Bao-Sen Shi

List of Publications by Year
in descending order

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79 papers	3,059 citations	186265 28 h-index	161849 54 g-index
79 all docs	79 docs citations	79 times ranked	1870 citing authors

#	Article	IF	Citations
1	Quantum Secure Direct Communication with Quantum Memory. Physical Review Letters, 2017, 118, 220501.	7.8	460
2	Quantum Storage of Orbital Angular Momentum Entanglement in an Atomic Ensemble. Physical Review Letters, 2015, 114, 050502.	7.8	214
3	Teleportation of an unknown state by W state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 296, 161-164.	2.1	199
4	Single-photon-level quantum image memory based on cold atomic ensembles. Nature Communications, 2013, 4, 2527.	12.8	179
5	Probabilistic teleportation of two-particle entangled state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 268, 161-164.	2.1	171
6	Raman quantum memory of photonic polarized entanglement. Nature Photonics, 2015, 9, 332-338.	31.4	115
7	Roadmap on quantum light spectroscopy. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 072002.	1.5	101
8	Generation of a pulsed polarization entangled photon pair using a Sagnac interferometer. Physical Review A, 2004, 69, .	2.5	88
9	Orbital angular momentum photonic quantum interface. Light: Science and Applications, 2016, 5, e16019-e16019.	16.6	82
10	Remote state preparation of an entangled state. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, 380-382.	1.4	80
11	Generation of non-classical correlated photon pairs via a ladder-type atomic configuration: theory and experiment. Optics Express, 2012, 20, 11433.	3.4	73
12	Entanglement of the orbital angular momentum states of the photon pairs generated in a hot atomic ensemble. Physical Review A, 2008, 78, .	2.5	70
13	Orbital Angular Momentum-Entanglement Frequency Transducer. Physical Review Letters, 2016, 117, 103601.	7.8	70
14	High-dimensional entanglement between distant atomic-ensemble memories. Light: Science and Applications, 2016, 5, e16157-e16157.	16.6	64
15	Orbital angular momentum light frequency conversion and interference with quasi-phase matching crystals. Optics Express, 2014, 22, 20298.	3.4	62
16	Sum frequency generation with two orbital angular momentum carrying laser beams. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 407.	2.1	60
17	Quantum key distribution and quantum authentication based on entangled state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 281, 83-87.	2.1	55
18	CW-pumped telecom band polarization entangled photon pair generation in a Sagnac interferometer. Optics Express, 2015, 23, 28792.	3.4	51

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19	Optical vortex beam based optical fan for high-precision optical measurements and optical switching. Optics Letters, 2014, 39, 5098.	3.3	46
20	Hybrid-cascaded generation of tripartite telecom photons using an atomic ensemble and a nonlinear waveguide. Optica, 2015, 2, 642.	9.3	46
21	On-Chip Multiplexed Multiple Entanglement Sources in a Single Silicon Nanowire. Physical Review Applied, 2017, 7, .	3.8	37
22	Quantum cryptography based on interaction-free measurement. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 256, 109-112.	2.1	34
23	Light storage based on four-wave mixing and electromagnetically induced transparency in cold atoms. Physical Review A, 2013, 87, .	2.5	32
24	Non-degenerated nonclassical photon pairs in a hot atomic ensemble. Optics Express, 2008, 16, 21708.	3.4	30
25	Multiple image storage and frequency conversion in a cold atomic ensemble. Physical Review A, 2013, 87, .	2.5	29
26	Highly efficient second harmonic generation of a light carrying orbital angular momentum in an external cavity. Optics Express, 2014, 22, 23673.	3.4	29
27	Multiplexed entangled photon-pair sources for all-fiber quantum networks. Physical Review A, 2016, 94, .	2.5	29
28	Radial modal transitions of Laguerre-Gauss modes during parametric up-conversion: Towards the full-field selection rule of spatial modes. Physical Review A, 2020, 101, .	2.5	29
29	Conformal frequency conversion for arbitrary vectorial structured light. Optica, 2022, 9, 187.	9.3	27
30	Observation of time correlation function of multimode two-photon pairs on a rubidium D_2 line. Optics Letters, 2008, 33, 2191.	3.3	26
31	Multimode image memory based on a cold atomic ensemble. Physical Review A, 2013, 87, .	2.5	26
32	Spatial-Polarization-Independent Parametric Up-Conversion of Vectorially Structured Light. Physical Review Applied, 2020, 13, .	3.8	26
33	Cavity-enhanced bright photon pairs at telecom wavelengths with a triple-resonance configuration. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 128.	2.1	25
34	Toward high-dimensional-state quantum memory in a cold atomic ensemble. Physical Review A, 2014, 90, .	2.5	24
35	Realization of a Two-Dimensional Magneto-optical Trap with a High Optical Depth. Chinese Physics Letters, 2012, 29, 024205.	3.3	23
36	Nonlinear frequency conversion and manipulation of vector beams in a Sagnac loop. Optics Letters, 2019, 44, 219.	3.3	22

