

# Beating the channel capacity limit for linear photonic su

Nature Physics

4, 282-286

DOI: [10.1038/nphys919](https://doi.org/10.1038/nphys919)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Advances in optical angular momentum. Laser and Photonics Reviews, 2008, 2, 299-313.	4.4	792
4	Breaking the communication barrier. Nature Physics, 2008, 4, 268-269.	6.5	16
5	Sorting photons of different rotational Doppler shifts (RDS) by orbital angular momentum of single-photon with spin-orbit-RDS entanglement. Optics Express, 2008, 16, 14629.	1.7	14
6	Experimental investigation of the dynamics of entanglement: Sudden death, complementarity, and continuous monitoring of the environment. Physical Review A, 2008, 78, .	1.0	219
7	Hyperentanglement witness. Physical Review A, 2008, 78, .	1.0	10
8	Hyperentanglement of two photons in three degrees of freedom. Physical Review A, 2009, 79, .	1.0	125
9	Environment-induced entanglement with a single photon. Physical Review A, 2009, 80, .	1.0	32
10	Spectral properties of entangled photons generated via type-I frequency-nondegenerate spontaneous parametric down-conversion. Physical Review A, 2009, 80, .	1.0	15
11	Linear-optical hyperentanglement-assisted quantum error-correcting code. Physical Review A, 2009, 79, .	1.0	28
12	Multipath Entanglement of Two Photons. Physical Review Letters, 2009, 102, 153902.	2.9	104
13	Experimental violation of a Bell inequality with two different degrees of freedom of entangled particle pairs. Physical Review A, 2009, 79, .	1.0	46
14	Observation of a Nonlocal Optical Vortex. Physical Review Letters, 2009, 103, 033602.	2.9	30
15	Maximal success probabilities of linear-optical quantum gates. Physical Review A, 2009, 79, .	1.0	40
16	Natural Mode Entanglement as a Resource for Quantum Communication. Physical Review Letters, 2009, 103, 200502.	2.9	29
17	Encoding orbital angular momentum onto multiple spin states based on a Huffman tree. New Journal of Physics, 2009, 11, 103002.	1.2	7
18	FAULT TOLERANT QUANTUM KEY DISTRIBUTION BASED ON QUANTUM DENSE CODING WITH COLLECTIVE NOISE. International Journal of Quantum Information, 2009, 07, 1479-1489.	0.6	62
19	Entanglement detection with bounded reference frames. New Journal of Physics, 2009, 11, 123007.	1.2	12
20	NEW EXPERIMENTAL PROTOCOL OF TELEPORTING AN ARBITRARY SINGLE-QUBIT STATE BY USING HYPERENTANGLED PHOTON PAIRS. International Journal of Quantum Information, 2009, 07, 1515-1520.	0.6	1

#	ARTICLE	IF	CITATIONS
21	EFFICIENT POLARIZATION ENTANGLEMENT GENERATION FROM SPATIALLY CORRELATED PHOTONS. International Journal of Quantum Information, 2009, 07, 795-800.	0.6	0
22	Efficient faithful qubit transmission with frequency degree of freedom. Optics Communications, 2009, 282, 4025-4027.	1.0	20
23	Entanglement detection. Physics Reports, 2009, 474, 1-75.	10.3	1,668
24	Superdense coding with single-particle entanglement. Journal of Russian Laser Research, 2009, 30, 427-434.	0.3	0
25	Optimal quantum cloning of orbital angular momentum photon qubits through Hongâ€“Ouâ€“Mandel coalescence. Nature Photonics, 2009, 3, 720-723.	15.6	203
26	Efficient entanglement purification for doubly entangled photon state. Science in China Series D: Earth Sciences, 2009, 52, 3464-3467.	0.9	19
27	Electrically tunable and spin-dependent integer or noninteger orbital angular momentum generator. Optics Letters, 2009, 34, 178.	1.7	19
28	Increasing Shannon dimensionality by hyperentanglement of spin and fractional orbital angular momentum. Optics Letters, 2009, 34, 1855.	1.7	25
29	Two-dimensional all-optical spatial light modulation with high speed in coherent media. Optics Letters, 2009, 34, 1930.	1.7	12
30	Polarization control of single photon quantum orbital angular momentum states. Optics Express, 2009, 17, 18745.	1.7	74
31	Quantum Information Transfer from Spin to Orbital Angular Momentum of Photons. Physical Review Letters, 2009, 103, 013601.	2.9	323
32	Quantum interference by coherence transfer from spin to orbital angular momentum of photons. Proceedings of SPIE, 2009, , .	0.8	1
33	Reference-frame-independent quantum key distribution. Physical Review A, 2010, 82, .	1.0	163
34	Spatial correlations in parametric down-conversion. Physics Reports, 2010, 495, 87-139.	10.3	273
35	Information transfer using a single particle path-spin hybrid entangled state. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1121-1125.	0.9	19
36	Entangled photons and quantum communication. Physics Reports, 2010, 497, 1-40.	10.3	75
37	Production and application of electron vortex beams. Nature, 2010, 467, 301-304.	13.7	713
38	Experimental demonstration of a hyper-entangled ten-qubit SchrÃ¶dinger cat state. Nature Physics, 2010, 6, 331-335.	6.5	282

