

# 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	Tunable Orbital Angular Momentum Converter Based on Integrated Multiplexers. Journal of Lightwave Technology, 2021, 39, 91-97.	4.6	13
2	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
3	10 OAM $\lambda$ — 16 Wavelengths Two-Layer Switch Based on an Integrated Mode Multiplexer for 19.2 $\lambda$ Tb/s Data Traffic. Journal of Lightwave Technology, 2021, 39, 3217-3224.	4.6	9
4	Ultra-dense perfect optical orbital angular momentum multiplexed holography. Optics Express, 2021, 29, 28452.	3.4	26
5	High-Precise Fractional Orbital Angular Momentum Probing With a Fiber Grating Tip. Journal of Lightwave Technology, 2021, 39, 1867-1872.	4.6	7
6	Mode-Dependent Characterization of Rayleigh Backscattering in Ring-Core Fibers. , 2021, , .		0
7	Excitation of high order orbital angular momentum modes in ultra-short chiral long period fiber gratings. Optics Express, 2021, 29, 39384.	3.4	9
8	Sorting full angular momentum states with Pancharatnam-Berry metasurfaces based on spiral transformation. Optics Express, 2020, 28, 16342.	3.4	23
9	Compact and high-performance vortex mode sorter for multi-dimensional multiplexed fiber communication systems. Optica, 2020, 7, 254.	9.3	95
10	High purity optical vortex generation in a fiber Bragg grating inscribed by a femtosecond laser. Optics Letters, 2020, 45, 6679.	3.3	8
11	360 $\lambda$ on Chip Optical Beam Steering Based on Superposition of Planar Spiral Orbital Angular Momentum Waves. , 2019, , .		1
12	MIMO-free WDM-MDM transmission over 100-KM single-span ring-core fibre. , 2019, , .		2
13	80-Channel WDM-MDM Transmission over 50-km Ring-Core Fiber Using a Compact OAM DEMUX and Modular 4 $\lambda$ —4 MIMO Equalization. , 2019, , .		16
14	Low-Loss Ring-Core Fiber Supporting 4 Mode Groups. , 2019, , .		3
15	A compact mode sorter for demultiplexing vortex light beams. , 2019, , .		0
16	Spin-orbit interaction of light induced by transverse spin angular momentum engineering. Nature Communications, 2018, 9, 926.	12.8	92
17	The Orbital Angular Momentum of Light for Next Generation Optical Switches. , 2018, , .		1
18	The Orbital Angular Momentum of Light for Ultra-High Capacity Data Centers. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	19.2Tb/s Optical Switch Based on an Integrated OAM Multiplexer. , 2018, , .		2
20	Scalable mode division multiplexed transmission over a 10-km ring-core fiber using high-order orbital angular momentum modes. Optics Express, 2018, 26, 594.	3.4	99
21	Orbital-angular-momentum mode-group multiplexed transmission over a graded-index ring-core fiber based on receive diversity and maximal ratio combining. Optics Express, 2018, 26, 4243.	3.4	52
22	On-chip switchable radially and azimuthally polarized vortex beam generation. Optics Letters, 2018, 43, 1263.	3.3	28
23	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.	3.3	111
24	Spiral Transformation for High-Resolution and Efficient Sorting of Optical Vortex Modes. Physical Review Letters, 2018, 120, 193904.	7.8	143
25	Mode Division Multiplexing Based on Ring Core Optical Fibers. IEEE Journal of Quantum Electronics, 2018, 54, 1-18.	1.9	32
26	4 OAM x 4 WDM Optical Switching Based on an Innovative Integrated Tunable OAM Multiplexer. , 2018, , .		12
27	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
28	High-resolution and compact vortex mode sorters based on a spiral transformation. , 2018, , .		0
29	Strategies and resources of mode-division-multiplexed optical fibre transmission based on LP and orbital angular momentum modes. , 2017, , .		0
30	The use of KnockOut serum replacement (KSR) in three dimensional rat testicular cells co-culture model: An improved male reproductive toxicity testing system. Food and Chemical Toxicology, 2017, 106, 487-495.	3.6	26
31	Tunable Orbital Angular Momentum (OAM) Conversion on 100Gb/s Real Data Traffic by Exploiting Concentric Waveguide Emitters. , 2017, , .		0
32	Cascaded metasurface structures. , 2017, , .		1
33	Orbital angular momentum assisted spin-directional coupling. , 2017, , .		0
34	Scalable Orbital Angular Momentum Mode-Division-Multiplexed Transmission over 10-km Graded-Index Ring-Core Fiber. , 2017, , .		1
35	Characterizing a 14x14 OAM mode transfer matrix of a ring-core fiber based on quadrature phase-shift interference. Optics Letters, 2017, 42, 1257.	3.3	9
36	Random Degenerate-Mode-Mixing Independent OAM Mode-Group (De)multiplexing over a Graded-Index Ring-Core Fiber. , 2017, , .		0