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37	Image transfer through two sequential four-wave-mixing processes in hot atomic vapor. Physical Review A, 2012, 85, .	2.5	21
38	Quantum storage of orbital angular momentum entanglement in cold atomic ensembles. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 032004.	1.5	20
39	On-chip generation of time-and wavelength-division multiplexed multiple time-bin entanglement. Optics Express, 2018, 26, 12912.	3.4	19
40	Experimental up-conversion of images. Physical Review A, 2012, 86, .	2.5	18
41	Fragmentation of twisted light in photonâ€“phonon nonlinear propagation. Applied Physics Letters, 2018, 112, .	3.3	18
42	Superresolving Phase Measurement with Short-Wavelength NOON States by Quantum Frequency Up-Conversion. Physical Review Applied, 2017, 7, .	3.8	17
43	Generation of narrow-band photon pairs for quantum memory. Optics Communications, 2010, 283, 2974-2977.	2.1	15
44	Reply to â€œComment on: Teleportation of an unknown state by WÂstateâ€• Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 300, 538-539.	2.1	14
45	Classical to quantum optical network link for orbital angular momentum-carrying light. Optics Express, 2015, 23, 18435.	3.4	14
46	Coherent frequency bridge between visible and telecommunications band for vortex light. Optics Express, 2017, 25, 24290.	3.4	13
47	Dynamic tomography of the spin-orbit coupling in nonlinear optics. Physical Review A, 2019, 99, .	2.5	13
48	Storing a single photon as a spin wave entangled with a flying photon in the telecommunication bandwidth. Physical Review A, 2016, 93, .	2.5	12
49	Actively switchable nondegenerate polarization-entangled photon-pair distribution in dense wave-division multiplexing. Physical Review A, 2013, 87, .	2.5	11
50	Dynamic mode evolution and phase transition of twisted light in nonlinear process. Journal of Modern Optics, 2016, 63, 2271-2278.	1.3	11
51	Two-color hyper-entangled photon pairs generation in a cold ^85Rb atomic ensemble. Optics Express, 2017, 25, 10145.	3.4	11
52	An ultra-broadband continuously-tunable polarization-entangled photon-pair source covering the C+L telecom bands based on a single type-II PPKTP crystal. Journal of Modern Optics, 2013, 60, 720-725.	1.3	9
53	Two-color ghost interference with photon pairs generated in hot atoms. AIP Advances, 2012, 2, 032177.	1.3	8
54	Non-Classical Correlated Photon Pairs Generation via Cascade Transition of 5 S 1/2 â€“5 P 3/2 â€“5 D 5/2 in a Hot 85 Rb Atomic Vapor. Chinese Physics Letters, 2014, 31, 064208.	3.3	7

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55	Frequency up-conversion of an infrared image via a flat-top pump beam. Optics Communications, 2020, 460, 125143.	2.1	7
56	Entangled qutrits generated in four-wave mixing without post-selection. Optics Express, 2020, 28, 11538.	3.4	7
57	Frequency doubling of twisted light independent of the integer topological charge. OSA Continuum, 2019, 2, 470.	1.8	7
58	Slow light via four-wave mixing in a hot rubidium vapour. Chinese Physics B, 2013, 22, 114203.	1.4	6
59	Broad spiral bandwidth of orbital angular momentum interface between photon and memory. Communications Physics, 2019, 2, .	5.3	5
60	Tailoring Nonlinear Processes of Orbital Angular Momentum with Dispersion Engineering in Vortex Fibers. Physical Review Applied, 2019, 12, .	3.8	5
61	Experimental demonstration of Einstein-Podolsky-Rosen entanglement in rotating coordinate space. Science Bulletin, 2020, 65, 280-285.	9.0	5
62	Quantum frequency conversion for multiplexed entangled states generated from micro-ring silicon chip. Optics Express, 2018, 26, 28429.	3.4	5
63	Efficient infrared upconversion via a ladder-type atomic configuration. Journal of Modern Optics, 2012, 59, 1768-1771.	1.3	4
64	Einstein-Podolsky-Rosen entanglement between separated atomic ensembles. Physical Review A, 2019, 100, .	2.5	4
65	Fourth-harmonic generation of orbital angular momentum light with cascaded quasi-phase matching crystals. Optics Letters, 2021, 46, 158.	3.3	4
66	Advantages of the frequency-conversion technique in quantum interference. Physical Review A, 2022, 105, .	2.5	4
67	Extra-cavity-enhanced difference-frequency generation at 163â€‰â€‰Âµm. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1367.	2.1	3
68	Two-Photon Atomic Coherence Effect of Transition 5 S _{1/2} â^'5 P _{3/2} â^'4 D _{5/2} (4 D _{3/2}) of ⁸⁵ Rb atoms. Chinese Physics Letters, 2012, 29, 024202.	3.3	2
69	Synchronized resistance of inhomogeneous magnetically induced dephasing of an image stored in a cold atomic ensemble. Physical Review A, 2021, 103, .	2.5	2
70	Raman protocol-based quantum memories. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 034203.	0.5	2
71	Non-destructive splitter of twisted light based on modes splitting in a ring cavity. Optics Express, 2016, 24, 2166.	3.4	1
72	Quantum interface for high-dimensional quantum states encoded in an orbital angular momentum space. Fundamental Research, 2021, 1, 88-90.	3.3	1

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73	Quantum frequency up-conversion of heralded single photon orbital angular momentum states. , 2016, , .		0
74	Quantum frequency up-conversion of orbital angular momentum entanglement states. , 2017, , .		0
75	Quantum frequency up-conversion of orbital angular momentum entanglement states. , 2017, , .		0
76	All optical actively tunable quantum signal de-multiplexer based on sum frequency generation. , 2018, , .		0
77	Coherent frequency bridge between visible and telecommunications band for vortex light. , 2018, , .		0
78	All optical actively tunable quantum signal de-multiplexer based on sum frequency generation. , 2019, , .		0
79	Generation and Manipulation of Nonclassical Photon Sources in Nonlinear Processes. , 0, , .		0