#	ARTICLE	IF	CITATIONS
39	Remote Preparation of Single-Photon $\hat{\rho}$ -Hybrid Entangled and Vector-Polarization States. Physical Review Letters, 2010, 105, 030407.	2.9	239
40	Location-dependent communications using quantum entanglement. Physical Review A, 2010, 81, .	1.0	57
41	Complete hyperentangled-Bell-state analysis for quantum communication. Physical Review A, 2010, 82, .	1.0	304
42	Spin-orbit hybrid entanglement of photons and quantum contextuality. Physical Review A, 2010, 82, .	1.0	145
43	Deterministic entanglement purification and complete nonlocal Bell-state analysis with hyperentanglement. Physical Review A, 2010, 81, .	1.0	340
44	Quantum Location Verification in Noisy Channels. , 2010, , .		9
45	Verifying Genuine High-Order Entanglement. Physical Review Letters, 2010, 105, 210504.	2.9	25
46	CONDITIONS FOR BIPARTITE GENERAL BELL STATES. International Journal of Quantum Information, 2010, 08, 1213-1217.	0.6	2
47	Efficient Sorting of Orbital Angular Momentum States of Light. Physical Review Letters, 2010, 105, 153601.	2.9	833
48	Generation of hybrid polarization-orbital angular momentum entangled states. Optics Express, 2010, 18, 18243.	1.7	54
49	Phase control of a path-entangled photon state by a deformable membrane mirror. Journal of the Optical Society of America B: Optical Physics, 2010, 27, A175.	0.9	8
50	Swapping path-spin intraparticle entanglement onto spin-spin interparticle entanglement. Europhysics Letters, 2010, 89, 10005.	0.7	23
51	Spin-to-orbital conversion of the angular momentum of light and its classical and quantum applications. Journal of Optics (United Kingdom), 2011, 13, 064001.	1.0	394
52	Robust interferometer for the routing of light beams carrying orbital angular momentum. New Journal of Physics, 2011, 13, 093014.	1.2	52
53	Atomic scale electron vortices for nanoresearch. Applied Physics Letters, 2011, 99, .	1.5	97
54	High-Capacity Quantum Secure Direct Communication Based on Quantum Hyperdense Coding with Hyperentanglement. Chinese Physics Letters, 2011, 28, 040305.	1.3	94
55	A two-step quantum secure direct communication protocol with hyperentanglement. Chinese Physics B, 2011, 20, 100309.	0.7	106
56	Experimental verification of photon angular momentum and vorticity with radio techniques. Applied Physics Letters, 2011, 99, .	1.5	254

#	ARTICLE	IF	CITATIONS
57	Entangling Different Degrees of Freedom by Quadrature Squeezing Cylindrically Polarized Modes. Physical Review Letters, 2011, 106, 060502.	2.9	111
58	Integrated photonic quantum gates for polarization qubits. Nature Communications, 2011, 2, 566.	5.8	251
59	Violation of a Bell inequality in two-dimensional spin-orbit hypoentangled subspaces. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2915.	0.9	1
60	A compact orbital angular momentum spectrometer using quantum zero interrogation. Optics Express, 2011, 19, 11615.	1.7	7
61	Poynting vector and orbital angular momentum density of superpositions of Bessel beams. Optics Express, 2011, 19, 16760.	1.7	77
62	Nonlinearity in single photon detection: modeling and quantum tomography. Optics Express, 2011, 19, 21305.	1.7	37
63	Generation and Applications of n-Qubit Hyperentangled Photon States. Advances in Atomic, Molecular and Optical Physics, 2011, 60, 291-314.	2.3	0
64	Optical hybrid approaches to quantum information. Laser and Photonics Reviews, 2011, 5, 167-200.	4.4	99
65	High-efficient quantum key distribution based on hybrid entanglement. Optics Communications, 2011, 284, 527-530.	1.0	59
66	High-Dimensional Quantum Key Distribution using Orbital Angular Momentum States of Light. , 2011, , .		0
67	Loss-resistant state teleportation and entanglement swapping using a quantum-dot spin in an optical microcavity. Physical Review B, 2011, 83, .	1.1	150
68	Distinguishability of hyperentangled Bell states by linear evolution and local projective measurement. Physical Review A, 2011, 84, .	1.0	35
69	Creating multiphoton-polarization bound entangled states. Physical Review A, 2011, 83, .	1.0	3
70	High-dimensional Bell test for a continuous-variable state in phase space and its robustness to detection inefficiency. Physical Review A, 2011, 83, .	1.0	2
71	Near-Deterministic Discrimination of All Bell States with Linear Optics. Physical Review Letters, 2011, 107, 080403.	2.9	12
72	ENTANGLEMENT AND SUPERDENSE CODING WITH LINEAR OPTICS. International Journal of Quantum Information, 2011, 09, 1737-1744.	0.6	3
73	DETERMINISTIC QUANTUM DENSE CODING WITH A GENUINE MULTIPARTITE ENTANGLEMENT IN LINEAR OPTICAL SYSTEM. International Journal of Quantum Information, 2011, 09, 1291-1298.	0.6	1
74	Quantum Secure Direct Communication by Using Three-Dimensional Hyperentanglement. Communications in Theoretical Physics, 2011, 56, 831-836.	1.1	48

#	ARTICLE	IF	CITATIONS
75	Quantum key distribution in a high-dimensional state space: exploiting the transverse degree of freedom of the photon. Proceedings of SPIE, 2011, , .	0.8	25
76	Quantum Fourier Transform and Phase Estimation in Qudit System. Communications in Theoretical Physics, 2011, 55, 790-794.	1.1	26
77	Bidirectional Quantum Secure Direct Communication Network Protocol with Hyperentanglement. Communications in Theoretical Physics, 2011, 56, 659-663.	1.1	49
78	Intracavity vortex beam generation. Proceedings of SPIE, 2011, , .	0.8	1
79	Increasing the orbital angular momentum bandwidth of entangled photons. , 2012, , .		0
80	Complete hyperentangled-Bell-state analysis for photon systems assisted by quantum-dot spins in optical microcavities. Optics Express, 2012, 20, 24664.	1.7	153
81	Orbital angular momentum for quantum information processing. , 2012, , .		5
82	Efficient hyperentangled Greenbergerâ€“Horneâ€“Zeilinger states analysis with cross-Kerr nonlinearity. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1029.	0.9	44
83	Refractive elements for the measurement of the orbital angular momentum of a single photon. Optics Express, 2012, 20, 2110.	1.7	214
84	Quantitative measurement of the orbital angular momentum density of light. Applied Optics, 2012, 51, 823.	0.9	41
85	Multidimensional quantum information based on single-photon temporal wavepackets. Optics Express, 2012, 20, 29174.	1.7	18
86	Higher Order Pancharatnam-Berry Phase and the Angular Momentum of Light. Physical Review Letters, 2012, 108, 190401.	2.9	216
87	Generation and complete analysis of the hyperentangled Bell state for photons assisted by quantum-dot spins in optical microcavities. Physical Review A, 2012, 86, .	1.0	147
88	Comblike entangled spectrum for composite spin-orbit modes from hyperconcentration. Physical Review A, 2012, 85, .	1.0	7
89	Scalable generation and characterization of a four-photon twelve-qubit hyperentangled state. Journal of Modern Optics, 2012, 59, 611-617.	0.6	7
90	Preparation of four-dimensional entangled states in separate cavities via adiabatic passage. Physica Scripta, 2012, 86, 065002.	1.2	1
91	Quantum Key Distribution over Space-Space Laser Communication Links. , 2012, , .		3
92	High-Capacity Three-Party Quantum Secret Sharing With Hyperentanglement. International Journal of Theoretical Physics, 2012, 51, 3559-3566.	0.5	19