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37	Generation of vectorial vortex beams with switchable radial and azimuthal polarizations. , 2017, , .		0
38	3.36-Tbit/s OAM and Wavelength Multiplexed Transmission over an Inverse-Parabolic Graded Index Fiber. , 2017, , .		6
39	Direct generation of orbital angular momentum beams by integrating all-dielectric metasurface to vertical-cavity surface-emitting laser. , 2017, , .		3
40	Scalable Mode Division Multiplexing using Orbital Angular Momentum Mode Groups in Ring Core Fibres. , 2017, , .		0
41	Monolithic integrated optical vortex sorter based on cascaded metasurface structures. , 2017, , .		1
42	Integrated optical vortex beam receivers. Optics Express, 2016, 24, 28529.	3.4	14
43	Manipulating optical vortices using integrated photonics. Frontiers of Optoelectronics, 2016, 9, 194-205.	3.7	5
44	A coaxially integrated photonic orbital angular momentum beam multiplexer. , 2016, , .		1
45	Characterizing a $10 \times 10$ OAM propagation matrix of few-mode fiber by a dual-interference pattern method. , 2016, , .		0
46	Pattern manipulation via on-chip phase modulation between orbital angular momentum beams. Applied Physics Letters, 2015, 107, 051102.	3.3	9
47	Orbital angular momentum vertical-cavity surface-emitting lasers. Optica, 2015, 2, 547.	9.3	108
48	Orbital angular momentum mode-demultiplexing scheme with partial angular receiving aperture. Optics Express, 2015, 23, 12251.	3.4	57
49	Integrated Optical Vortex Vertical-Cavity Surface-Emitting Lasers. , 2015, , .		1
50	Measuring the angular emission of optical vortex beams from integrated devices. , 2014, , .		0
51	Spin and orbital angular momentum and their conversion in cylindrical vector vortices. Optics Letters, 2014, 39, 4435.	3.3	37
52	Fast electrical switching of orbital angular momentum modes using ultra-compact integrated vortex emitters. Nature Communications, 2014, 5, 4856.	12.8	149
53	Actively reconfigurable compact vortex beam emitters. , 2014, , .		0
54	On-chip Electrical Modulation of Phase Shift between Optical Vortices with Opposite Topological Charge. , 2014, , .		1

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55	Fast Switching of Optical Vortex Beam Mode Orders Generated Using a Fully Integrated SOI Device. , 2014, , .		0
56	Coupled Mode Analysis of Angular Grating-Based Optical Vortex Beam Emitters. , 2014, , .		1
57	A numerical study of UTC-PD structures with beryllium as the p-dopant. , 2013, , .		0
58	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
59	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
60	Theoretical model for angular grating-based integrated optical vortex beam emitters. Optics Letters, 2013, 38, 1343.	3.3	49
61	Slow-light optical buffers based on a ring resonator and an OFDM transmitter. , 2012, , .		0
62	Stable Optical Frequency-Locked Multicarriers Generation by Double Recirculating Frequency Shifter Loops for Tb/s Communication. Journal of Lightwave Technology, 2012, 30, 3938-3945.	4.6	37
63	Integrated Compact Optical Vortex Beam Emitters. Science, 2012, 338, 363-366.	12.6	773
64	Companding transform for PAPR reduction in coherent optical OFDM system. , 2012, , .		7
65	Generation of Flat and Stable Multi-carriers based on Only Integrated IQ Modulator and its Implementation for 112Gb/s PM-QPSK Transmitter. , 2012, , .		2
66	Generation of coherent and frequency-lock multi-carriers using cascaded phase modulators and recirculating frequency shifter for Tb/s optical communication. Optics Express, 2011, 19, 12891.	3.4	54
67	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
68	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
69	Frequency estimation for optical coherent MSK system. Proceedings of SPIE, 2010, , .	0.8	1
70	Coherent detection of 40-Gb/s optical minimum-shift keying modulation. Proceedings of SPIE, 2010, , .	0.8	0
71	The theoretical and numerical models of the novel and fast tunable semiconductor ring laser. , 2010, , .		0
72	Coherent detection of 40-Gb/s optical minimum-shift keying modulation. , 2010, , .		0

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73	InP-based micro-disc lasers using non-concentric hole as mode control and light extraction mechanism. , 2010, , .		0
74	A flexible bandwidth scheduling scheme based on three dimensional divisions multiplexing of MSK-OFDM for passive optical network. , 2010, , .		0
75	Frequency estimation for optical coherent MSK system. , 2010, , .		0
76	The theoretical and numerical models of the novel and fast tunable semiconductor ring laser. , 2010, , .		0
77	Novel orthogonal modulation format DRZ-FSK/DPSK for high-speed long-haul optical communication. Chinese Optics Letters, 2010, 8, 852-855.	2.9	1
78	A Novel Return-to-Zero FSK Format for 40-Gb/s Transmission System Applications. Journal of Lightwave Technology, 2010, 28, 1770-1782.	4.6	31
79	High spectral quality defect-coupled 1550nm micro-disc lasers. , 2010, , .		0
80	Frequency estimation for optical coherent MSK system. , 2010, , .		0