Wei Zhang

List of Publications by Year in descending order

55 papers	1,667 citations	471509 17 h-index	289244 40 g-index
56 all docs	56 docs citations	56 times ranked	1442 citing authors

#	Article	IF	Citations
1	Quantum Secure Direct Communication with Quantum Memory. Physical Review Letters, 2017, 118, 220501.	7.8	460
2	Experimental long-distance quantum secure direct communication. Science Bulletin, 2017, 62, 1519-1524.	9.0	208
3	Quantum teleportation with independent sources and prior entanglement distribution over a network. Nature Photonics, 2016, 10, 671-675.	31.4	152
4	Integrated Cherenkov radiation emitter eliminating the electron velocity threshold. Nature Photonics, 2017, 11, 289-292.	31.4	137
5	Chip-scale broadband spectroscopic chemical sensing using an integrated supercontinuum source in a chalcogenide glass waveguide. Photonics Research, 2018, 6, 506.	7.0	78
6	Dynamic brain spectrum acquired by a real-time ultraspectral imaging chip with reconfigurable metasurfaces. Optica, 2022, 9, 461.	9.3	65
7	Ultraspectral Imaging Based on Metasurfaces with Freeform Shaped Metaâ€Atoms. Laser and Photonics Reviews, 2022, 16, .	8.7	40
8	Measuring the complex orbital angular momentum spectrum of light with a mode-matching method. Optics Letters, 2017, 42, 1080.	3.3	33
9	Optomechanical crystal nanobeam cavity with high optomechanical coupling rate. Journal of Optics (United Kingdom), 2015, 17, 045001.	2.2	31
10	Deep-ultraviolet Smithâ€“Purcell radiation. Optica, 2019, 6, 592.	9.3	30
11	Polarization-entangled Bell states generation based on birefringence in high nonlinear microstructure fiber at 15 Î¼m. Optics Letters, 2009, 34, 2706.	3.3	28
12	Energy-time entanglement generation in optical fibers under CW pumping. Optics Express, 2014, 22, 359.	3.4	26
13	Energy-time entanglement-based dispersive optics quantum key distribution over optical fibers of 20â€‰km. Applied Physics Letters, 2019, 114, .	3.3	25
14	An entanglement-based quantum network based on symmetric dispersive optics quantum key distribution. APL Photonics, 2020, 5, .	5.7	25
15	A Compound Phase-Modulated Beam Splitter to Distinguish Both Spin and Orbital Angular Momentum. ACS Photonics, 2020, 7, 212-220.	6.6	24
16	40-user fully connected entanglement-based quantum key distribution network without trusted node. PhotoniX, 2022, 3, .	13.5	21
17	Noise performance comparison of 15 Î¼m correlated photon pair generation in different fibers. Optics Express, 2010, 18, 17114.	3.4	18
18	Polarization entanglement generation at 15ÂÎ¼m based on walk-off effect due to fiber birefringence. Optics Letters, 2012, 37, 1679.	3.3	17

