum. Optics Letters, 2022, 47, 1419.	1.7	16
2589	Enhancing the Information Capacity With Modulated Orbital Angular Momentum Holography. IEEE Photonics Journal, 2022, 14, 1-5.	1.0	6
2590	Nano-Displacement Measurement System Using a Modified Orbital Angular Momentum Interferometer. IEEE Journal of Quantum Electronics, 2022, 58, 1-5.	1.0	15
2591	Efficient sorting for an orbital angular momentum multiplexing communication link based on a digital micromirror device and a diffuser. Optics Express, 2022, 30, 6203.	1.7	3
2592	Free-Space Transmission and Detection of Various Polarized Near-IR Beams Using Standard Communication Systems with Embedded Singular Phase Structures. Sensors, 2022, 22, 890.	2.1	3
2593	Design framework for polarization-insensitive multifunctional achromatic metalenses. Nanophotonics, 2022, 11, 583-591.	2.9	11
2594	Wireless Communication Utilizing Berry's Phase Carriers. Laser and Photonics Reviews, 2022, 16, .	4.4	2
2595	Scattering of partially coherent vortex beam by rough surface in atmospheric turbulence. Optics Express, 2022, 30, 4165.	1.7	6

#	ARTICLE	IF	CITATIONS
2597	Suspended Metasurface for Broadband High-Efficiency Vortex Beam Generation. <i>Materials</i> , 2022, 15, 707.	1.3	8
2598	Multi-tasking geometric phase element array based self-referenced vortex interferometer for three-dimensional topography. <i>Optics Express</i> , 2022, 30, 14661.	1.7	2
2599	Wavelength-Tunable Vortex Beam Emitter Based on Silicon Micro-Ring with PN Depletion Diode. <i>Sensors</i> , 2022, 22, 929.	2.1	6
2600	Interconversion between OAM and SAM in five-photon mixing process in medium with the fourth-order optical susceptibility. <i>Optics Letters</i> , 2022, 47, 1307-1310.	1.7	1
2601	OAM Beams Generation Technology in Optical Fiber: A Review. <i>IEEE Sensors Journal</i> , 2022, 22, 3828-3843.	2.4	17
2602	Investigation on the Formation of Laser Transverse Pattern Possessing Optical Lattices. <i>Frontiers in Physics</i> , 2022, 9, .	1.0	6
2603	Non-resonant waveguiding-spiralizer for generating acoustic orbital angular momentum with arbitrary number of channels. <i>Materials and Design</i> , 2022, 213, 110367.	3.3	1
2604	Coaxial multi-ring optical vortex generation based on compound spiral phase plates. <i>Laser Physics</i> , 2022, 32, 035402.	0.6	5
2605	Evolution properties of vortex beams through strongly nonlocal nonlinear media. <i>Chinese Journal of Physics</i> , 2022, 77, 1419-1430.	2.0	3
2606	Large-Scale Inverse Design of a Planar On-Chip Mode Sorter. <i>ACS Photonics</i> , 2022, 9, 378-382.	3.2	11
2607	Deterministic distribution of orbital angular momentum multiplexed continuous-variable entanglement and quantum steering. <i>Photonics Research</i> , 2022, 10, 777.	3.4	5
2608	Orbital angular momentum deep multiplexing holography via an optical diffractive neural network. <i>Optics Express</i> , 2022, 30, 5569.	1.7	16
2609	Milestones of Wireless Communication Networks and Technology Prospect of Next Generation (6G). <i>Computers, Materials and Continua</i> , 2022, 71, 4803-4818.	1.5	7
2610	Ultra-secure optical encryption based on tightly focused perfect optical vortex beams. <i>Nanophotonics</i> , 2022, 11, 1063-1070.	2.9	27
2611	On-Chip Optical Vortex Generation and Topological Charge Control by Methods of Wave Vector Manipulation. <i>IEEE Photonics Journal</i> , 2022, 14, 1-7.	1.0	0
2612	Exploitation of geometric and propagation phases for spin-dependent rational-multiple complete phase modulation using dielectric metasurfaces. <i>Photonics Research</i> , 2022, 10, 877.	3.4	10
2613	Demonstration of Turbulence Resiliency in a Mode-, Polarization-, and Wavelength-Multiplexed Free-Space Optical Link Using Pilot-Assisted Optoelectronic Beam Mixing. <i>Journal of Lightwave Technology</i> , 2022, 40, 588-596.	2.7	14
2614	Image information transfer with petal-like beam lattices encoding/decoding. <i>Optics Communications</i> , 2022, 510, 127931.	1.0	5

#	ARTICLE	IF	CITATIONS
2615	A Theoretical Description of Integrated OAM Beam Emitters Using Conical Wave Model. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	1
2616	Millimeter-Wave and Terahertz OAM Discrete-Lens Antennas for 5G and Beyond. IEEE Communications Magazine, 2022, 60, 34-39.	4.9	11
2617	Performance Evaluation of Orbital Angular Momentum Mode Multiplexing Systems Impaired by Phase Noise. , 2022, , .		0
2618	A Quadri-dimensional Manipulable Laser with an Intrinsic Chiral Photoswitch. Advanced Materials, 2022, 34, e2110170.	11.1	20
2619	Deep Learning-Enabled Orbital Angular Momentum-Based Information Encryption Transmission. ACS Photonics, 2022, 9, 820-829.	3.2	32
2620	A design of dual guided modes ring-based photonic crystal fiber supporting 170+62 OAM modes with large effective mode field area. Applied Physics B: Lasers and Optics, 2022, 128, 1.	1.1	5
2621	Intracavity spherical aberration for selective generation of single-transverse-mode Laguerre-Gaussian output with order up to 95. Photonix, 2022, 3, .	5.5	14
2622	Fermionic Chern insulator from twisted light with linear polarization. Physical Review B, 2022, 105, .	1.1	8
2623	Active quasi-BIC optical vortex generators for ultrafast switching. New Journal of Physics, 2022, 24, 033002.	1.2	8
2624	Photonic matrix multiplication lights up photonic accelerator and beyond. Light: Science and Applications, 2022, 11, 30.	7.7	167
2625	Reconstruction of three-dimensional objects in layered composite structures from multimode orbital angular momentum. Physical Review E, 2022, 105, 025302.	0.8	2
2626	Off-axis pumped Tm:YLF vortex laser with continuously tunable wavelength. Infrared Physics and Technology, 2022, 122, 104064.	1.3	4
2627	Influence of Atmospheric Turbulence on States of Vortex Beams Carrying Orbital Angular Momentum. , 2021, , .		0
2628	Effect of intravalley and intervalley electron-hole exchange on the nonlinear optical response of monolayer MoSe_2 . Physical Review B, 2021, 104, .	1.1	5
2629	Integrated Waveguide Grating Vortex Laser Generator Directly Written in Nd:YAG Crystal. IEEE Photonics Technology Letters, 2022, 34, 409-412.	1.3	4
2630	Pattern Synthesis of Spatial Eigenmodes Exploiting Spherical Conformal Array. IEICE Transactions on Communications, 2022, E105.B, 1231-1239.	0.4	0
2631	Low Sidelobe Orbital Angular Momentum Vortex Beams Based on Modified Bayliss Synthesis Method for Circular Array. IEEE Antennas and Wireless Propagation Letters, 2022, 21, 968-972.	2.4	10
2632	Generative Adversarial Network Based Adaptive Optics Scheme for Vortex Beam in Oceanic Turbulence. Journal of Lightwave Technology, 2022, 40, 4129-4135.	2.7	6

#	ARTICLE	IF	CITATIONS
2633	Vortex Beam Wave Front Correction Without Using a Wave Front Detector. , 2022, , 233-271.		0
2634	Multi-Ring-Air-Core Fiber Supporting Numerous Radially Fundamental OAM Modes. Journal of Lightwave Technology, 2022, 40, 4420-4428.	2.7	8
2635	Spatiotemporal optical vortices with arbitrary orbital angular momentum orientation by astigmatic mode converters. Nanophotonics, 2022, 11, 745-752.	2.9	15
2636	Model Construction, Theoretical Analysis, and Miniaturized Implementation of High-Order Deflected Multivortex Beams With Uniform Elliptical Array. IEEE Transactions on Antennas and Propagation, 2022, 70, 7234-7239.	3.1	6
2637	Selective Generation of Laser Transverse Modes by Gain Regulation With a Digital Micromirror Device. IEEE Photonics Technology Letters, 2022, 34, 420-423.	1.3	3
2638	Channel Modeling for Orbital Angular Momentum Based Underwater Wireless Optical Systems. IEEE Transactions on Vehicular Technology, 2022, 71, 5880-5895.	3.9	20
2639	æ•£å°„æŕjæ—çå…%è½/2“é“èš’åš“é†çš„æ™èèf½è¬åˆ«. Scientia Sinica: Physica, Mechanica Et Astronomica, 2022, ,0.2		0
2640	Fractal, diffraction-encoded space-division multiplexing for FSO with misalignment-robust, roaming transceivers. Scientific Reports, 2022, 12, 2777.	1.6	2
2641	Generation and conversion of a dual-band Laguerre-Gaussian beam with different OAM based on a bilayer metasurface. Optical Materials Express, 2022, 12, 1163.	1.6	7
2642	Spatiotemporal Differentiators Generating Optical Vortices with Transverse Orbital Angular Momentum and Detecting Sharp Change of Pulse Envelope. Laser and Photonics Reviews, 2022, 16, .	4.4	35
2643	Macroscopic phase-matching mechanism for orbital angular momentum spectra of high-order harmonics by mixing two Laguerre-Gaussian vortex modes. Physical Review A, 2022, 105, .	1.0	5
2644	Magnetically controllable holographic encryption based on a magneto-optical metasurface. Optics Express, 2022, 30, 8366.	1.7	3
2645	Dynamic millimeter-wave OAM beam generation through programmable metasurface. Nanophotonics, 2022, 11, 1389-1399.	2.9	37
2646	Focus shaping by tightly focusing locally linear polarized vortex beams with Pancharatnamâ€“Berry tailored. Laser Physics, 2022, 32, 035403.	0.6	0
2647	Accurately quantifying the superposition state of two different Laguerreâ€“Gaussian modes with single intensity distribution measurement. Quantum Information Processing, 2022, 21, 1.	1.0	1
2648	Eâ€“Band Metasurfaceâ€“Based Orbital Angular Momentum Multiplexing and Demultiplexing. Laser and Photonics Reviews, 2022, 16, .	4.4	12
2649	Improvement of angular rotation measurement resolution and sensitivity based on an SU(1,1) interferometer with intensity sum detection. Journal of Physics Communications, 2022, 6, 035004.	0.5	1
2650	Propagation dynamics of Laguerreâ€“Gaussian beams in the fractional SchrÃ¶dinger equation with noise disturbance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 736.	0.8	4