#	ARTICLE	IF	CITATIONS
93	Experimental Observation of Impossible-to-Beat Quantum Advantage on a Hybrid Photonic System. Physical Review Letters, 2012, 108, 090501.	2.9	28
94	Increasing the dimension in high-dimensional two-photon orbital angular momentum entanglement. Physical Review A, 2012, 86, .	1.0	90
95	Generalized Hermiteâ€“Gauss decomposition of the two-photon state produced by spontaneous parametric down conversion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 165502.	0.6	20
96	Compact generation of polarization-frequency hyperentangled photon pairs by using quasi-phase-matched lithium niobate. Optics Communications, 2012, 285, 5549-5553.	1.0	6
97	The efficient sorting of light's orbital angular momentum for optical communications. , 2012, , .		7
98	From stationary annular rings to rotating Bessel beams. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 567.	0.8	34
99	Quantum entanglement of orbital angular momentum. , 0, , 385-406.		1
100	Manipulation of Photonic Orbital Angular Momentum for Quantum Information Processing. , 2012, , .		3
101	An experimentalist's introduction to orbital angular momentum for quantum optics. , 0, , 314-329.		0
102	Multiphoton entanglement and interferometry. Reviews of Modern Physics, 2012, 84, 777-838.	16.4	1,007
103	Terabit free-space data transmission employing orbital angular momentum multiplexing. Nature Photonics, 2012, 6, 488-496.	15.6	3,471
104	Measurement of the Entanglement between Photonic Spatial Modes in Optical Fibers. Physical Review Letters, 2012, 109, 020502.	2.9	28
105	Tuning the optical orbital angular momentum of a focused Gaussian beam in an optical superlattice under the electro-optic effect. Journal of the Korean Physical Society, 2012, 60, 1274-1277.	0.3	0
106	Experimental implementation of higher dimensional timeâ€“energy entanglement. Applied Physics B: Lasers and Optics, 2012, 106, 543-550.	1.1	34
107	Maximally-dense-coding-capable quantum states. Physical Review A, 2013, 87, .	1.0	22
108	Hyperentanglement concentration for two-photon four-qubit systems with linear optics. Physical Review A, 2013, 88, .	1.0	168
109	Linear Optical Quantum Computing in a Single Spatial Mode. Physical Review Letters, 2013, 111, 150501.	2.9	112
110	Efficient separation of the orbital angular momentum eigenstates of light. Nature Communications, 2013, 4, 2781.	5.8	364

#	ARTICLE	IF	CITATIONS
111	Genuine multiparty quantum entanglement suppresses multipoint classical information transmission. <i>Physical Review A</i> , 2013, 88, .	1.0	4
112	Hyperentanglement purification and concentration assisted by diamond NV centers inside photonic crystal cavities. <i>Laser Physics Letters</i> , 2013, 10, 115201.	0.6	110
113	High-Capacity Quantum Secret Sharing with Hyperdense Coding Assisted by Hyperentangled Photon Pairs. <i>International Journal of Theoretical Physics</i> , 2013, 52, 2245-2254.	0.5	8
114	Photonic spatial Bell-state analysis for robust quantum secure direct communication using quantum dot-cavity systems. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	70
115	A Quantum Communication Protocol Transferring Unknown Photons Using Path-Polarization Hybrid Entanglement. <i>Chinese Physics Letters</i> , 2013, 30, 040301.	1.3	8
116	Efficient sorting of Bessel beams. <i>Optics Express</i> , 2013, 21, 165.	1.7	61
117	Hyperentanglement-Enabled Direct Characterization of Quantum Dynamics. <i>Physical Review Letters</i> , 2013, 110, 060404.	2.9	21
118	Integrated photonic orbital angular momentum devices and systems: Potentials and challenges. <i>Science China Technological Sciences</i> , 2013, 56, 579-585.	2.0	3
119	High-Capacity Three-Party Quantum Secret Sharing with Single Photons in Both the Polarization and the Spatial-Mode Degrees of Freedom. <i>International Journal of Theoretical Physics</i> , 2013, 52, 1043-1051.	0.5	26
120	Multi-Orbital-Angular-Momentum Multi-Ring Fiber for High-Density Space-Division Multiplexing. <i>IEEE Photonics Journal</i> , 2013, 5, 7101007-7101007.	1.0	89
121	Hyperconcentration for entanglement in two degrees of freedom. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2774.	0.9	13
122	Evaluating Laguerre-Gaussian beams with an invariant parameter. <i>Optics Letters</i> , 2013, 38, 3047.	1.7	6
123	Integrated multi vector vortex beam generator. <i>Optics Express</i> , 2013, 21, 16130.	1.7	47
124	Complete and deterministic analysis for spatial-polarization hyperentangled Greenberger-Horne-Zeilinger states with quantum-dot cavity systems. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2263.	0.9	12
125	Multidimensional QKD Based on Combined Orbital and Spin Angular Momenta of Photon. <i>IEEE Photonics Journal</i> , 2013, 5, 7600112-7600112.	1.0	27
126	Security of high-dimensional quantum key distribution protocols using Franson interferometers. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 104010.	0.6	50
127	On the exchange of orbital angular momentum between twisted photons and atomic electrons. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 035403.	1.0	16
128	Complete Bell-state analysis for a single-photon hybrid entangled state. <i>Chinese Physics B</i> , 2013, 22, 030314.	0.7	10



