

Jiangbo Zhu

List of Publications by Year in descending order

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80
papers

2,193
citations

394421

19
h-index

395702

33
g-index

80
all docs

80
docs citations

80
times ranked

1970
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrated Compact Optical Vortex Beam Emitters. <i>Science</i> , 2012, 338, 363-366.	12.6	773
2	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. <i>Nature Communications</i> , 2014, 5, 4856.	12.8	149
3	Spiral Transformation for High-Resolution and Efficient Sorting of Optical Vortex Modes. <i>Physical Review Letters</i> , 2018, 120, 193904.	7.8	143
4	18-km low-crosstalk OAM+WDM transmission with 224 individual channels enabled by a ring-core fiber with large high-order mode group separation. <i>Optics Letters</i> , 2018, 43, 1890.	3.3	111
5	Orbital angular momentum vertical-cavity surface-emitting lasers. <i>Optica</i> , 2015, 2, 547.	9.3	108
6	Scalable mode division multiplexed transmission over a 10-km ring-core fiber using high-order orbital angular momentum modes. <i>Optics Express</i> , 2018, 26, 594.	3.4	99
7	Compact and high-performance vortex mode sorter for multi-dimensional multiplexed fiber communication systems. <i>Optica</i> , 2020, 7, 254.	9.3	95
8	Spin-orbit interaction of light induced by transverse spin angular momentum engineering. <i>Nature Communications</i> , 2018, 9, 926.	12.8	92
9	Orbital angular momentum mode-demultiplexing scheme with partial angular receiving aperture. <i>Optics Express</i> , 2015, 23, 12251.	3.4	57
10	Generation of coherent and frequency-lock multi-carriers using cascaded phase modulators and recirculating frequency shifter for Tb/s optical communication. <i>Optics Express</i> , 2011, 19, 12891.	3.4	54
11	Orbital-angular-momentum mode-group multiplexed transmission over a graded-index ring-core fiber based on receive diversity and maximal ratio combining. <i>Optics Express</i> , 2018, 26, 4243.	3.4	52
12	Theoretical model for angular grating-based integrated optical vortex beam emitters. <i>Optics Letters</i> , 2013, 38, 1343.	3.3	49
13	Stable Optical Frequency-Locked Multicarriers Generation by Double Recirculating Frequency Shifter Loops for Tb/s Communication. <i>Journal of Lightwave Technology</i> , 2012, 30, 3938-3945.	4.6	37
14	Spin and orbital angular momentum and their conversion in cylindrical vector vortices. <i>Optics Letters</i> , 2014, 39, 4435.	3.3	37
15	Mode Division Multiplexing Based on Ring Core Optical Fibers. <i>IEEE Journal of Quantum Electronics</i> , 2018, 54, 1-18.	1.9	32
16	A Novel Return-to-Zero FSK Format for 40-Gb/s Transmission System Applications. <i>Journal of Lightwave Technology</i> , 2010, 28, 1770-1782.	4.6	31
17	On-chip switchable radially and azimuthally polarized vortex beam generation. <i>Optics Letters</i> , 2018, 43, 1263.	3.3	28
18	The use of KnockOut serum replacement (KSR) in three dimensional rat testicular cells co-culture model: An improved male reproductive toxicity testing system. <i>Food and Chemical Toxicology</i> , 2017, 106, 487-495.	3.6	26

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19	Ultra-dense perfect optical orbital angular momentum multiplexed holography. Optics Express, 2021, 29, 28452.	3.4	26
20	Sorting full angular momentum states with Pancharatnam-Berry metasurfaces based on spiral transformation. Optics Express, 2020, 28, 16342.	3.4	23
21	80-Channel WDM-MDM Transmission over 50-km Ring-Core Fiber Using a Compact OAM DEMUX and Modular 4 \times 4 MIMO Equalization. , 2019, , .		16
22	Integrated optical vortex beam receivers. Optics Express, 2016, 24, 28529.	3.4	14
23	Tunable Orbital Angular Momentum Converter Based on Integrated Multiplexers. Journal of Lightwave Technology, 2021, 39, 91-97.	4.6	13
24	4 OAM x 4 WDM Optical Switching Based on an Innovative Integrated Tunable OAM Multiplexer. , 2018, , .		12
25	First Demonstration of Orbital Angular Momentum (OAM) Distributed Raman Amplifier over 18-km OAM Fiber with Data-Carrying OAM Multiplexing and Wavelength-Division Multiplexing. , 2018, , .		10
26	Pattern manipulation via on-chip phase modulation between orbital angular momentum beams. Applied Physics Letters, 2015, 107, 051102.	3.3	9
27	10 OAM \times 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.	4.6	9
28	Characterizing a 14 \times 14 OAM mode transfer matrix of a ring-core fiber based on quadrature phase-shift interference. Optics Letters, 2017, 42, 1257.	3.3	9
29	Excitation of high order orbital angular momentum modes in ultra-short chiral long period fiber gratings. Optics Express, 2021, 29, 39384.	3.4	9
30	Accurate Mode-Coupling Characterization of Low-Crosstalk Ring-Core Fibers Using Integral Calculation Based Swept-Wavelength Interferometry Measurement. Journal of Lightwave Technology, 2021, 39, 6479-6486.	4.6	8
31	High purity optical vortex generation in a fiber Bragg grating inscribed by a femtosecond laser. Optics Letters, 2020, 45, 6679.	3.3	8
32	Companding transform for PAPR reduction in coherent optical OFDM system. , 2012, , .		7
33	High-Precise Fractional Orbital Angular Momentum Probing With a Fiber Grating Tip. Journal of Lightwave Technology, 2021, 39, 1867-1872.	4.6	7
34	A modulation scheme for 100Gb/s modified minimum-shift keying format based on imbalanced bias in IQ components. Optical Fiber Technology, 2011, 17, 601-607.	2.7	6
35	3.36-Tbit/s OAM and Wavelength Multiplexed Transmission over an Inverse-Parabolic Graded Index Fiber. , 2017, , .		6
36	Manipulating optical vortices using integrated photonics. Frontiers of Optoelectronics, 2016, 9, 194-205.	3.7	5