#	ARTICLE	IF	CITATIONS
2651	Learning-enabled recovering scattered data from twisted light transmitted through a long standard multimode fiber. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	14
2652	Angular multiplexation of partial helical phase modes in orbital angular momentum holography. <i>Optics Express</i> , 2022, 30, 11110.	1.7	21
2653	Optical Vector Vortex Generation by Spherulites with Cylindrical Anisotropy. <i>Nano Letters</i> , 2022, 22, 2444-2449.	4.5	5
2654	Asymmetric Generation of Acoustic Vortex Using Dual-Layer Metasurfaces. <i>Physical Review Letters</i> , 2022, 128, 104501.	2.9	33
2655	Arbitrary superposition of plasmonic orbital angular momentum states with nanostructures. <i>Optics Letters</i> , 2022, 47, 2032.	1.7	5
2656	Multi-Orbital-Angular-Momentum-Mode Vortex Wave Multiplexing and Demultiplexing with Shared-Aperture Reflective Metasurfaces. <i>Physical Review Applied</i> , 2022, 17, .	1.5	21
2657	Transmission characteristics of terahertz Bessel vortex beams through a multi-layered anisotropic magnetized plasma slab. <i>Plasma Science and Technology</i> , 2022, 24, 035004.	0.7	1
2658	Third-order orbital angular momentum pulse generation from a passively Q-switched fiber laser. <i>Optics Express</i> , 2022, 30, 12605.	1.7	3
2659	Quantum coherence of an orbital angular momentum multiplexed continuous-variable entangled state. , 2022, 1, 697.		2
2660	High-speed spatial light modulation based on photon dimension mapping assisted by an integrated mode multiplexer. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	2
2661	Identification of Diffracted Vortex Beams at Different Propagation Distances Using Deep Learning. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	3
2662	Recognizing the orbital angular momentum (OAM) of vortex beams from speckle patterns. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, .	2.0	15
2663	Bessel Terahertz Pulses from Superluminal Laser Plasma Filaments. <i>Ultrafast Science</i> , 2022, 2022, .	5.8	29
2664	Advances on Solid-State Vortex Laser. <i>Photonics</i> , 2022, 9, 215.	0.9	8
2665	Thermalization of Light's Orbital Angular Momentum in Nonlinear Multimode Waveguide Systems. <i>Physical Review Letters</i> , 2022, 128, 123901.	2.9	12
2666	Detecting cylindrical vector beams with an on-chip plasmonic spin-Hall metalens. <i>Optics Express</i> , 2022, 30, 10758.	1.7	3
2667	Selective excitation of optical vortex modes with specific charge numbers in band-tuned topological waveguides. <i>Optics Letters</i> , 2022, 47, 2190.	1.7	3
2668	Orbital angular momentum mode sorting based on a hybrid radial-angular hybrid lens. <i>Optics Express</i> , 2022, 30, 9703.	1.7	2

#	ARTICLE	IF	CITATIONS
2669	Mitigating orbital angular momentum crosstalk in an optical communication uplink channel using cylindrical vector beams. <i>Waves in Random and Complex Media</i> , 0, , 1-12.	1.6	3
2670	Algorithmic decoding of dense OAM signal constellations for optical communications in turbulence. <i>Optics Express</i> , 2022, 30, 13540.	1.7	9
2671	Two-dimensional electromagnetically induced phase grating via composite vortex light. <i>Physical Review A</i> , 2022, 105, .	1.0	35
2672	Symbol division multiplexing in optical fiber communication systems. <i>Optics Express</i> , 2022, 30, 14998.	1.7	4
2673	120 km low-loss propagating OAM beams enabled by OAM-mode group multiplexing and a ring-core fiber. <i>Optics Communications</i> , 2022, 516, 128264.	1.0	6
2674	Efficient high-charge Laguerre-Gaussian mode conversion by using a periscopic axicon mirror. <i>Optics Express</i> , 2022, 30, 12952.	1.7	0
2675	Towards fine recognition of orbital angular momentum modes through smoke. <i>Optics Express</i> , 2022, 30, 15172.	1.7	3
2676	Balanced-ternary-inspired reconfigurable vortex beams using cascaded metasurfaces. <i>Nanophotonics</i> , 2022, 11, 2369-2379.	2.9	14
2677	Smile face array: Generating oblique incident and front output vortex beam for both TE and TM waves. <i>IET Microwaves, Antennas and Propagation</i> , 0, , .	0.7	0
2678	Speckle-based deep learning approach for classification of orbital angular momentum modes. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2022, 39, 759.	0.8	16
2679	Measuring high-order multiple vortex beams with fork-shaped grating. <i>Optik</i> , 2022, 257, 168742.	1.4	6
2680	High-dimensional coding/decoding information with braiding period in free-space optical communication link. <i>Optik</i> , 2022, 258, 168828.	1.4	3
2681	Propagation properties of the superimposed chirped Bessel-Gaussian vortex beams in strongly nonlocal nonlinear medium. <i>Optics Communications</i> , 2022, 516, 128238.	1.0	5
2682	All-fiber SWAP-CNOT gate for optical vortices. <i>Computer Optics</i> , 2021, 45, .	1.3	6
2683	The Comparison of Laser Radiation Focusing by Diffractive Axicons and Annular Gratings with Variable Height Using High-performance Computer Systems. , 2021, , .		4
2684	Tailoring Optical Vortical Dichroism with Stereometamaterials. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	8
2686	Parabolic Reflector-Based Mode Multiplexing Architecture for Next Generation Wireless Backhaul Links. , 2021, , .		1
2687	Probability property of orbital angular momentum distortion in turbulence. <i>Optics Express</i> , 2021, 29, 44157.	1.7	4

#	ARTICLE	IF	CITATIONS
2688	Plasmonic metasurfaces for far-and near-field orbital angular momentum manipulation. , 2021, , .		0
2689	Approaching the Fundamental Limit of Orbital-Angular-Momentum Multiplexing Through a Hologram Metasurface. Physical Review Applied, 2021, 16, .	1.5	15
2690	Multiplexed Generation of Generalized Vortex Beams with Onâ€Demand Intensity Profiles Based on Metasurfaces. Laser and Photonics Reviews, 2022, 16, .	4.4	25
2691	Measurement of Photonic Topological Charge Using a Generalized Ring Pearcey Phase. Annalen Der Physik, 2022, 534, .	0.9	3
2692	Review on fractional vortex beam. Nanophotonics, 2022, 11, 241-273.	2.9	76
2693	Orbital angular momentum and beyond in free-space optical communications. Nanophotonics, 2022, 11, 645-680.	2.9	105
2694	Focal beam structuring by triple mixing of optical vortex lattices. Optical and Quantum Electronics, 2022, 54, 1.	1.5	4
2695	Generation of optical vortices using the metasurface combining dynamic and geometric phases. , 2021, , .		0
2696	Deep learning assisted OAM modes demultiplexing. , 2021, , .		3
2697	Designing Reflective Metasurfaces by Exploiting Composite Vortex Theory. , 2021, , .		0
2698	Generation of linearly polarized modes using a digital micromirror device and phase optimization. Computer Optics, 2022, 46, .	1.3	2
2700	Single-focus phase singularity generated by spiral zone plate with quasi-random distributed quantum dots. Journal Physics D: Applied Physics, 0, , .	1.3	2
2701	Production of orbital angular momentum states of optical vortex beams using a vortex half-wave retarder with double-pass configuration. Scientific Reports, 2022, 12, 6061.	1.6	7
2702	High-resolution optical orbital angular momentum sorter based on Archimedean spiral mapping. Optics Express, 2022, 30, 16330.	1.7	5
2703	Orbital angular momentum underwater wireless optical communication system based on convolutional neural network. Journal of Optics (United Kingdom), 2022, 24, 065701.	1.0	2
2704	Highly efficient detection of near-infrared optical vortex modes with frequency upconversion. Optics Letters, 2022, 47, 2474.	1.7	2
2705	Design considerations and performance analysis of a fiber laser array system for structuring orbital angular momentum beams: a simulation study. Optics Express, 2022, 30, 15279.	1.7	7
2706	Vortices nucleation by inherent fluctuations in nematic liquid crystal cells. Nonlinear Dynamics, 2022, 108, 3209-3218.	2.7	4

#	ARTICLE	IF	CITATIONS
2707	Multisector binary phase plates on fused silica for generation of optical vortex beams superposition: Fabrication, characterization, and applications. <i>Optics and Laser Technology</i> , 2022, 152, 108161.	2.2	1
2708	THz Integrated Circuit with a Pixel Array to Multiplex Two 10-Gbit/s QPSK Channels Each on a Different OAM Beam for Mode-Division-Multiplexing. , 2022, , .		3
2709	Phase regulation of lightwave transmission in inhomogeneous atmospheric medium using plane acoustic field. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022, 71, 164302.	0.2	2
2710	Demonstration of an Air-Water Communication Link Through Dynamic Aerosol and Water Curvature when Considering the 2-D Modal Coupling of a Spatially Structured Beam. , 2022, , .		1
2711	Experimental Demonstration of Adaptive-Optics-Based Turbulence Mitigation in a Mode-Multiplexed Free-Space Optical Link by Using both Radial and Azimuthal Spatial Indices. , 2022, , .		3
2712	Feasibility Study of Quasi-Optical MIMO Antennas for Radiative Near-Field Links. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 7073-7083.	3.1	3
2713	All-Optical Cross-Connection of Cylindrical Vector Beam Multiplexing Channels. <i>Journal of Lightwave Technology</i> , 2022, 40, 5070-5076.	2.7	1
2714	Mitigating Crosstalk of Vortex Beam Within an OAM-Mode Group Over an OAM Fiber by Reversing Transmission Matrix. <i>IEEE Journal of Quantum Electronics</i> , 2022, 58, 1-7.	1.0	0
2715	Caustics and Wavefront of Swallowtail-Gauss Catastrophe Beams. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2716	Caustics and Wavefront of Swallowtail-Gauss Catastrophe Beams. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
2717	Tunable Bessel Beam Shaping for Robust Atmospheric Optical Communication. <i>Journal of Lightwave Technology</i> , 2022, 40, 5097-5106.	2.7	7
2718	Space-time wave packets. <i>Advances in Optics and Photonics</i> , 2022, 14, 455.	12.1	52
2719	Simultaneous Detection of Spin and Orbital Angular Momentum of Light through Scattering from a Single Silver Nanowire. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	4
2720	Geometric metasurface for polarization synthesis and multidimensional multiplexing of terahertz converged vortices. <i>Photonics Research</i> , 2022, 10, 1517.	3.4	33
2721	Neural network-based surrogate model for inverse design of metasurfaces. <i>Photonics Research</i> , 2022, 10, 1462.	3.4	8
2722	Spin-orbit periodic conversion in a gradient-index fiber. <i>Optics Express</i> , 2022, 30, 16432.	1.7	7
2723	Detection of the orbital angular momentum state of light using sinusoidally shaped phase grating. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
2724	Simple-Diffraction-Based Deep Learning to Reconstruct a High-Dimensional Orbital-Angular-Momentum Spectrum Via Single-Shot Measurement. <i>Physical Review Applied</i> , 2022, 17, .	1.5	6