#	ARTICLE	IF	CITATIONS
129	Experimental achievement of the entanglement-assisted capacity for the depolarizing channel. Physical Review A, 2013, 87, .	1.0	12
130	Entanglement's Benefit Survives an Entanglement-Breaking Channel. Physical Review Letters, 2013, 111, 010501.	2.9	114
131	Beating the One-Half Limit of Ancilla-Free Linear Optics Bell Measurements. Physical Review Letters, 2013, 110, 260501.	2.9	45
132	Generation of Orbital Angular Momentum Bell States and Their Verification via Accessible Nonlinear Witnesses. Physical Review Letters, 2013, 111, 030402.	2.9	22
133	Rotating point spread function via pupil-phase engineering. Optics Letters, 2013, 38, 585.	1.7	64
134	A Large-alphabet Quantum Key Distribution Protocol Using Orbital Angular Momentum Entanglement. Chinese Physics Letters, 2013, 30, 060305.	1.3	14
135	Generating squeezed vacuum field with nonzero orbital angular momentum with atomic ensembles. Optics Letters, 2013, 38, 4833.	1.7	7
136	Deterministic photonic spatial-polarization hyper-controlled-not gate assisted by a quantum dot inside a one-side optical microcavity. Laser Physics Letters, 2013, 10, 095202.	0.6	101
137	Transverse phase variation of a Gaussian beam. Journal of Optics (United Kingdom), 2013, 15, 075706.	1.0	5
138	Techniques to sort Bessel beams. Proceedings of SPIE, 2013, , .	0.8	0
139	Novel fiber-optic geometries for fast quantum communication. Proceedings of SPIE, 2013, , .	0.8	1
140	Orbital angular momentum light frequency conversion and interference with quasi-phase matching crystals. Optics Express, 2014, 22, 20298.	1.7	62
141	Plasmonic metamaterials. Nanotechnology Reviews, 2014, 3, .	2.6	77
142	Hyperconcentration Based on Projection Measurements. Communications in Theoretical Physics, 2014, 61, 322-328.	1.1	4
143	Generation of hyper-entangled photon pairs in coupled microcavities. New Journal of Physics, 2014, 16, 063030.	1.2	16
144	Trajectory-based unveiling of angular momentum of photons. , 2014, , .		0
145	Digitally controlling the 'twist' of light. , 2014, , .		0
146	Hyperentanglement concentration for n-photon 2n-qubit systems with linear optics. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 67.	0.9	7

#	ARTICLE	IF	CITATIONS
147	Highly efficient second harmonic generation of a light carrying orbital angular momentum in an external cavity. Optics Express, 2014, 22, 23673.	1.7	29
148	Efficient sorting of quantum-optical wave packets by temporal-mode interferometry. Optics Letters, 2014, 39, 2924.	1.7	40
149	General hyperentanglement concentration for photon systems assisted by quantum-dot spins inside optical microcavities. Optics Express, 2014, 22, 6547.	1.7	96
150	Experimental demonstration of a flexible time-domain quantum channel. Optics Express, 2014, 22, 25128.	1.7	5
151	Achromatic orbital angular momentum generator. New Journal of Physics, 2014, 16, 123006.	1.2	33
152	Spin plasmonics in magnetism. Chinese Physics B, 2014, 23, 117802.	0.7	4
153	Atomic form factor for twisted vortex photons interacting with atoms. Physical Review A, 2014, 89, .	1.0	3
154	Polarization-entanglement generation and control in a counterpropagating phase-matching geometry. Physical Review A, 2014, 89, .	1.0	6
155	Linear-optical implementation of hyperdistillation from photon loss. Physical Review A, 2014, 89, .	1.0	45
156	Demonstration of coherent time-frequency Schmidt mode selection using dispersion-engineered frequency conversion. Physical Review A, 2014, 90, .	1.0	86
157	Cavity-enabled high-dimensional quantum key distribution. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 155501.	0.6	3
158	Angular momentum radio. , 2014, , .		11
159	Complete $N$ -Qubit Greenberger-Horne-Zeilinger States Analysis Assisted by Frequency Degree of Freedom. Communications in Theoretical Physics, 2014, 62, 683-688.	1.1	7
160	Exploring the quantum nature of the radial degree of freedom of a photon via Hong-Ou-Mandel interference. Physical Review A, 2014, 89, .	1.0	85
161	Two-step hyperentanglement purification with the quantum-state-joining method. Physical Review A, 2014, 90, .	1.0	143
162	Universal hybrid three-qubit quantum gates assisted by a nitrogen-vacancy center coupled with a whispering-gallery-mode microresonator. Physical Review A, 2014, 90, .	1.0	35
163	Optical vortex beam based optical fan for high-precision optical measurements and optical switching. Optics Letters, 2014, 39, 5098.	1.7	46
164	Quantum Data Compression of a Qubit Ensemble. Physical Review Letters, 2014, 113, 160504.	2.9	42