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37	Direct generation of orbital angular momentum beams by integrating all-dielectric metasurface to vertical-cavity surface-emitting laser. , 2017, , .		3
38	Low-Loss Ring-Core Fiber Supporting 4 Mode Groups. , 2019, , .		3
39	19.2Tb/s Optical Switch Based on an Integrated OAM Multiplexer. , 2018, , .		2
40	MIMO-free WDM-MDM transmission over 100-KM single-span ring-core fibre. , 2019, , .		2
41	Generation of Flat and Stable Multi-carriers based on Only Integrated IQ Modulator and its Implementation for 112Gb/s PM-QPSK Transmitter. , 2012, , .		2
42	Frequency estimation for optical coherent MSK system. Proceedings of SPIE, 2010, , .	0.8	1
43	Novel orthogonal modulation format DRZ-FSK/DPSK for high-speed long-haul optical communication. Chinese Optics Letters, 2010, 8, 852-855.	2.9	1
44	A coaxially integrated photonic orbital angular momentum beam multiplexer. , 2016, , .		1
45	Cascaded metasurface structures. , 2017, , .		1
46	Scalable Orbital Angular Momentum Mode-Division-Multiplexed Transmission over 10-km Graded-Index Ring-Core Fiber. , 2017, , .		1
47	The Orbital Angular Momentum of Light for Next Generation Optical Switches. , 2018, , .		1
48	360° on Chip Optical Beam Steering Based on Superposition of Planar Spiral Orbital Angular Momentum Waves. , 2019, , .		1
49	On-chip Electrical Modulation of Phase Shift between Optical Vortices with Opposite Topological Charge. , 2014, , .		1
50	Coupled Mode Analysis of Angular Grating-Based Optical Vortex Beam Emitters. , 2014, , .		1
51	Integrated Optical Vortex Vertical-Cavity Surface-Emitting Lasers. , 2015, , .		1
52	Monolithic integrated optical vortex sorter based on cascaded metasurface structures. , 2017, , .		1
53	Coherent detection of 40-Gb/s optical minimum-shift keying modulation. Proceedings of SPIE, 2010, , .	0.8	0
54	The theoretical and numerical models of the novel and fast tunable semiconductor ring laser. , 2010, , .		0

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55	Coherent detection of 40-Gb/s optical minimum-shift keying modulation. , 2010, , .		0
56	InP-based micro-disc lasers using non-concentric hole as mode control and light extraction mechanism. , 2010, , .		0
57	A flexible bandwidth scheduling scheme based on three dimensional divisions multiplexing of MSK-OFDM for passive optical network. , 2010, , .		0
58	Frequency estimation for optical coherent MSK system. , 2010, , .		0
59	The theoretical and numerical models of the novel and fast tunable semiconductor ring laser. , 2010, , .		0
60	High spectral quality defect-coupled 1550nm micro-disc lasers. , 2010, , .		0
61	Compensation of quadrature imbalance in an optical coherent OQPSK receiver in presence of frequency offset. Frontiers of Optoelectronics in China, 2011, 4, 288-291.	0.2	0
62	Slow-light optical buffers based on a ring resonator and an OFDM transmitter. , 2012, , .		0
63	A numerical study of UTC-PD structures with beryllium as the p-dopant. , 2013, , .		0
64	A flat and stable multi-carriers generation scheme based on one integrated IQ modulator and its implementation for 112Gb/s PM-QPSK transmitter. Optics Communications, 2013, 291, 173-178.	2.1	0
65	A scheme to expand the delay-bandwidth product in the resonator-based delay lines by optical OFDM technique. Optics Communications, 2013, 305, 240-246.	2.1	0
66	Measuring the angular emission of optical vortex beams from integrated devices. , 2014, , .		0
67	Actively reconfigurable compact vortex beam emitters. , 2014, , .		0
68	Strategies and resources of mode-division-multiplexed optical fibre transmission based on LP and orbital angular momentum modes. , 2017, , .		0
69	Tunable Orbital Angular Momentum (OAM) Conversion on 100Gb/s Real Data Traffic by Exploiting Concentric Waveguide Emitters. , 2017, , .		0
70	Orbital angular momentum assisted spin-directional coupling. , 2017, , .		0
71	The Orbital Angular Momentum of Light for Ultra-High Capacity Data Centers. , 2018, , .		0
72	Mode-Dependent Characterization of Rayleigh Backscattering in Ring-Core Fibers. , 2021, , .		0

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73	Frequency estimation for optical coherent MSK system. , 2010, , .		0
74	Fast Switching of Optical Vortex Beam Mode Orders Generated Using a Fully Integrated SOI Device. , 2014, , .		0
75	Characterizing a 10 \times 10 OAM propagation matrix of few-mode fiber by a dual-interference pattern method. , 2016, , .		0
76	Random Degenerate-Mode-Mixing Independent OAM Mode-Group (De)multiplexing over a Graded-Index Ring-Core Fiber. , 2017, , .		0
77	Generation of vectorial vortex beams with switchable radial and azimuthal polarizations. , 2017, , .		0
78	Scalable Mode Division Multiplexing using Orbital Angular Momentum Mode Groups in Ring Core Fibres. , 2017, , .		0
79	High-resolution and compact vortex mode sorters based on a spiral transformation. , 2018, , .		0
80	A compact mode sorter for demultiplexing vortex light beams. , 2019, , .		0