#	ARTICLE	IF	CITATIONS
2725	Coherenceâ€™orbital angular momentum matrix of Schell-model sources. Optics Letters, 2022, 47, 2826.	1.7	7
2726	Spatioâ€™temporal evolution dynamics of ultrashort Laguerreâ€™Gauss vortices in a dispersive and nonlinear medium. Journal of Optics (United Kingdom), 2022, 24, 075501.	1.0	4
2727	Nonlinear rotation of spin-orbit coupled states in hollow ring-core fibers. Optics Express, 2022, 30, 18481.	1.7	3
2728	Beam Manipulations With Compact Planar Dielectric Pancharatnamâ€™Berry Phase Devices. Frontiers in Physics, 2022, 10, .	1.0	1
2729	Up-conversion detection of mid-infrared light carrying orbital angular momentum. Chinese Physics B, 2022, 31, 104210.	0.7	4
2730	Experimental realization of tunable finite square optical arrays. Optics and Laser Technology, 2022, 153, 108220.	2.2	2
2731	Performance analysis of multi-user mixed RF and hybrid RF/FSO cooperative systems with buffers based on GC-LDPC codes. , 2021, , .		0
2732	Source coherence-induced control of spatiotemporal coherency vortices. Optics Express, 2022, 30, 19871.	1.7	6
2733	Influence of random media on orbital angular momentum quantum states of optical vortex beams. Physical Review A, 2022, 105, .	1.0	8
2734	Quantifying the quality of optical vortices by evaluating their intensity distributions. Applied Optics, 2022, 61, 5011.	0.9	3
2735	Differentiated Transmittance of Vortex Beams in Helical Polymer Media. Journal Physics D: Applied Physics, 0, , .	1.3	0
2736	Quantum coherence of thermal biphoton orbital angular momentum state and its distribution in non-Kolmogorov atmospheric turbulence. Optics Express, 2022, 30, 20185.	1.7	1
2737	Divergence-degenerate spatial multiplexing towards future ultrahigh capacity, low error-rate optical communications. Light: Science and Applications, 2022, 11, 144.	7.7	45
2738	Generation and Manipulation of Optical Ferris Wheel by Nested Spiral-Array Plates. IEEE Photonics Journal, 2022, 14, 1-5.	1.0	3
2739	Generation of twisted magnons via spin-to-orbital angular momentum conversion. Physical Review B, 2022, 105, .	1.1	2
2740	Perfect vortex beam with polarization-rotated functionality based on single-layer geometric-phase metasurface. Optics Express, 2022, 30, 21808.	1.7	7
2741	Wavefront Reconstruction of Vortex Beam Propagation in Atmospheric Turbulence Based on Deep Learning. SSRN Electronic Journal, 0, , .	0.4	0
2742	Generation and Detection of Optical Vortices with Multiple Cascaded Spiral Phase Plates. Photonics, 2022, 9, 354.	0.9	4

#	ARTICLE	IF	CITATIONS
2743	Data transmission with up to 100 orbital angular momentum modes via commercial multi-mode fiber and parallel neural networks. <i>Optics Express</i> , 2022, 30, 23149.	1.7	9
2744	Effects of beam deviation on the mode purity of a vortex beam. , 0, , .		0
2745	Generation of integer and fractional perfect vortex beams using all-dielectric geometrical phase metasurfaces. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	13
2746	Optomechanically Induced Transparency in Double-Laguerre-Gaussian-Cavity with Atomic Ensemble. <i>International Journal of Theoretical Physics</i> , 2022, 61, .	0.5	1
2747	Broadband and high efficiency terahertz metasurfaces for anomalous refraction and vortex beam generation. <i>Chinese Physics B</i> , 2022, 31, 108701.	0.7	2
2748	Spinâ€Decoupled Transflective Spatial Light Modulations Enabled by a Piecewiseâ€Twisted Anisotropic Monolayer. <i>Advanced Science</i> , 2022, 9, .	5.6	17
2749	Diffraction deep neural network based adaptive optics scheme for vortex beam in oceanic turbulence. <i>Optics Express</i> , 2022, 30, 23305.	1.7	16
2750	Interactions between Plasmonic Nanoantennas and Vortex Beams. <i>Nano Letters</i> , 2022, 22, 5015-5021.	4.5	3
2751	Terahertz Transmissionâ€Type Metasurface for the Linear and Circular Polarization Wavefront Manipulation. <i>Advanced Theory and Simulations</i> , 2022, 5, .	1.3	15
2752	Metamaterial Aperture for Frequency-diverse Dual-mode OAM Beams. , 2022, , .		0
2753	Intrinsic Vortexâ€Antivortex Interaction of Light. <i>Laser and Photonics Reviews</i> , 2022, 16, .	4.4	4
2754	Utilizing multiplexing of structured THz beams carrying orbital-angular-momentum for high-capacity communications. <i>Optics Express</i> , 2022, 30, 25418.	1.7	19
2755	Multiple quasi-perfect vector vortex beams with arbitrary 3D position on focus. <i>Applied Optics</i> , 2022, 61, 5926.	0.9	2
2756	Demonstration of turbulence mitigation in a 200-Gbit/s orbital-angular-momentum multiplexed free-space optical link using simple power measurements for determining the modal crosstalk matrix. <i>Optics Letters</i> , 0, , .	1.7	4
2757	Real-time visualisation and optimisation of acoustic waves carrying orbital angular momentum. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 264007.	0.7	1
2758	Supercontinuum Induced by Filamentation of Bessel-Gaussian and Laguerre-Gaussian Beams in Water. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6005.	1.3	4
2759	Roadmap on multimode photonics. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 083001.	1.0	27
2760	Optical orbital angular momentum multiplexing communication via inversely-designed multiphase plane light conversion. <i>Photonics Research</i> , 2022, 10, 1015.	3.4	18

#	ARTICLE	IF	CITATIONS
2761	Thermalization of Orbital Angular Momentum Beams in Multimode Optical Fibers. <i>Physical Review Letters</i> , 2022, 128, .	2.9	29
2762	Compact optically controlling the emission chirality of microlasers in single subwavelength particles supporting quasi-bound states in the continuum. <i>Optics Communications</i> , 2022, 522, 128655.	1.0	1
2763	High-resolution, wavefront-sensing, full-field polarimetry of arbitrary beams using phase retrieval. <i>Optics Express</i> , 0, , .	1.7	1
2764	Improvement of communication quality in Laguerreâ€“Gaussian mode multiplexing through atmospheric turbulence propagation for optical wireless communication. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SK1015.	0.8	0
2765	Spiral phase plasma mirror. <i>Journal of Optics (United Kingdom)</i> , 0, , .	1.0	2
2766	Propagation dynamics of abruptly autofocusing circular Airyprime beam with an optical vortex. <i>Optics and Laser Technology</i> , 2022, 155, 108398.	2.2	19
2767	1.3-Octave Coherent Supercontinuum Generation of OAM Mode in Ring-Core Fiber With All-Normal Dispersion. <i>IEEE Access</i> , 2022, 10, 76990-76997.	2.6	1
2769	Implementation and Evaluation of sub- THz OAM Multiplexing Transmission. , 2022, , .		6
2770	Double-frequency grating shearing interferometer with built-in phase-shifting function for robust multi-level phase retrieval. <i>Scientific Reports</i> , 2022, 12, .	1.6	3
2771	Generation of Elliptical Airy vortex beams based on all-dielectric metasurface. <i>Chinese Physics B</i> , 0, , .	0.7	2
2772	Deterministic generation of large-scale hyperentanglement in three degrees of freedom. , 2022, 1, .		5
2773	Orbital angular momentum comb generation from azimuthal binary phases. , 2022, 1, .		18
2774	Generation of the Anomalous Vortex Beam by Spiral Axicon Implemented on Spatial Light Modulator. <i>Frontiers in Physics</i> , 0, 10, .	1.0	3
2775	Triple Coupled Ringâ€“Core Fiber with Dual Highly Dispersive Windows for Orbital Angular Momentum Mode. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	2
2776	Flexible Image Reconstruction in the Orbital Angular Momentum Holography with Binarized Airy Lens. <i>Photonics</i> , 2022, 9, 460.	0.9	2
2777	Propagation and Focusing Properties of Vortex Beams Based on Light Ray Tracing. <i>Frontiers in Physics</i> , 0, 10, .	1.0	1
2778	Ultra-intense vortex laser generation from a seed laser illuminated axial line-focused spiral zone plate. <i>Optics Express</i> , 2022, 30, 29388.	1.7	1
2779	Orbital angular momentum optical communications enhanced by artificial intelligence. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 094003.	1.0	7

#	ARTICLE	IF	CITATIONS
2780	Tailoring ultra-broadband vector beams via programming the electric field vector of light. Optics Express, 2022, 30, 28506.	1.7	4
2781	Manipulation and Improvement of Autofocusing Properties for Circular Butterfly Beams. Annalen Der Physik, 0, , 2200235.	0.9	1
2782	Orbital angular momentum spectrum of pin-like optical vortex beams in turbulent atmosphere. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2022, 39, 1414.	0.8	3
2783	A photonic quasi-crystal fibre supporting stable transmission of 150 OAM modes with high mode quality and flat dispersion. Journal of Modern Optics, 2022, 69, 887-896.	0.6	3
2784	Frequency Conversion of Optical Vortex Arrays Through Four-Wave Mixing in Hot Atomic Gases. Frontiers in Physics, 0, 10, .	1.0	0
2785	Beam stability improvement of high-power Lissajous modes by an off-axis pumped YVO ₄ /Nd:YVO ₄ laser. , 2022, 1, 1696.		1
2786	Frequency Scanning Dual-Mode Asymmetric Dual-OAM-Wave Generation Base on Broadband PB Metasurface. Micromachines, 2022, 13, 1117.	1.4	4
2787	Orbital angular momentum mode diversity gain in optical communication. Optics Express, 2022, 30, 27482.	1.7	2
2788	The Performance of Orbital Angular Momentum Mode ($ l = 1-3$) Amplification Based on Ring-Core Erbium-Doped Fibers. Photonics, 2022, 9, 491.	0.9	2
2789	Polarization singularities hidden in a deep subwavelength confined electromagnetic field with angular momentum. Optics Express, 0, , .	1.7	2
2790	Absorption-Transmission-Type Multifunctional Coding Metasurface. Journal Physics D: Applied Physics, 0, , .	1.3	4
2791	Rising complexity of the OAM beam structure as a way to a higher data capacity. Light: Science and Applications, 2022, 11, .	7.7	5
2792	Compensating the distorted OAM beams with near zero time delay. Applied Physics Letters, 2022, 121, .	1.5	4
2794	Silicon photonic flat-top WDM (de)multiplexer based on cascaded Mach-Zehnder interferometers for the 2 Åµm wavelength band. Optics Express, 2022, 30, 28232.	1.7	18
2795	Plasmonic vortices: a review. Journal of Optics (United Kingdom), 2022, 24, 084004.	1.0	12
2796	Vortex families generated by Fermat spiral photon sieve. , 2022, , .		0
2797	Topological Charge Measurement of the Mid-Infrared Vortex Beam via Spatially Dependent Four-Wave Mixing in an Asymmetric Semiconductor Double Quantum Well. Frontiers in Physics, 0, 10, .	1.0	3
2798	Photonic Integrated Circuit for Rapidly Tunable Orbital Angular Momentum Generation Using Sb ₂ Se ₃ Ultra-Low-Loss Phase Change Material. Advanced Optical Materials, 2022, 10, .	3.6	5