#	ARTICLE	IF	CITATIONS
165	Hyperconcentration for multipartite entanglement via linear optics. <i>Laser Physics Letters</i> , 2014, 11, 125201.	0.6	41
166	Experimental Demonstration of the Einstein-Podolsky-Rosen Steering Game Based on the All-Versus-Nothing Proof. <i>Physical Review Letters</i> , 2014, 113, 140402.	2.9	88
167	Efficient entanglement concentration for arbitrary less-hyperentanglement multi-photon W states with linear optics. <i>Quantum Information Processing</i> , 2014, 13, 1967-1978.	1.0	31
168	Nondestructive discrimination of Greenberger-Horne-Zeilinger-basis states via two-qubit parity detection. <i>Science China: Physics, Mechanics and Astronomy</i> , 2014, 57, 1848-1853.	2.0	1
169	High-Visibility On-Chip Quantum Interference of Single Surface Plasmons. <i>Physical Review Applied</i> , 2014, 2, .	1.5	52
170	High-capacity quantum key distribution via hyperentangled degrees of freedom. <i>New Journal of Physics</i> , 2014, 16, 063052.	1.2	24
171	Hyperentangled photon sources in semiconductor waveguides. <i>Physical Review A</i> , 2014, 89, .	1.0	16
172	Generation of hyperentangled four-photon cluster state via cross-Kerr nonlinearity. <i>Chinese Physics B</i> , 2014, 23, 060306.	0.7	5
173	Entanglement universality of two-qubit X-states. <i>Annals of Physics</i> , 2014, 351, 79-103.	1.0	43
174	Universal hybrid hyper-controlled quantum gates assisted by quantum dots in optical double-sided microcavities. <i>Laser Physics Letters</i> , 2014, 11, 025203.	0.6	31
175	Superdense teleportation for space applications. <i>Proceedings of SPIE</i> , 2014, , .	0.8	0
176	Hyperentanglement concentration for time-bin and polarization hyperentangled photons. <i>Physical Review A</i> , 2015, 91, .	1.0	74
177	Generation and complete nondestructive analysis of hyperentanglement assisted by nitrogen-vacancy centers in resonators. <i>Physical Review A</i> , 2015, 91, .	1.0	67
178	Quantum information processing by weaving quantum Talbot carpets. <i>Physical Review A</i> , 2015, 91, .	1.0	18
179	Entanglement evolution of twisted photons in strong atmospheric turbulence. <i>Physical Review A</i> , 2015, 92, .	1.0	52
180	Channel-capacity gain in entanglement-assisted communication protocols based exclusively on linear optics, single-photon inputs, and coincidence photon counting. <i>Physical Review A</i> , 2015, 92, .	1.0	4
181	Real-time imaging of spin-to-orbital angular momentum hybrid remote state preparation. <i>Physical Review A</i> , 2015, 92, .	1.0	37
182	Distributed quantum dense coding with two receivers in noisy environments. <i>Physical Review A</i> , 2015, 92, .	1.0	18

#	ARTICLE	IF	CITATIONS
183	Raman-Free, Noble-Gas-Filled Photonic-Crystal Fiber Source for Ultrafast, Very Bright Twin-Beam Squeezed Vacuum. <i>Physical Review Letters</i> , 2015, 115, 143602.	2.9	58
184	Quantum Storage of Three-Dimensional Orbital-Angular-Momentum Entanglement in a Crystal. <i>Physical Review Letters</i> , 2015, 115, 070502.	2.9	107
185	Complete logic Bell-state analysis assisted with photonic Faraday rotation. <i>Physical Review A</i> , 2015, 92, .	1.0	82
186	Photon Temporal Modes: A Complete Framework for Quantum Information Science. <i>Physical Review X</i> , 2015, 5, .	2.8	190
187	Photonic ququart logic assisted by the cavity-QED system. <i>Scientific Reports</i> , 2015, 5, 13255.	1.6	6
188	Multiple copies of orbital angular momentum states through second-harmonic generation in a two-dimensional periodically poled LiTaO3 crystal. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	28
189	Superdense teleportation using hyperentangled photons. <i>Nature Communications</i> , 2015, 6, 7185.	5.8	103
190	The physics of angular momentum radio. , 2015, , .		5
191	Photonic integrated devices for exploiting the orbital angular momentum (OAM) of light in optical communications. , 2015, , .		1
192	Two-step complete polarization logic Bell-state analysis. <i>Scientific Reports</i> , 2015, 5, 13453.	1.6	69
193	Generation of light with controllable spatial patterns via the sum frequency in quasi-phase matching crystals. <i>Scientific Reports</i> , 2014, 4, 5650.	1.6	23
194	Sorting photon wave packets using temporal-mode interferometry based on multiple-stage quantum frequency conversion. <i>Physical Review A</i> , 2015, 91, .	1.0	24
195	Two-step measurement of the concurrence for hyperentangled state. <i>Quantum Information Processing</i> , 2015, 14, 963-978.	1.0	35
196	Simultaneous Quantum Transmission and Teleportation of Unknown Photons Using Intra- and Inter-particle Entanglement Controlled-NOT Gates via Cross-Kerr Nonlinearity and P-Homodyne Measurements. <i>International Journal of Theoretical Physics</i> , 2015, 54, 2261-2277.	0.5	13
197	Quantum teleportation of multiple degrees of freedom of a single photon. <i>Nature</i> , 2015, 518, 516-519.	13.7	549
198	Deterministic entanglement distillation for secure double-server blind quantum computation. <i>Scientific Reports</i> , 2015, 5, 7815.	1.6	138
199	Quantum Secure Direct Communication Achieved by Using Multi-Entanglement. <i>International Journal of Theoretical Physics</i> , 2015, 54, 100-105.	0.5	22
200	High-dimensional quantum cryptography with twisted light. <i>New Journal of Physics</i> , 2015, 17, 033033.	1.2	475