#	Article	IF	Citations
19	Generation of hyper-entanglement in polarization/energy-time and discrete-frequency/energy-time in optical fibers. Scientific Reports, 2015, 5, 9195.	3.3	15
20	Vortex Smithâ€“Purcell radiation generation with holographic grating. Photonics Research, 2020, 8, 1309.	7.0	15
21	15ÂÎ¼m polarization entanglement generation based on birefringence in silicon wire waveguides. Optics Letters, 2013, 38, 2873.	3.3	14
22	Phonon lasing in a hetero optomechanical crystal cavity. Photonics Research, 2021, 9, 937.	7.0	13
23	Polarization-controllably launching localized cosine-Gauss beam with spatially varied metallic nano-apertures. Optics Express, 2019, 27, 22053.	3.4	13
24	Generation of 15â€‰â€‰Î¼m discrete frequency-entangled two-photon state in polarization-maintaining fibers. Optics Letters, 2014, 39, 2109.	3.3	11
25	High-quality chalcogenide glass waveguide fabrication by hot melt smoothing and micro-trench filling. Applied Physics Express, 2016, 9, 052201.	2.4	11
26	Properties of optical fiber based synchronous heralded single photon sources at 1.5 Î¼m. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2274-2277.	2.1	10
27	Fiber-based frequency-degenerate polarization entangled photon pair sources for information encoding. Optics Express, 2016, 24, 25619.	3.4	10
28	Quantum secure ghost imaging. Physical Review A, 2018, 98, .	2.5	10
29	A polarization maintaining scheme for 1.5 Î¼m polarization entangled photon pair generation in optical fibers. European Physical Journal D, 2013, 67, 1.	1.3	9
30	Frequency-entanglement preparation based on the coherent manipulation of frequency nondegenerate energy-time entangled state. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 1801.	2.1	9
31	Universal linear optical operations on discrete phase-coherent spatial modes with a fixed and non-cascaded setup. Journal of Optics (United Kingdom), 2019, 21, 104003.	2.2	9
32	Influences of pump wavelength and environment temperature on the dual-peaked Brillouin property of a small-core microstructure fiber. Optics Letters, 2007, 32, 2303.	3.3	8
33	True Single-Photon Stimulated Four-Wave Mixing. ACS Photonics, 2017, 4, 746-753.	6.6	8
34	Programmable Coherent Linear Quantum Operations with High-Dimensional Optical Spatial Modes. Physical Review Applied, 2020, 14, .	3.8	8
35	Stimulated Brillouin scattering slow light in high nonlinearity silica microstructure fiber. Optical Fiber Technology, 2009, 15, 1-4.	2.7	7
36	All-optical image identification with programmable matrix transformation. Optics Express, 2021, 29, 26474.	3.4	7

#	Article	IF	Citations
37	Reverse-strip-structure Ge28Sb12Se60 chalcogenide glass waveguides prepared by micro-trench filling and lift-off. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 82.	2.1	7
38	Hetero-Optomechanical Crystal Zipper Cavity for Multimode Optomechanics. Photonics, 2022, 9, 78.	2.0	7
39	Measuring the orbital angular momentum spectrum with a single point detector. Optics Letters, 2018, 43, 4607.	3.3	6
40	Nonsuspended optomechanical crystal cavities using As₂S₃ chalcogenide glass. Photonics Research, 2021, 9, 893.	7.0	6
41	Acoustic longitudinal mode coupling in w-shaped Al/Ge Co-doped fibre. Chinese Physics B, 2011, 20, 104211.	1.4	5
42	Experimental demonstration of Einstein-Podolsky-Rosen entanglement in rotating coordinate space. Science Bulletin, 2020, 65, 280-285.	9.0	5
43	Generation and dynamic manipulation of frequency degenerate polarization entangled Bell states by a silicon quantum photonic circuit. , 2022, 1, 100001.		5
44	Hybrid waveguide scheme for silicon-based quantum photonic circuits with quantum light sources. Photonics Research, 2020, 8, 235.	7.0	4
45	High-Quality Fiber-Based Heralded Single-Photon Source at 1.5 Î¼m. Chinese Physics Letters, 2012, 29, 054215.	3.3	3
46	Measurement-Device-Independent Quantum Key Distribution of Frequency-Nondegenerate Photons. Physical Review Applied, 2022, 17, .	3.8	3
47	Experimental device-independent tests of classical and quantum entropy. Physical Review A, 2016, 94, .	2.5	2
48	Two-photon interferences on a silica-on-silicon chip with telecom-band photon pairs generated in a fiber. Optics Express, 2018, 26, 29471.	3.4	2
49	Impact of fiber dispersion on the performance of entanglement-based dispersive optics quantum key distribution. Journal of Electronic Science and Technology, 2021, 19, 100119.	3.6	2
50	Generating heralded single photons with a switchable orbital angular momentum mode. Photonics Research, 2021, 9, 1865.	7.0	2
51	Spatial Quantum Beating of Adjustable Biphoton Frequency Comb With High-Dimensional Frequency-Bin Entanglement. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	1
52	Nonlinear optical properties of chalcogenide glass waveguides fabricated by hot melt smoothing and micro-trench filling. Applied Physics Express, 2020, 13, 042005.	2.4	1
53	Fully Connected Entanglement-based Quantum Communication Network without Trusted Node. , 2021, , .		1
54	Properties of high quality heralded single photon source based on fibers at 1.5 Î¼m. Proceedings of SPIE, 2012, , .	0.8	0

#	Article	IF	Citations
55	Photothermal effect in graphene-coated microsphere resonators. Applied Physics Express, 2018, 11, 072503.	2.4	0