#	ARTICLE	IF	CITATIONS
2799	Intra-Cavity Astigmatic Mode Converting VECSEL. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	2
2800	Generation of orbital angular momentum light based on mechanically induced long-period fiber gratings using 3D printing technique. Optical Fiber Technology, 2022, 72, 102957.	1.4	1
2801	Numerical analysis of a photonic crystal fiber with elliptical air hole for supporting 80 orbital angular momentum modes. Optical Fiber Technology, 2022, 72, 102986.	1.4	2
2802	Generation of polarization-insensitive perfect vortices by dielectric metasurfaces with diverging or converging axicon phases. Optics and Laser Technology, 2022, 155, 108409.	2.2	7
2803	Generation of ultrashort vortex pulses by spiral array. Optics and Laser Technology, 2022, 155, 108354.	2.2	1
2804	On-Chip Polarization and Frequency Division Demultiplexing for Multidimensional Terahertz Communication. Laser and Photonics Reviews, 2022, 16, .	4.4	6
2805	High-dimensional encryption in optical fibers using spatial modes of light and machine learning. Machine Learning: Science and Technology, 2022, 3, 035006.	2.4	4
2806	Ultra-wideband and high-performance microwave vortex beam generator based on single-layer Panchartnam-Berry metasurface with stacked-arc-shaped meta-atoms. Journal Physics D: Applied Physics, 0, , .	1.3	4
2807	Theoretical study of vortex beam generation based on geometric coordinate transformation. Frontiers in Physics, 0, 10, .	1.0	0
2808	Mutual Weak Quantum Users Key Agreement Protocol Based on Semi-Honest Quantum Server. International Journal of Theoretical Physics, 2022, 61, .	0.5	1
2809	Gaussian laser beam structuring using acousto-optic effect: a parametric characterization. Applied Physics B: Lasers and Optics, 2022, 128, .	1.1	1
2810	Simple ring-structured photonic crystal fiber with low nonlinear coefficients and flat dispersion supporting 166 OAM modes. Optical Engineering, 2022, 61, .	0.5	3
2811	Nonlinear manipulation of orbital angular momentum spectra with second- and third-harmonic generation in a quasi-periodically poled crystal. Applied Physics Letters, 2022, 121, 032202.	1.5	2
2813	Watt-Level 1173 nm Laguerre-Gaussian Mode Generation From a Self-Raman Nd:GdVO ₄ Laser. Journal of Lightwave Technology, 2023, 41, 2087-2093.	2.7	1
2814	60-GHz-band OAM Multiplexing with a RLSA that Simultaneously Generates Three OAM modes. , 2022, , .		1
2815	Conversion of Linear Polarized Light-to-Orbital Angular Momentum with Variable Topological Charges, Using the Surface Plasmons of Elliptical Holes Etched in a Gold Layer. , 2022, , .		0
2816	Generation of single-focus phase singularity by the annulus-quadrangle-element coded binary square spiral zone plates. Science China: Physics, Mechanics and Astronomy, 2022, 65, .	2.0	6
2817	Dancing vortices in a driven nematic liquid crystal cell: Theory and experiment. Physical Review E, 2022, 106, .	0.8	2

#	ARTICLE	IF	CITATIONS
2818	Recognition of high-resolution optical vortex modes with deep residual learning. <i>Physical Review A</i> , 2022, 106, .	1.0	5
2819	Aberration-matched filters for vortex beams transformations. , 2022, , .		0
2820	3D waveguide device for few-mode multi-core fiber optical communications. <i>Photonics Research</i> , 2022, 10, 2677.	3.4	5
2821	Generation of terahertz radiation with fractional or integer OAMs from a fractional-order vortex two-color field. <i>New Journal of Physics</i> , 2022, 24, 083027.	1.2	5
2822	Data transmission under high scattering based on OAM-basis transmission matrix. <i>Optics Letters</i> , 2022, 47, 4580.	1.7	3
2823	Active Control of Interconversion of Spin and Orbital Angular Momentum of Light by a Scattering System. <i>Physical Review Applied</i> , 2022, 18, .	1.5	1
2824	Axion-like particle generation in laser-plasma interaction. <i>Physica Scripta</i> , 2022, 97, 105303.	1.2	1
2825	Heliconical Cholesterics Endows Spatial Phase Modulator with an Electrically Customizable Working Band. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	24
2826	Targetsâ€™ Radial and Tangential Velocities Estimation Based on Vortex Electromagnetic Waves. <i>Remote Sensing</i> , 2022, 14, 3861.	1.8	3
2827	Receiver aperture and multipath effects on power loss and modal crosstalk in a THz wireless link using orbital-angular-momentum multiplexing. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
2828	Generating a multi-mode vortex beam based on spoof surface plasmon polaritons. <i>Optics Letters</i> , 2022, 47, 4459.	1.7	3
2829	Mutual coherence function based topological charge detection in a Gaussian vortex beam optical communication system. <i>Physica Scripta</i> , 2022, 97, 095507.	1.2	5
2830	Optical vortex fields with an arbitrary orbital angular momentum orientation. <i>Optics Letters</i> , 2022, 47, 4568.	1.7	6
2831	Capturing the amplitude and phase profile of the vortex beam based on coherent detection. <i>Frontiers in Physics</i> , 0, 10, .	1.0	2
2832	Atmospheric turbulence forecasting using two-stage variational mode decomposition and autoregression towards free-space optical data-transmission link. <i>Frontiers in Physics</i> , 0, 10, .	1.0	3
2833	Multiwavelength achromatic super-resolution focusing via a metasurface-empowered controlled generation of focused cylindrically polarized vortex beams. <i>Optics Express</i> , 2022, 30, 30811.	1.7	5
2834	Simulating Multi-level Diffractive Optical Elements on a Spatial Light Modulator. <i>Applied Optics</i> , 0, , .	0.9	1
2835	Forty-five terawatt vortex ultrashort laser pulses from a chirped-pulse amplification system. <i>High Power Laser Science and Engineering</i> , 2022, 10, .	2.0	9

#	ARTICLE	IF	CITATIONS
2836	Modified Gerchberg-Saxton algorithm-based probe-free wavefront distortion compensation of an OAM beam. <i>Optik</i> , 2022, , 169816.	1.4	3
2837	Terahertz Near-Field Vortex Beams with Variable Intensity Profiles Based on Geometric Metasurfaces. <i>Advanced Photonics Research</i> , 0, , 2200151.	1.7	1
2838	Nonreciprocity with Structured Light Using Optical Pumping in Hot Atoms. <i>Physical Review Applied</i> , 2022, 18, .	1.5	6
2839	Multiplexed vortex state array toward high-dimensional data multicasting. <i>Optics Express</i> , 2022, 30, 34053.	1.7	12
2840	Interplay between optical vortices and condensed matter. <i>Reviews of Modern Physics</i> , 2022, 94, .	16.4	22
2841	Analysis of electromagnetic scattering from typical targets for orbital-angular-momentum waves: Theoretical model. <i>IET Microwaves, Antennas and Propagation</i> , 2022, 16, 699-708.	0.7	3
2842	Intense high-harmonic optical vortices generated from a microplasma waveguide irradiated by a circularly polarized laser pulse. <i>Physical Review Research</i> , 2022, 4, .	1.3	1
2843	Multiwavelength high-order optical vortex detection and demultiplexing coding using a metasurface. , 2022, 1, .		13
2844	Enhanced spin-orbit coupling in an epsilon-near-zero material. <i>Optica</i> , 2022, 9, 1094.	4.8	4
2845	Research on 946 nm LG ₀₁ mode laser considering thermal effect. <i>Laser Physics</i> , 2022, 32, 095801.	0.6	3
2846	Femtosecond infrared optical vortex lasers based on optical parametric amplification. <i>High Power Laser Science and Engineering</i> , 2022, 10, .	2.0	3
2847	Lower bound of constant product 0.2π between the pair of periodically angular uncertainties in a set of numerous singular light beams and its utility. <i>Physics Open</i> , 2022, 12, 100115.	0.7	0
2848	Generation of mid-infrared vortex beams by 3-D printed polymer phase plates. <i>Optics and Laser Technology</i> , 2022, 156, 108509.	2.2	4
2849	Foveated imaging through scattering medium with LG-basis transmission matrix. <i>Optics and Lasers in Engineering</i> , 2022, 159, 107199.	2.0	2
2850	A novel nested three-ring-core photonic crystal fiber for OAM transmission. <i>Optik</i> , 2022, 270, 169981.	1.4	3
2851	Caustics and wavefront of Swallowtail-Gauss catastrophe beams. <i>Results in Physics</i> , 2022, 42, 105991.	2.0	3
2852	Generation of off-axis phased Gaussian optical array along arbitrary curvilinear arrangement. <i>Optics Communications</i> , 2023, 527, 128967.	1.0	6
2853	How convolutional-neural-network detects optical vortex scattering fields. <i>Optics and Lasers in Engineering</i> , 2023, 160, 107246.	2.0	1