#	ARTICLE	IF	CITATIONS
201	Structured quantum waves. Nature Physics, 2015, 11, 629-634.	6.5	117
202	Quantum simulation of 2D topological physics in a 1D array of optical cavities. Nature Communications, 2015, 6, 7704.	5.8	119
203	Three-particle hyper-entanglement: teleportation and quantum key distribution. Quantum Information Processing, 2015, 14, 3813-3826.	1.0	13
204	Harnessing high-dimensional hyperentanglement through a biphoton frequency comb. Nature Photonics, 2015, 9, 536-542.	15.6	138
205	Construction of mutually unbiased bases in $\mathbb{C}^d \otimes \mathbb{C}^d$ . Quantum Information Processing, 2015, 14, 2635-2644.	1.0	7
206	Bidirectional quantum teleportation of unknown photons using path-polarization intra-particle hybrid entanglement and controlled-unitary gates via cross-Kerr nonlinearity. Chinese Physics B, 2015, 24, 050304.	0.7	20
207	Mutually unbiased maximally entangled bases in $\mathbb{C}^d \otimes \mathbb{C}^k$ . Quantum Information Processing, 2015, 14, 2291-2300.	1.0	27
208	Relating quantum discord with the quantum dense coding capacity. Journal of Experimental and Theoretical Physics, 2015, 120, 9-14.	0.2	3
209	Generation of hyper-entanglement in polarization/energy-time and discrete-frequency/energy-time in optical fibers. Scientific Reports, 2015, 5, 9195.	1.6	15
210	Universal hyperparallel hybrid photonic quantum gates with dipole-induced transparency in the weak-coupling regime. Physical Review A, 2015, 91, .	1.0	107
211	Efficient hyperconcentration of nonlocal multipartite entanglement via the cross-Kerr nonlinearity. Optics Express, 2015, 23, 3550.	1.7	65
212	Storage of hyperentanglement in a solid-state quantum memory. Optica, 2015, 2, 279.	4.8	37
213	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
214	Temporal mode sorting using dual-stage quantum frequency conversion by asymmetric Bragg scattering. Optics Express, 2015, 23, 23287.	1.7	12
215	Entanglement assisted time-energy QKD employing Franson interferometers and cavity quantum electrodynamics (CQED) principles. Proceedings of SPIE, 2015, , .	0.8	2
216	Experimental superposition of orders of quantum gates. Nature Communications, 2015, 6, 7913.	5.8	193
217	Spin-dependent diffraction of evanescent waves by subwavelength gratings. Optics Letters, 2015, 40, 3707.	1.7	1
218	Extreme violation of local realism with a hyper-entangled four-photon-eight-qubit Greenberger-Horne-Zelinger state. Scientific Reports, 2015, 4, 4476.	1.6	10

#	ARTICLE	IF	CITATIONS
219	Hyperentanglement purification with linear optics assisted by W-states. Quantum Information Processing, 2015, 14, 623-634.	1.0	7
220	Deterministic arbitrary multi-photon entanglement sharing via noisy channels. Laser Physics Letters, 2015, 12, 015201.	0.6	11
221	Unextendible Maximally Entangled Bases and Mutually Unbiased Bases in $\mathbb{R}^d$ . International Journal of Theoretical Physics, 2015, 54, 927-932.	0.5	27
222	Parallel Quantum Computing Teleportation for Spin Qubits in Quantum Dot and Microcavity Coupled System. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 91-97.	1.9	9
223	Experimental realization of the analogy of quantum dense coding in classical optics. AIP Advances, 2016, 6, 065008.	0.6	2
224	Superdense Coding Interleaved with Forward Error Correction. Quantum Measurements and Quantum Metrology, 2016, 3, .	3.3	8
225	Transcoder for the spatial and temporal modes of a photon. Optics Express, 2016, 24, 13800.	1.7	3
226	Complete hyperentangled Bell state analysis for polarization and time-bin hyperentanglement. Optics Express, 2016, 24, 18388.	1.7	30
227	Error-detected generation and complete analysis of hyperentangled Bell states for photons assisted by quantum-dot spins in double-sided optical microcavities. Optics Express, 2016, 24, 28444.	1.7	73
228	Integrated optical vortex beam receivers. Optics Express, 2016, 24, 28529.	1.7	14
229	~1 mJ pulsed vortex laser at 1645 nm with well-defined helicity. Optics Express, 2016, 24, 15596.	1.7	35
230	High-order dispersion effects in two-photon interference. Physical Review A, 2016, 94, .	1.0	10
231	Centrifugal photovoltaic and photogalvanic effects driven by structured light. Scientific Reports, 2016, 6, 21475.	1.6	28
232	On-chip coherent conversion of photonic quantum entanglement between different degrees of freedom. Nature Communications, 2016, 7, 11985.	5.8	97
233	Classical hypercorrelation and wave-optics analogy of quantum superdense coding. Scientific Reports, 2016, 5, 18574.	1.6	7
234	Experimental realization of entanglement in multiple degrees of freedom between two quantum memories. Nature Communications, 2016, 7, 13514.	5.8	68
235	Conversion of the optical orbital angular momentum in a plasmon-assisted second-harmonic generation. Applied Physics Letters, 2016, 109, .	1.5	20
236	Deterministic error correction for nonlocal spatial-polarization hyperentanglement. Scientific Reports, 2016, 6, 20677.	1.6	13

#	ARTICLE	IF	CITATIONS
237	Orbital angular momentum photonic quantum interface. Light: Science and Applications, 2016, 5, e16019-e16019.	7.7	82
238	Path-polarization hyperentangled and cluster states of photons on a chip. Light: Science and Applications, 2016, 5, e16064-e16064.	7.7	73
239	Introduction to the transverse spatial correlations in spontaneous parametric down-conversion through the biphoton birth zone. Journal of Optics (United Kingdom), 2016, 18, 053501.	1.0	84
240	Quadrees and Morton Indexing. , 2016, , 1637-1642.		1
241	Basic Concepts of Linear Optical System. Springer Theses, 2016, , 1-50.	0.0	0
242	Non-destructive identification of twisted light. Optics Letters, 2016, 41, 1574.	1.7	15
243	Efficient superdense coding in the presence of non-Markovian noise. Europhysics Letters, 2016, 114, 10005.	0.7	46
244	Entangled vector vortex beams. Physical Review A, 2016, 94, .	1.0	63
245	Scalable orbital-angular-momentum sorting without destroying photon states. Physical Review A, 2016, 94, .	1.0	10
246	Hyperentanglement purification for two-photon six-qubit quantum systems. Physical Review A, 2016, 94, .	1.0	82
247	High-dimensional encoding based on classical nonseparability. Optics Express, 2016, 24, 15143.	1.7	38
248	Photonic Four-qubit Entangled Decoherence-free States Assisted by Cavity-QED System. International Journal of Theoretical Physics, 2016, 55, 4841-4851.	0.5	6
249	Joint remote preparation of arbitrary two- and three-photon state with linear-optical elements. Quantum Information Processing, 2016, 15, 4785-4803.	1.0	19
250	Quantum Key Distribution. , 2016, , 1703-1707.		0
251	Non-destructive splitter of twisted light based on modes splitting in a ring cavity. Optics Express, 2016, 24, 2166.	1.7	1
252	Discerning on a sub-optical-wavelength the attosecond time delays in electron emission from magnetic sublevels by optical vortices. Physical Review A, 2016, 94, .	1.0	15
253	Photonic integrated devices for exploiting the orbital angular momentum of light in optical communications. Frontiers of Optoelectronics, 2016, 9, 518-525.	1.9	3
254	Self-assisted complete maximally hyperentangled state analysis via the cross-Kerr nonlinearity. Physical Review A, 2016, 93, .	1.0	56

#	ARTICLE	IF	CITATIONS
255	Unusual quantum Talbot effect based on the orbital angular momentum of photons. Physical Review A, 2016, 93, .	1.0	5
256	Tamper-Indicating Quantum Seal. Physical Review Applied, 2016, 5, .	1.5	19
257	Refined hyperentanglement purification of two-photon systems for high-capacity quantum communication with cavity-assisted interaction. Annals of Physics, 2016, 375, 105-118.	1.0	28
258	High-capacity quantum secure direct communication using hyper-entanglement of photonic qubits. International Journal of Quantum Information, 2016, 14, 1650043.	0.6	10
259	General hyperconcentration of photonic polarization-time-bin hyperentanglement assisted by nitrogen-vacancy centers coupled to resonators. Scientific Reports, 2016, 6, 35922.	1.6	11
260	Electro-optic analyzer of angular momentum hyperentanglement. Scientific Reports, 2016, 6, 21856.	1.6	1
261	Tomographic reconstruction of time-bin-entangled qudits. Physical Review A, 2016, 94, .	1.0	13
262	There are many ways to spin a photon: Half-quantization of a total optical angular momentum. Science Advances, 2016, 2, e1501748.	4.7	43
263	Complete nondestructive analysis of two-photon six-qubit hyperentangled Bell states assisted by cross-Kerr nonlinearity. Scientific Reports, 2016, 6, 22016.	1.6	48
264	Quantum computation based on photonic systems with two degrees of freedom assisted by the weak cross-Kerr nonlinearity. Scientific Reports, 2016, 6, 29939.	1.6	9
265	Complete hyperentangled-Bell-state analysis for photonic qubits assisted by a three-level $\hat{\rho}$ -type system. Scientific Reports, 2016, 6, 19497.	1.6	18
266	Tunable cavity-enhanced photon pairs source in Hermite-Gaussian mode. AIP Advances, 2016, 6, 025114.	0.6	4
267	Encoding $M$ classical bits in the arrival time of dense-coded photons. Proceedings of SPIE, 2016, , .	0.8	1
268	Discrimination of orbital angular momentum modes of the terahertz vortex beam using a diffractive mode transformer. Optics Express, 2016, 24, 12534.	1.7	30
269	Accurate relative-phase and time-delay maps all over the emission cone of hyperentangled photon source. , 2016, , .		1
270	Mutually Unbiasedness between Maximally Entangled Bases and Unextendible Maximally Entangled Systems in $\mathbb{C}^2 \otimes \mathbb{C}^k$ . International Journal of Theoretical Physics, 2016, 55, 886-891.	0.5	6
271	Generation of hybrid four-qubit entangled decoherence-free states assisted by the cavity-QED system. Optics Communications, 2016, 366, 397-403.	1.0	13
272	Controlled Dense Coding Using the Maximal Slice States. International Journal of Theoretical Physics, 2016, 55, 2182-2188.	0.5	14



#	ARTICLE	IF	CITATIONS
273	Efficient hyperentanglement concentration for N-particle Greenberger-Horne-Zeilinger state assisted by weak cross-Kerr nonlinearity. <i>Quantum Information Processing</i> , 2016, 15, 2033-2052.	1.0	31
274	Linear-Optics-Based Bidirectional Controlled Remote State Preparation via Five-Photon Cluster-Type States for Quantum Communication Network. <i>International Journal of Theoretical Physics</i> , 2016, 55, 535-547.	0.5	20
275	Coupled orbital angular momentum conversions in a quasi-periodically poled LiTaO <sub>3</sub> crystal. <i>Optics Letters</i> , 2016, 41, 1169.	1.7	35
276	Deterministic mediated superdense coding with linear optics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 848-855.	0.9	2
277	Complete N-Photon Greenberger-Horne-Zeilinger State Analysis Using Hyperentanglement. <i>International Journal of Theoretical Physics</i> , 2016, 55, 1568-1576.	0.5	1
278	A FDTD solution of scattering of laser beam with orbital angular momentum by dielectric particles: Far-field characteristics. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 188, 200-213.	1.1	28
279	Controlled Remote Implementation of an Arbitrary Single-Qubit Operation with Partially Entangled Quantum Channel. <i>International Journal of Theoretical Physics</i> , 2017, 56, 1085-1095.	0.5	10
280	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
281	Orbital angular momentum of photons and the entanglement of Laguerre-Gaussian modes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150442.	1.6	104
282	Relative-phase and time-delay maps all over the emission cone of hyperentangled photon source. <i>Optical Engineering</i> , 2017, 56, 026114.	0.5	11
283	Superdense Coding over Optical Fiber Links with Complete Bell-State Measurements. <i>Physical Review Letters</i> , 2017, 118, 050501.	2.9	74
284	Ultrafast optically induced resonant and non-resonant current generation in atoms and nanostructures: role of the photons orbital angular momentum. <i>Journal of Modern Optics</i> , 2017, 64, 1088-1095.	0.6	8
285	Quantum information with even and odd states of orbital angular momentum of light. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1858-1865.	0.9	15
286	A quantum router for high-dimensional entanglement. <i>Quantum Science and Technology</i> , 2017, 2, 014001.	2.6	22
287	Practical entanglement concentration of nonlocal polarization-spatial hyperentangled states with linear optics. <i>Quantum Information Processing</i> , 2017, 16, 1.	1.0	3
288	On chip analysis of path-polarization hyperentangled cluster photon states. , 2017, , .		1
289	Enhancing interferometer phase estimation, sensing sensitivity, and resolution using robust entangled states. <i>Optical Engineering</i> , 2017, 56, 111710.	0.5	5
290	Experimental verification of an indefinite causal order. <i>Science Advances</i> , 2017, 3, e1602589.	4.7	151