#	ARTICLE	IF	CITATIONS
2854	Inverse Design of Multi-Layer Foundry-Fabricated Optical Vortex Beam Emitters. , 2022, , .		0
2855	Dual Concentric-Ring-Core Fiber With Four Zero-Dispersion Wavelengths for Beyond Three-Octave OAM Supercontinuum Generation. Journal of Lightwave Technology, 2023, 41, 2138-2144.	2.7	0
2856	Orbital Angular Momentum Modes (De)multiplexer without Mode Conversion based on Strongly Guiding Coupled Ring-core Fibers. Journal of Lightwave Technology, 2022, , 1-11.	2.7	1
2857	Orbital Angular Momentum Based Sensing and Their Applications: A Review. Journal of Lightwave Technology, 2023, 41, 2007-2016.	2.7	6
2858	Generation of Megawatt Optical Vortex Pulses Directly from a Few-mode Fiber Based Mamyshev Oscillator. , 2022, , .		0
2859	Experimental Demonstration of Generating a 10-Gbit/s QPSK Laguerre-Gaussian Beam using Integrated Circular Antenna Arrays to Tune Both Spatial Indices. , 2022, , .		3
2860	Generation of OAM beam with arbitrary trajectory using a single phase-only element. , 2022, , .		0
2861	Topological Bound Modes With Orbital Angular Momentum in Optical Waveguide Arrays. Journal of Lightwave Technology, 2023, 41, 2205-2211.	2.7	6
2862	Optical Transmission Technologies. Springer Series in Optical Sciences, 2022, , 257-368.	0.5	0
2863	Investigation on Orbital Angular Momentum Mode-Based Beam Shaping for Indoor Optical Wireless Communications. Journal of Lightwave Technology, 2022, 40, 7738-7745.	2.7	3
2864	Caustics and Wavefront of Swallowtail-Gauss Catastrophe Beams. SSRN Electronic Journal, 0, , .	0.4	0
2865	A THz Integrated Circuit Based on a Pixel Array to Mode Multiplex Two 10-Gbit/s QPSK Channels Each on a Different OAM Beam. Journal of Lightwave Technology, 2023, 41, 1095-1103.	2.7	7
2866	Enhanced Atmospheric Turbulence Resiliency With Successive Interference Cancellation DSP in Mode Division Multiplexing Free-Space Optical Links. Journal of Lightwave Technology, 2022, 40, 7769-7778.	2.7	9
2867	Heterogeneous Optical Network Incorporating Low-Loss Vortex-Mode Fiber and Single-Mode Fibers Seamlessly Connected by All-Fiber Vortex (De)Multiplexer. SSRN Electronic Journal, 0, , .	0.4	0
2868	Propagation of Vortex Symmetric Airy Beam in the Turbulent Link. SSRN Electronic Journal, 0, , .	0.4	0
2869	Mode-selective band-tuned topological waveguide. , 2022, , .		0
2870	Experimental Investigation for the Causes of Orbital-Angular-Momentum Modal Coupling Through a Dynamic Random Turbulent Medium. , 2022, , .		0
2871	Novel Inverse Hyperbolic Tangent Fiber For Next Generation Mode Group & Mode Division Multiplexing systems. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
2872	Turbulence Resilient Free-Space Optical Communication Using Iterative Blind Equalization. , 2022, , .		1
2873	800Gbps Visible Light Communication System Employing WDM and OAM Multiplexing. , 2022, , .		0
2874	Synthesis of ultrafast wavepackets with tailored spatiotemporal properties. Nature Photonics, 0, , .	15.6	11
2875	Design for Terahertz Circular-Core Photonic Crystal Fiber Supporting Orbital Angular Momentum Modes. Photonics, 2022, 9, 607.	0.9	0
2877	Remote sensing using a spatially and temporally controlled asymmetric perfect vortex basis generated with a 2D HOBBIT. Optics Express, 2022, 30, 34765.	1.7	7
2878	Capacity Enhancement for Free Space Optics Transmission System Using Orbital Angular Momentum Optical Code Division Multiple Access in 5G and beyond Networks. Energies, 2022, 15, 7100.	1.6	26
2879	Metasurface Enabled On-chip Generation and Manipulation of Vector Beams from Vertical Cavity Surface-emitting Lasers. Advanced Materials, 2023, 35, .	11.1	9
2880	High-dimensional orbital angular momentum comb. Advanced Photonics, 2022, 4, .	6.2	6
2881	Analysis on the characteristics of vortex beam in field turbulence. Laser Physics, 2022, 32, 105402.	0.6	5
2882	Metamaterial-based real-time communication with high information density by multipath twisting of acoustic wave. Nature Communications, 2022, 13, .	5.8	29
2883	Effect of a turbulent atmosphere on the propagation properties of partially coherent vortex cosine-hyperbolic-Gaussian beams. Optical and Quantum Electronics, 2022, 54, .	1.5	12
2884	Twisted Light in a Single-crystal Fiber: Toward Undistorted Femtosecond Vortex Amplification. Laser and Photonics Reviews, 2022, 16, .	4.4	6
2885	Inverse Design of Optical Vortex Beam Emitters. ACS Photonics, 0, , .	3.2	8
2886	Simplifying the Experimental Detection of the Vortex Topological Charge Based on the Simultaneous Astigmatic Transformation of Several Types and Levels in the Same Focal Plane. Sensors, 2022, 22, 7365.	2.1	5
2887	All-fiber switchable orbital angular momentum mode-locked laser based on TM-FBG. Applied Physics Letters, 2022, 121, .	1.5	4
2888	Annular phase grating-assisted recording of an ultrahigh-order optical orbital angular momentum. Optics Express, 2022, 30, 37526.	1.7	2
2889	On-chip ultracompact multimode vortex beam emitter based on vertical modes. Optics Express, 2022, 30, 36863.	1.7	1
2890	Metasurface Measuring Twisted Light in Turbulence. ACS Photonics, 2022, 9, 3043-3051.	3.2	2

#	ARTICLE	IF	CITATIONS
2891	Room-temperature Generation of Heralded Single Photons on Silicon Chip with Switchable Orbital Angular Momentum. <i>Laser and Photonics Reviews</i> , 0, , 2200388.	4.4	0
2892	Over-Two-Octave Supercontinuum Generation of Light-Carrying Orbital Angular Momentum in Germanium-Doped Ring-Core Fiber. <i>Sensors</i> , 2022, 22, 6699.	2.1	2
2893	Self-torqued harmonics and attosecond pulses driven by time-delayed relativistic vortex lasers. <i>Physical Review A</i> , 2022, 106, .	1.0	1
2894	Generation and verification of optical vortices with controlled phase based on coherent beam combining. <i>Physica Scripta</i> , 2022, 97, 105103.	1.2	4
2895	Particle Scattering Induced Orbital Angular Momentum Spectrum Change of Vector Bessel-Gaussian Vortex Beam. <i>Remote Sensing</i> , 2022, 14, 4550.	1.8	2
2896	Digitized subwavelength surface structure on silicon platform for wavelength-/polarization-/charge-diverse optical vortex generation. <i>Nanophotonics</i> , 2022, 11, 4551-4564.	2.9	2
2897	Sorting orbital angular momentum of photons through a multi-ring azimuthal-quadratic phase. <i>Optics Letters</i> , 2022, 47, 5032.	1.7	6
2898	Widely-tunable mid-infrared (2.6×10^4 m) picosecond vortex laser. <i>Applied Physics Express</i> , 2022, 15, 102004.	1.1	2
2899	Quantum orbital angular momentum in fibers: A review. <i>AVS Quantum Science</i> , 2022, 4, 031701.	1.8	6
2900	Study on 1.9×10^4 m structured lasers based on Ince-Gaussian modes superposition with multi-modulation by different directions off-axis dual-end-pump. <i>Optics Communications</i> , 2022, , 129020.	1.0	2
2901	Turbulence-resistant self-focusing vortex beams. <i>New Journal of Physics</i> , 2022, 24, 093036.	1.2	3
2902	Wave-band-tunable optical fiber broadband orbital angular momentum mode converter based on dispersion turning point tuning technique. <i>Optics Letters</i> , 2022, 47, 5672.	1.7	2
2903	Deep Learning Recognition of Orbital Angular Momentum Modes Over Atmospheric Turbulence Channels Assisted by Vortex Phase Modulation. <i>IEEE Photonics Journal</i> , 2022, 14, 1-9.	1.0	6
2904	Optimization of Light Field for Generation of Vortex Knot. <i>Chinese Physics Letters</i> , 2022, 39, 104101.	1.3	2
2905	Adaptive optics compensation of orbital angular momentum beams using a hybrid input-output algorithm with complementary binary masks. <i>Applied Optics</i> , 0, , .	0.9	0
2906	Basis function approach for diffractive pattern generation with Damman vortex metasurfaces. <i>Science Advances</i> , 2022, 8, .	4.7	18
2907	Beam Steering and Divergence Control Using Variable Focus Liquid Lenses for WDM FSO Communications. <i>IEEE Photonics Technology Letters</i> , 2022, 34, 1226-1229.	1.3	5
2908	Propagation characteristics study of radially polarized Gaussian vortex beam in ocean turbulence. <i>Optik</i> , 2022, 270, 170074.	1.4	0

#	ARTICLE	IF	CITATIONS
2909	Mitigating the cross talk of orbital angular momentum modes in free-space optical communication by using an annular vortex beam and a focusing mirror. <i>Frontiers in Physics</i> , 0, 10, .	1.0	2
2910	High-dimensional multi-input quantum random access codes and mutually unbiased bases. <i>Physical Review A</i> , 2022, 106, .	1.0	0
2911	Efficient and High-Purity Sound Frequency Conversion with a Passive Linear Metasurface. <i>Advanced Science</i> , 2022, 9, .	5.6	9
2912	High capacity terahertz communication systems based on multiple orbital-angular-momentum beams. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 124002.	1.0	14
2913	Orbital angular momentum for turbulence mitigation in long free-space optical communication links. <i>Physica Scripta</i> , 2022, 97, 115508.	1.2	6
2914	Correlated two-photon modulation based on nonlinear effects in a photonic synthetic lattice. <i>Physical Review A</i> , 2022, 106, .	1.0	0
2915	Mode decomposition of a few-mode fiber with OAM eigenmodes. , 2022, , .		1
2916	Index of the Polarization Singularity of Poincare Beams. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2022, 86, 1158-1163.	0.1	5
2917	Investigating the propagation characteristics of modulated circular Airy vortex beam in free space via angular spectrum method. <i>Optics Communications</i> , 2022, , 129087.	1.0	4
2918	Propagable Optical Vortices with Natural Noninteger Orbital Angular Momentum in Free Space. <i>Advanced Photonics Research</i> , 2023, 4, .	1.7	11
2919	Generation of Tunable Plasmonic Vortices by Varying Wavelength of Incident Light. <i>Photonics</i> , 2022, 9, 809.	0.9	3
2920	Long-Lived Memory for Orbital Angular Momentum Quantum States. <i>Physical Review Letters</i> , 2022, 129, .	2.9	10
2921	Quasi-electrostatic instability in non-gyrotropic tri-ion electron plasma. <i>AIP Advances</i> , 2022, 12, 105319.	0.6	0
2922	Propagation of Gaussian vortex beams in electromagnetically induced transparency media. <i>Optics Express</i> , 2022, 30, 43426.	1.7	1
2923	Coherence of orbital angular momentum matrix of non-uniformly correlated sources. <i>Optics Letters</i> , 2022, 47, 5719.	1.7	6
2924	Z _n symmetry in the vortex muon decay. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2023, 50, 015006.	1.4	4
2925	Independent control of both amplitude and phase for orthogonal circularly polarized electromagnetic waves through polarization conversions. <i>Journal Physics D: Applied Physics</i> , 2023, 56, 015101.	1.3	2
2926	Underwater wireless optical communication employing polarization multiplexing modulation and photon counting detection. <i>Optics Express</i> , 2022, 30, 43301.	1.7	8

#	ARTICLE	IF	CITATIONS
2927	MoirÃ© meta-device for flexibly controlled Bessel beam generation. <i>Photonics Research</i> , 2023, 11, 100.	3.4	9
2928	A vision towards integrated 6G communication networks: Promising technologies, architecture, and use-cases. <i>Physical Communication</i> , 2022, 55, 101917.	1.2	10
2929	Thermal Fluctuations Induced Emergence of Umbilical Defects in Nematic Liquid Crystal Cells. <i>Fundamental Theories of Physics</i> , 2022, , 303-312.	0.1	0
2930	Generation of THz Vortex Beams and Interferometric Determination of Their Topological Charge. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2023, 13, 44-49.	2.0	2
2931	Phase Off-Axis Modulation Metasurface for Orbital Angular Momentum Mode Multiplexing/Demultiplexing. <i>Journal of Lightwave Technology</i> , 2023, 41, 540-546.	2.7	2
2932	Photonic Radio Frequency Orbital Angular Momentum Generation and Beam Steering. <i>Journal of Lightwave Technology</i> , 2023, 41, 2107-2115.	2.7	1
2933	Distortion Compensation for Orbital Angular Momentum Beams: From Probing to Deep Learning. <i>Journal of Lightwave Technology</i> , 2023, 41, 2041-2050.	2.7	6
2934	High-Purity Multi-Mode Vortex Beam Generation With Full Complex-Amplitude-Controllable Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2023, 71, 774-782.	3.1	10
2935	Highly Dispersive Optical Fiber for Orbital Angular Momentum Modes. <i>Journal of Lightwave Technology</i> , 2023, 41, 2051-2060.	2.7	0
2936	Controlling spacing of double-ring perfect optical vortex using the Fourier transform of Bessel beam with axicon phase. <i>Optics and Laser Technology</i> , 2023, 158, 108881.	2.2	8
2937	Customizing optical vortex beams array by coherent beam combining technique. , 2022, , .		0
2938	Orbital Angular Momentum Wave Generation and Multiplexing: Experiments and Analysis Using Classical and Quantum Optics. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-24.	0.8	0
2939	Universal translation operator for Laguerreâ€“Gaussian mode sorting. <i>Applied Physics Letters</i> , 2022, 121, .	1.5	4
2940	Perspectives on the orbital angular momentum of light. <i>Journal of Optics (United Kingdom)</i> , 2022, 24, 124005.	1.0	5
2941	Influence of structural length-scale sensitivities on Hermiteâ€“Gaussian rectangular vortex beam propagation in biological tissues. <i>Journal of Modern Optics</i> , 2022, 69, 1094-1102.	0.6	4
2942	Applications of optical microcombs. <i>Advances in Optics and Photonics</i> , 2023, 15, 86.	12.1	37
2943	Production of polarized particle beams via ultraintense laser pulses. <i>Reviews of Modern Plasma Physics</i> , 2022, 6, .	2.2	7
2944	Generation of Isolated Intense Vortex Laser with Transverse Angular Momentum. <i>New Journal of Physics</i> , 0, , .	1.2	0

#	ARTICLE	IF	CITATIONS
2945	Spin-orbit microlaser emitting in a four-dimensional Hilbert space. <i>Nature</i> , 2022, 612, 246-251.	13.7	11
2946	Molecular Quantum Interface for Storing and Manipulating Ultrashort Optical Vortex. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	1
2947	The singularity of the partially coherent beam in biological tissue. <i>Results in Physics</i> , 2022, 43, 106097.	2.0	2
2948	Heterogeneous optical network incorporating low-loss ring-core fiber and single-mode fibers seamlessly connected by all-fiber vortex (de)multiplexer. <i>Optical Fiber Technology</i> , 2022, 74, 103142.	1.4	0
2949	A one-step pattern transferring process for freestanding diffractive spiral photon sieves in extreme ultraviolet. <i>Microelectronic Engineering</i> , 2023, 269, 111914.	1.1	4
2950	Optical Imaging Using Orbital Angular Momentum: Interferometry, Holography and Microscopy. <i>Journal of Lightwave Technology</i> , 2023, 41, 2025-2040.	2.7	9
2951	Orbital Angular Momentum Beams for High-Capacity Communications. <i>Journal of Lightwave Technology</i> , 2023, 41, 1918-1933.	2.7	17
2952	Field Synthesis With Azimuthally Varying, Cascaded, Cylindrical Metasurfaces Using a Wave Matrix Approach. <i>IEEE Transactions on Antennas and Propagation</i> , 2023, 71, 796-808.	3.1	4
2953	Long-period gratings based generator of all-fiber third-order orbital angular momentum modes assisted by femtosecond microfabrication. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2023, .	0.2	0
2954	Performance evaluation of a 160-Gbit/s OCDMA-FSO system via Laguerre-Gaussian beams under weather conditions. <i>AEJ - Alexandria Engineering Journal</i> , 2023, 63, 661-674.	3.4	14
2955	Generation of single or multiple generalized vortex beams with irregular closed-loop intensity profiles. <i>Optik</i> , 2023, 273, 170424.	1.4	0
2956	Propagation of vortex symmetric Airy beam in the turbulent link. <i>Optics Communications</i> , 2023, 530, 129199.	1.0	2
2957	Azimuth measurement based on OAM phase spectrum of optical vortices. <i>Optics Communications</i> , 2023, 530, 129170.	1.0	2
2958	All-graphene geometric terahertz metasurfaces for generating multi-dimensional focused vortex beams. <i>Optics and Laser Technology</i> , 2023, 159, 108986.	2.2	3
2959	Direct generation of orthogonally polarized dual-wavelength orbital Poincaré modes at 639Ånm and 721Ånm in a blue-diode pumped Pr:YLF laser. <i>Optics and Laser Technology</i> , 2023, 159, 108951.	2.2	6
2960	Robust neural network-assisted conjugate orbital angular momentum mode demodulation for modulation communication. <i>Optics and Laser Technology</i> , 2023, 159, 109013.	2.2	1
2961	Underwater Time of Flight Camera Rangefinding with Backscatter Phasor Subtraction. , 2022, , .		1
2962	Satellite-based continuous-variable quantum key distribution under the Earth's gravitational field. <i>Quantum Information Processing</i> , 2022, 21, .	1.0	3

#	ARTICLE	IF	CITATIONS
2963	Interaction of spin-orbit angular momentum in the tight focusing of structured light. <i>Frontiers in Physics</i> , 0, 10, .	1.0	5
2964	Shaping the transmission trajectory of vortex beam by controlling its radial phase. <i>Optics Express</i> , 2023, 31, 976.	1.7	7
2965	Hybrid opto-electronic deep neural network based orbital angular momentum mode recognition scheme in oceanic turbulence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2023, 40, 187.	0.9	5
2966	Raman-Amplification-Assisted Twisted Light Multiplexing Transmission over Large-Core Fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 0, , .	0.9	0
2967	Generating elliptic perfect optical vortex beams with efficient dielectric metasurface in the ultraviolet spectrum. <i>Optics Communications</i> , 2023, 531, 129224.	1.0	2
2968	Recognition of Half-Integer Order Vortex Beams Using Convolutional Neural Networks. <i>Optical Memory and Neural Networks (Information Optics)</i> , 2022, 31, 14-21.	0.4	2
2969	Conflict-Free Joint Sampling for Preference Satisfaction through Quantum Interference. <i>Physical Review Applied</i> , 2022, 18, .	1.5	2
2970	Improving beam structure stability of high-power Lissajous modes by an off-axis end-pumped YVO4/Nd:YVO4 laser. , 2022, , .		0
2971	Orbital-angular-momentum fluorescence emission based on photonâ€“electron interaction in a vortex field of an active optical fiber. <i>Nanophotonics</i> , 2023, 12, 43-53.	2.9	3
2972	Detection of vortex beams based on mutual interference. , 2022, , .		0
2973	Orbital angular momentum-based Fizeau interferometer measurement system. , 2022, , .		0
2974	Optical mode conversion via spatiotemporally modulated atomic susceptibility. <i>Optics Express</i> , 2023, 31, 528.	1.7	2
2975	Multi-dimensional data transmission using inverse-designed silicon photonics and microcombs. <i>Nature Communications</i> , 2022, 13, .	5.8	34
2976	High-capacity free-space optical communications using wavelength- and mode-division-multiplexing in the mid-infrared region. <i>Nature Communications</i> , 2022, 13, .	5.8	34
2977	Orbital angular momentum spectra of twisted Laguerre-Gaussian Schell-model beams propagating in weak-to-strong Kolmogorov atmospheric turbulence. <i>Optics Express</i> , 2023, 31, 916.	1.7	6
2978	Towards optical toroidal wavepackets through tight focusing of the cylindrical vector two dimensional spatiotemporal optical vortex. <i>Optics Express</i> , 2022, 30, 46666.	1.7	2
2979	Evolution of optical vortices in gradient media and curved spaces. <i>Optics Letters</i> , 0, , .	1.7	1
2980	Optical multi-imagingâ€“casting accelerator for fully parallel universal convolution computing. <i>Photonics Research</i> , 2023, 11, 299.	3.4	4

#	ARTICLE	IF	CITATIONS
2981	Using an acousto-optic modulator as a fast spatial light modulator. Optics Express, 0, , .	1.7	1
2982	Fragmental optical vortex for the detection of rotating object based on the rotational Doppler effect. Optics Express, 2022, 30, 47350.	1.7	1
2983	Broadband and efficient multi-mode fiber-chip edge coupler on a silicon platform assisted with a nano-slot waveguide. Optics Express, 2022, 30, 47249.	1.7	1
2984	Multiplication and division of orbital angular momentum beams by Fermat's spiral transformation. Photonics Research, 2023, 11, 165.	3.4	2
2985	Controlled generation of picosecond-pulsed higher-order Poincaré sphere beams from an ytterbium-doped multicore fiber amplifier. Photonics Research, 2023, 11, 181.	3.4	1
2986	Spin-orbit interactions of a circularly polarized vortex beam in paraxial propagation. Optics Express, 2023, 31, 1832.	1.7	5
2987	The trend of structured light-induced force microscopy: a review. Journal of Optics (United Kingdom), 2023, 10, 025002.	1.0	2
2988	Orbital-angular-momentum beams-based Fizeau interferometer using the advanced azimuthal-phase-demodulation method. Applied Physics Letters, 2022, 121, .	1.5	5
2989	An Orbital-Angular-Momentum- and Wavelength-Tunable 2 μ m Vortex Laser. Photonics, 2022, 9, 926.	0.9	2
2990	Generation of spatiotemporal optical vortices in ultrashort laser pulses using rotationally interleaved multispirals. Optics Express, 2022, 30, 47287.	1.7	2
2993	High-order vortex harmonic generation with circular Airy vortex beams. Journal of the Optical Society of America B: Optical Physics, 2023, 40, 398.	0.9	1
2994	The coupling of multi-channel optical vortices based on angular momentum conservation using a single-layer metal metasurface. Europhysics Letters, 2023, 141, 35001.	0.7	1
2996	The Synthetic Hilbert Space of Laser-Driven Free-Electrons. Quantum - the Open Journal for Quantum Science, 0, 7, 888.	0.0	2
2997	Supercontinuum in Telecom Applications. , 2022, , 397-432.		0
2998	Helical Structure Endows Liquid Crystal Planar Optics with a Customizable Working Band. Advanced Quantum Technologies, 2023, 6, .	1.8	10
2999	Unidirectional ring vortex laser using a wedge-plate shearing interferometer. Optics Express, 2023, 31, 4954.	1.7	3
3000	Scintillation of orbital angular momentum of Bessel Gaussian beam and its application on multi-parameter multiplexing. Optics Express, 0, , .	1.7	5
3001	Versatile generation and manipulation of phase-structured light beams using on-chip subwavelength holographic surface gratings. Nanophotonics, 2023, 12, 55-70.	2.9	7

#	ARTICLE	IF	CITATIONS
3002	Non-Zero Dispersion-Shifted Ring-Core Fiber Supporting 60 OAM Modes. <i>Journal of Lightwave Technology</i> , 2023, 41, 2145-2151.	2.7	1
3003	Medical Devices Based on Mimicry in Light-Matter Interaction: "Structured Matter Meets Structured Light". <i>Engineering Materials</i> , 2023, , 283-324.	0.3	0
3004	A Third Angular Momentum of Photons. <i>Symmetry</i> , 2023, 15, 158.	1.1	3
3005	Resolution Analysis of Coincidence Imaging Based on OAM Beams With Equal Divergence Angle. <i>IEEE Transactions on Antennas and Propagation</i> , 2023, 71, 2891-2896.	3.1	2
3006	Measuring the orbital angular momentum of a vortex beam under extremely low coherence. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	7
3007	Propagation and focusing characteristics of the Bessel-Gaussian beam with the spiral phase term of new power-exponent-phase. <i>Chinese Physics B</i> , 2023, 32, 044201.	0.7	2
3008	Theory and Experiment of Spatial Light Modulation and Demodulation With Multi-Plane Diffraction and Applications. <i>IEEE Access</i> , 2023, 11, 872-889.	2.6	0
3009	Tuneable optical diffractive structures from liquid crystalline materials incorporated into periodic polymeric scaffolds. <i>Liquid Crystals</i> , 2023, 50, 1229-1242.	0.9	0
3010	Tunable bi-direction terahertz vortex beam generator based on Dirac semimetals. <i>Optics Communications</i> , 2023, 533, 129279.	1.0	3
3011	Generating superposed terahertz perfect vortices via a spin-multiplexed all-dielectric metasurface. <i>Photonics Research</i> , 2023, 11, 431.	3.4	9
3012	Vortex-induced quasi-shear polaritons. , 2023, 2, .		4
3013	Differential Frequency Exploration of Vortex Light in Lithium Niobate Crystals. <i>Crystals</i> , 2023, 13, 154.	1.0	0
3014	Orbital angular momentum mode sorting by wavefront shaping with customizable optical phase conjugation through a diffuser. <i>Optics Communications</i> , 2023, 531, 129230.	1.0	1
3015	Controllable customization of optical vortex lattices with coherent laser array. <i>Optics and Laser Technology</i> , 2023, 160, 109045.	2.2	3
3016	Communication Performance of OAM Based FSO System in Weak Turbulence Environment. , 2022, , .		0
3017	Application of Twisted Radio Waves in a Polarization Radiolocation. , 2022, , .		0
3018	Study on the Design of Simple Quantum Communications Based on Orbital Angular Momentum. , 2022, , .		0
3019	Generation of Stochastic Structured Light Beams with Controllable Beam Parameters. <i>ACS Photonics</i> , 0, , .	3.2	2

#	ARTICLE	IF	CITATIONS
3020	Performance Evaluation of OAM Transmission with Vortex Microwave Photons. , 2022, , .		0
3021	Enhancing Performance of Airâ€“Ground OAM Communication System Utilizing Vector Vortex Beams in the Atmosphere. Photonics, 2023, 10, 41.	0.9	3
3022	Optical RDE-based detection of the rotating objects free of obstructions. , 2023, , .		0
3023	Spiral fractional vortex beams. Optics Express, 2023, 31, 7813.	1.7	4
3024	Creation and Control of Vortexâ€“Beam Arrays in Atomic Vapor. Laser and Photonics Reviews, 2023, 17, .	4.4	11
3025	Manipulation of the orbital angular momentum via four-wave mixing in Rb vapor. Laser Physics Letters, 2023, 20, 035204.	0.6	2
3026	High-Security OFDM-OAM Optical Transmission Scheme Based on Quad-Wing Ultra-Chaotic Encryption. IEEE Photonics Journal, 2023, 15, 1-7.	1.0	0
3027	Intense vortical-field generation using coherent superposition of multiple vortex beams. Scientific Reports, 2023, 13, .	1.6	1
3028	Broadband Visâ€“NIR Circular Polarizer with Cascaded Aluminum Wireâ€“Grid. Advanced Materials Technologies, 2023, 8, .	3.0	1
3029	Nonlinear Conformal Transformation for In Situ IRâ€“Visible Detection of Orbital Angular Momentum. Laser and Photonics Reviews, 0, , 2200656.	4.4	0
3030	Multistep ahead atmospheric optical turbulence forecasting for free-space optical communication using empirical mode decomposition and LSTM-based sequence-to-sequence learning. Frontiers in Physics, 0, 11, .	1.0	0
3031	Transfer of optical vortices at the Landau level of graphene. European Physical Journal Plus, 2023, 138, .	1.2	3
3032	Adaptive Transceiver Design for High-Capacity Multi-Modal Free-Space Optical Communications With Commercial Devices and Atmospheric Turbulence. Journal of Lightwave Technology, 2023, 41, 3397-3406.	2.7	6
3033	Wavefront Characteristics of Transmitted Orbital Angular Momentum Wave at 30 GHz. , 2022, , .		0
3034	Customized Micron-Scale Waveguide-Grating Structure for Vortex Laser Emission in Tm:YLF Processed by Femtosecond Laser Direct Writing. Journal of Lightwave Technology, 2023, 41, 5653-5659.	2.7	2
3035	0â€“360 Degrees angular measurements using spatial displacement. Applied Physics Letters, 2023, 122, 111106.	1.5	0
3036	Scanning mirror based higher order Bessel-gaussian beams integrated in time (HOBBIT) with applications toward the photoacoustic effect. Optics Express, 2023, 31, 14185.	1.7	3
3037	Second-order statistics of a Hermite-Gaussian correlated Schell-model beam carrying twisted phase propagation in turbulent atmosphere. Optics Express, 2023, 31, 13255.	1.7	3

#	ARTICLE	IF	CITATIONS
3038	Generation of frequency-degenerated orbital angular momentum states with tunable proportion of intensity in an all-solid-state vortex laser. <i>Optik</i> , 2023, 279, 170779.	1.4	0
3039	Wavefront reconstruction of vortex beam propagation in atmospheric turbulence based on deep learning. <i>Optik</i> , 2023, 279, 170635.	1.4	0
3040	Orbital angular momentum mode demodulation with neural network-assisted coherent nanophotonic circuits. <i>Optics Communications</i> , 2023, 537, 129433.	1.0	0
3041	Inverse-designed single-phase elastic metasurfaces for underwater acoustic vortex beams. <i>Journal of the Mechanics and Physics of Solids</i> , 2023, 174, 105247.	2.3	6
3042	Generation of three-dimensional polarization-controlled tunable multiplex focused optical vortex and vector vortex beams via liquid crystal geometric phase. <i>Optics Communications</i> , 2023, 537, 129401.	1.0	0
3043	Partially coherent anomalous vortex beam in anisotropic turbulence. <i>Optics Communications</i> , 2023, 537, 129411.	1.0	3
3044	Tunable Polarization-Preserving Vortex Beam Generator Based on Diagonal Cross-Shaped Graphene Structures at Terahertz Frequency. <i>Advanced Optical Materials</i> , 2023, 11, .	3.6	1
3045	Algorithm design of a Rubik metamaterial for sextuple orbital angular momentums. <i>Microwave and Optical Technology Letters</i> , 0, , .	0.9	0
3046	Propagation of vortex optical beams through artificial convective turbulence. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2023, 302, 108568.	1.1	2
3047	Two-Octave Supercontinuum Generation in Ring-Core Fiber with Graded-Index Profile. , 2022, , .		0
3048	Measurement of orbital angular momentum of light using Stokes parameters and Barnett's formalism. , 2023, , .		1
3049	Subwavelength Diffractive Optical Elements for Generation of Terahertz Coherent Beams with Pre-Given Polarization State. <i>Sensors</i> , 2023, 23, 1579.	2.1	5
3050	High-power Er:Y2O3 ceramic laser with an optical vortex beam output at $\lambda = 2.7 \mu\text{m}$. <i>Frontiers in Physics</i> , 0, 11, .	1.0	1
3051	Orbital Angular Momentum in Nanoplasmonic Vortices. <i>ACS Photonics</i> , 2023, 10, 340-367.	3.2	15
3052	Broadband, Low-Crosstalk, and Massive Channels OAM Modes De/Multiplexing Based on Optical Diffraction Neural Network. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	5
3053	Channel Polarization Scheme for Ocean Turbulence Channels in Underwater Visible Light Communication. <i>Journal of Marine Science and Engineering</i> , 2023, 11, 341.	1.2	1
3054	The Effect of Air Turbulence on Vortex Beams in Nonlinear Propagation. <i>Sensors</i> , 2023, 23, 1772.	2.1	2
3055	Integrated Photonic Neural Networks: Opportunities and Challenges. <i>ACS Photonics</i> , 0, , .	3.2	5

#	ARTICLE	IF	CITATIONS
3056	Coloured vortex beams with incoherent white light illumination. <i>Nature Nanotechnology</i> , 2023, 18, 264-272.	15.6	22
3057	Reflective Spiral Phase Converter: A New Route to Ultrafast Singular Optics. <i>Journal of Lightwave Technology</i> , 2023, 41, 2185-2195.	2.7	1
3058	Error Analysis of Generation and Detection of Electromagnetic Vortex Using Uniform Circular Array. <i>Kongjian Kexue Xuebao</i> , 2018, 38, 393.	0.2	0
3059	60 nm Span Wavelength-Tunable Vortex Fiber Laser with Intracavity Plasmon Metasurfaces. <i>ACS Photonics</i> , 2023, 10, 623-631.	3.2	8
3060	A Broadband Vortex Beam Generator Based on Single-Layer Hybrid Phase-Turning Metasurface. <i>Micromachines</i> , 2023, 14, 465.	1.4	3
3061	Polarization-dependent phase-modulation metasurface for vortex beam (de)multiplexing. <i>Nanophotonics</i> , 2023, 12, 1129-1135.	2.9	9
3062	A versatile geometric metasurface for generating both focused vortex and vector beams. <i>Results in Physics</i> , 2023, 46, 106309.	2.0	1
3063	Generalized spiral transformation for high-resolution sorting of vortex modes. <i>Optics Letters</i> , 2023, 48, 1762.	1.7	3
3064	Highly-twisted states of light from a high quality factor photonic crystal ring. <i>Nature Communications</i> , 2023, 14, .	5.8	4
3065	Enhancing and flattening multiplexed quantum entanglement by utilizing perfect vortex modes. <i>Optics Letters</i> , 2023, 48, 1782.	1.7	2
3066	A general phase-modulating solution for generating optical array with arbitrary dimensions via mapping space. <i>Applied Physics Letters</i> , 2023, 122, 091102.	1.5	1
3067	Generation of vortex beams with nonuniform phase jumps in azimuthal locations. <i>Journal of Optics (United Kingdom)</i> , 2023, 25, 045601.	1.0	2
3068	Synthetic spin dynamics with Bessel-Gaussian optical skyrmions. <i>Optics Express</i> , 2023, 31, 15289.	1.7	4
3069	Optimized Catenary Metasurface for Detecting Spin and Orbital Angular Momentum via Momentum Transformation. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 3237.	1.3	0
3070	Optical Encoding Model Based on Orbital Angular Momentum Powered by Machine Learning. <i>Sensors</i> , 2023, 23, 2755.	2.1	4
3071	Polarization singularities in planar electromagnetic resonators with rotation and mirror symmetries. <i>Photonics Research</i> , 2023, 11, 936.	3.4	1
3072	Evolution of Wigner-distribution-function oblique Airy-Airy vortex wavepackets in a dispersive chiral medium. <i>Waves in Random and Complex Media</i> , 0, , 1-22.	1.6	0
3073	Adaptive optics pre-compensation for orbital angular momentum beams transmitting through simulated atmospheric turbulence. <i>Optics Express</i> , 2023, 31, 13665.	1.7	1

#	ARTICLE	IF	CITATIONS
3074	Optical Encryption in the Photonic Orbital Angular Momentum Dimension via Direct-Laser-Writing 3D Chiral Metahelices. <i>Nano Letters</i> , 2023, 23, 2304-2311.	4.5	5
3075	Yb fiber vortex laser using an interferometric mode converting output coupler. , 2023, , .		0
3076	Detection of the Orbital Angular Momentum State of Light using Sinusoidally-shaped Phase Grating. , 2022, , .		0
3077	Economical generation of high-quality optical vortices with gradual-width Fermat spiral slit mask. <i>Science China: Physics, Mechanics and Astronomy</i> , 2023, 66, .	2.0	2
3078	A Fast Design Method of Anisotropic Dielectric Lens for Vortex Electromagnetic Wave Based on Deep Learning. <i>Materials</i> , 2023, 16, 2254.	1.3	0
3079	Optical analog-signal transmission system in dynamic and complex scattering environment using binary encoding with a modified differential method. <i>Optics Express</i> , 0, , .	1.7	0
3080	Observation of Perfectly-Chiral Exceptional Point via Bound State in the Continuum. <i>Physical Review Letters</i> , 2023, 130, .	2.9	13
3081	Design and optimization of GI-PCF supporting the orbital angular momentum modes based on negative curvature structure. <i>Optics Express</i> , 2023, 31, 12059.	1.7	0
3082	Integrated circuits based on broadband pixel-array metasurfaces for generating data-carrying optical and THz orbital angular momentum beams. <i>Nanophotonics</i> , 2023, 12, 2669-2685.	2.9	2
3083	Experimental Synthesis and Demonstration of the Twisted Laguerre-Gaussian Schell-Mode Beam. <i>Photonics</i> , 2023, 10, 314.	0.9	0
3084	Observation of the rotational Doppler shift of a spinning object based on an acoustic vortex with a Fresnel-spiral zone plate. <i>Journal of Applied Physics</i> , 2023, 133, 114502.	1.1	0
3085	Scattering analysis of a Laguerre Gaussian beam for target detection. <i>Applied Optics</i> , 2023, 62, 2669.	0.9	0
3086	A THz-OAM Wireless Communication System Based on Transmissive Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2023, 71, 4194-4203.	3.1	11
3087	Efficient Dense Orbital Angular Momentum Demultiplexing Enabled by Quasi-Wavelet Conformal Mapping. <i>Laser and Photonics Reviews</i> , 2023, 17, .	4.4	3
3088	Highly efficient harmonic vortex generation from a laser irradiated hollow-cone target. <i>Optics Letters</i> , 2023, 48, 2046.	1.7	0
3089	Capacity Enhancement Analysis of an OAM-OFDM-SMM Multiplexed Free Space Communication System in Atmospheric Turbulence. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 3897.	1.3	7
3090	Generation of tunable, non-integer OAM states from an optical parametric oscillator. <i>Applied Physics Letters</i> , 2023, 122, .	1.5	2
3091	Spatially structured light fields and their propagation manipulation. <i>Progress in Optics</i> , 2023, , 191-252.	0.4	0

#	ARTICLE	IF	CITATIONS
3092	Laguerre Gaussian mode holography and its application in optical encryption. Optics Express, 2023, 31, 12922.	1.7	5
3093	Abrupt autofocusing performance of a circular Airyprime beam with vortex pairs. Results in Physics, 2023, 47, 106377.	2.0	4
3094	A chiral microchip laser using anisotropic grating mirrors for single mode emission. Nanophotonics, 2023, .	2.9	3
3095	Optical Orbital Angular Momentum Processors with Electrically Tailored Working Bands. Laser and Photonics Reviews, 2023, 17, .	4.4	10
3096	A Hybrid Cladding Ring-Core Photonic Crystal Fibers for OAM Transmission with Weak Spin-Orbit Coupling and Strong Bending Resistance. Photonics, 2023, 10, 352.	0.9	1
3097	Demonstration of the First Outdoor 2-1/4m-Band Real-Time Video Transmission Free-Space Optical Communication System Using a Self-Designed Single-Frequency Fiber Laser. Journal of Lightwave Technology, 2023, 41, 5275-5283.	2.7	4
3098	Generation, Topological Charge, and Orbital Angular Momentum of Off-Axis Double Vortex Beams. Photonics, 2023, 10, 368.	0.9	7
3099	Helical particle manipulation based on power-exponent-phase acoustic vortices generated by a sector transducer array. Chinese Physics B, 2023, 32, 064304.	0.7	1
3100	Tunable mode convertor based on fiber Bragg grating inscribed in graded-index nine-mode fiber. Optics Letters, 2023, 48, 2233.	1.7	0
3101	Parabolic-Index Ring-Core Fiber Supporting High-Purity Orbital Angular Momentum Modes. Sensors, 2023, 23, 3641.	2.1	2
3102	Optical spin-orbit interaction in spontaneous parametric downconversion. Optica, 2023, 10, 538.	4.8	4
3103	Turbulence-resistant high-capacity free-space optical communications using OAM mode group multiplexing. Optics Express, 2023, 31, 14454.	1.7	7
3104	Multichannel Single-Photon Emissions with On-Demand Momentums by Using Anisotropic Quantum Metasurfaces. Advanced Materials, 2023, 35, .	11.1	4
3105	æ°ã,æ%ç-â°-é«æ~æŕjæ-â...%æŸãšã...ŕããšæ€ã¼è¾“ç%¹æ\$. Guangxue Xuebao/Acta Optica Sinica, 2023, 43, 0626001.		
3106	Meta-optics inspired surface plasmon devices. , 2023, 2, R02.		21
3107	Orbital angular momentum detection device for vortex microwave photons. , 2023, 2, .		5
3108	Improved Radiation Resistance of Er-Yb Co-Doped Silica Fiber by Pretreating Fibers. Photonics, 2023, 10, 414.	0.9	1
3109	High Baud Rate On-chip Spatial Mode Signaling Based on Tapered Asymmetric Directional Coupler. , 2022, , .		0

#	ARTICLE	IF	CITATIONS
3110	Free-Space Turbulence Resistance Transmission with Multiple Quasi-Ring Airy Vortex Beams under Limited Receiving Aperture. , 2022, , .		0
3111	Impacts of low-order aberrations on capacity of orbital-angular-momentum quantum states. Communications in Theoretical Physics, 0, , .	1.1	0
3112	A Robust Basis for Multi-€Bit Optical Communication with Vectorial Light. Laser and Photonics Reviews, 2023, 17, .	4.4	2
3113	Compact and sturdy orbital angular momentum sorter without destroying photon states. Journal of Optics (United Kingdom), 2023, 25, 065402.	1.0	3
3114	Diode-pumped Nd:YVO4 lasers with cylindrical vector vortex output in continuous-wave and Q-switched operation. Optics and Laser Technology, 2023, 164, 109483.	2.2	0
3115	Chiral Metasurface Enabled Circularly Polarized OAM-Generating Folded Transmitarray Antenna With High-Gain Low-Profile and Broadband Characteristics. IEEE Transactions on Antennas and Propagation, 2023, 71, 4737-4746.	3.1	2
3116	Generation of terahertz spatiotemporal optical vortices with frequency-dependent orbital angular momentum. Optics Express, 2023, 31, 16267.	1.7	1
3117	Generation and measurement of irregular polygonal perfect vortex optical beam based on all-dielectric geometric metasurface. Optics Express, 2023, 31, 16192.	1.7	3
3118	Free-space mid-IR communications using wavelength and mode division multiplexing. Optics Communications, 2023, 541, 129518.	1.0	3
3129	Vortex-Beam Information Exchange. , 2023, , 383-416.		0
3131	Crosstalk Analysis of an OAM-Multiplexing System Under Atmospheric Turbulence. , 2023, , 205-227.		0
3136	Ultra-Degree-of-Freedom Structured Light for Ultracapacity Information Carriers. ACS Photonics, 2023, 10, 2149-2164.	3.2	16
3148	Simulation of the vortex beams formation while diffraction on square contour-like and spiral apertures. , 2023, , .		0
3150	Formation of a set of axial optical bottles due to annular screening of the binary axicon. , 2023, , .		0
3151	Simulation of diffraction of vortex beams on curvilinear diffraction gratings. , 2023, , .		0
3185	Enhancing Joint Communications and Sensing for CubeSat Networks in the Terahertz Band through Orbital Angular Momentum. , 2023, , .		1
3195	Selective high-order resonance in asymmetric plasmonic nanostructures stimulated by vortex beams. Nanoscale, 2023, 15, 11860-11866.	2.8	0
3200	Basic Characteristics of Vortex Beams. , 2023, , 41-62.		0

#	ARTICLE	IF	CITATIONS
3211	Metasurface measuring twisted light in turbulence. , 2022, , .		0
3221	A Novel highly sensitive Method of Frequency domain Detection and Recognition for OAM State based on CNN with ReLU. , 2023, , .		0
3222	Probing the OAM Spectrum of Atmospheric Turbulence at Short Time Scales with OAM-Based Wavelets. , 2023, , .		0
3223	Experimental Demonstration of Orbital Angular Momentum Multiplexed Free-Space Optical Chaos-based Communications. , 2023, , .		0
3233	Inversion of orbital-angular-momentum light field based on strongly scattering medium. , 2023, , .		0
3238	Vortex clustering in chiral nematic liquid crystal microdroplets. , 2023, , .		0
3240	Topological transition to a vortices lattice in a nematic liquid crystal cell. , 2023, , .		0
3305	Propagation of OAM beams through atmospheric turbulence: comparison of simulation and experiment. , 2023, , .		0
3318	Hybrid Beam Focusing for MIMO OAM Communications. , 2023, , .		0
3320	Demonstration of 1.44 Tbit/s OAM Multiplexing Transmission in Sub-THz Bands. , 2023, , .		0
3338	OAM beam correction based on Gerchberg-saxton algorithm. , 2023, , .		0
3353	Performance of optical OAM demultiplexing system based on a scattering medium diffuser. , 2023, , .		0
3354	Effect of azimuthal phase gradient variation on optical spiral vortex. , 2023, , .		0
3355	Overview of OAM Technology in Communications. <i>Wireless Networks</i> , 2024, , 1-51.	0.3	0
3371	Dispersion Compensation Fiber for OAM Modes with Dual Graded-index Concentric Ring Cores. , 2023, , .		0
3388	Reconfigurable Metasurface with Varactor Diodes for Generation of Multi-mode OAM Vortex Beams. , 2023, , .		0
3393	Turbulent OAM Compensation Using CNN for OAM-Based FSO Communications. , 2023, , .		0
3396	Performance of Bit Error Rate (BER) in OOK Modulation Using Orbital Angular Momentum (OAM) Carrying Gaussian Vortex Beam. , 2023, , .		0

#	ARTICLE	IF	CITATIONS
3409	Photonic matrix computing accelerators. , 2024, , 257-293.		0
3431	Design of Novel Reciprocal Inverse Graded Index Fiber (R-IGIF) For OAM-SDM communication Systems. , 2023, , .		0
3440	Reflective and Transmission Metasurfaces for Orbital Angular Momentum Vortex Waves Generation. , 2024, , 223-285.		0
3444	Metasurface Measuring Twisted Light in Turbulence. , 2022, , .		0