#	ARTICLE	IF	CITATIONS
291	Quantum hyperentanglement and its applications in quantum information processing. Science Bulletin, 2017, 62, 46-68.	4.3	195
292	Transfer and preservation of entanglement in a hybrid optomechanical system. Physical Review A, 2017, 96, .	1.0	14
293	Distribution of hybrid entanglement and hyperentanglement with time-bin for secure quantum channel under noise via weak cross-Kerr nonlinearity. Scientific Reports, 2017, 7, 10208.	1.6	13
294	Simultaneous entanglement swapping of multiple orbital angular momentum states of light. Nature Communications, 2017, 8, 632.	5.8	73
295	Synthetic-lattice enabled all-optical devices based on orbital angular momentum of light. Nature Communications, 2017, 8, 16097.	5.8	53
296	Lattice-layer entanglement in Bernal-stacked bilayer graphene. Physical Review B, 2017, 95, .	1.1	18
297	Distribution of high-dimensional entanglement via an intra-city free-space link. Nature Communications, 2017, 8, 15971.	5.8	123
298	Orthogonal quasi-phase-matched superlattice for generation of hyperentangled photons. Scientific Reports, 2017, 7, 4169.	1.6	12
299	Generation of path-polarization hyperentanglement using quasi-phase-matching in quasi-periodic nonlinear photonic crystal. Scientific Reports, 2017, 7, 4954.	1.6	3
300	Polarization entanglement purification for concatenated Greenberger-Horne-Zeilinger state. Annals of Physics, 2017, 385, 10-35.	1.0	42
301	Hyperentanglement concentration of nonlocal two-photon six-qubit systems with linear optics. Annals of Physics, 2017, 385, 86-94.	1.0	35
302	Self-error-rejecting photonic qubit transmission in polarization-spatial modes with linear optical elements. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	18
303	Spatial-Variant Geometric Phase of Hybrid-Polarized Vector Optical Fields. Chinese Physics Letters, 2017, 34, 044204.	1.3	3
304	High-capacity quantum secure direct communication with two-photon six-qubit hyperentangled states. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1.	2.0	90
305	Trajectory-based unveiling of the angular momentum of photons. Physical Review A, 2017, 95, .	1.0	1
306	Improving detection range, signal-to-noise ratio, and measurement time through hyperentanglement. Optical Engineering, 2017, 56, 071511.	0.5	5
307	Detecting the Orbital Angular Momentum of Electro-Magnetic Waves Using Virtual Rotational Antenna. Scientific Reports, 2017, 7, 4585.	1.6	29
308	Experimental Demonstration of Four-Dimensional Photonic Spatial Entanglement between Multi-core Optical Fibres. Scientific Reports, 2017, 7, 4302.	1.6	20

#	ARTICLE	IF	CITATIONS
309	Terahertz circular Airy vortex beams. Scientific Reports, 2017, 7, 3891.	1.6	34
310	Quantum Secure Direct Communication with Quantum Memory. Physical Review Letters, 2017, 118, 220501.	2.9	460
311	Quantum Communication and Cryptography. Quantum Science and Technology, 2017, , 201-220.	1.5	1
312	Higher order mode entanglement in a type II optical parametric oscillator. Optics Express, 2017, 25, 4985.	1.7	12
313	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
314	Wavelength- and OAM-tunable vortex laser with a reflective volume Bragg grating. Optics Express, 2017, 25, 23312.	1.7	26
315	Single-path Sagnac interferometer with Dove prism for orbital-angular-momentum photon manipulation. Optics Express, 2017, 25, 24946.	1.7	12
316	Tunable high harmonic pulses from nanorings swirled by optical vortices. Optics Express, 2017, 25, 27857.	1.7	7
317	Generation of the complete four-dimensional Bell basis. Optica, 2017, 4, 1462.	4.8	51
318	Hyperentanglement purification using imperfect spatial entanglement. Optics Express, 2017, 25, 2969.	1.7	22
319	Robust hyperparallel photonic quantum entangling gate with cavity QED. Optics Express, 2017, 25, 10863.	1.7	54
320	Demonstration of frequency-bin entanglement in an integrated optical microresonator. , 2017, , .		2
321	On-chip generation of broadband high-order Laguerreâ€“Gaussian modes in a metasurface. Optics Letters, 2017, 42, 2463.	1.7	17
322	Directly writing binary multi-sector phase plates on fused silica using femtosecond laser. High Power Laser Science and Engineering, 2018, 6, .	2.0	4
323	Generation of $2\mu$ Laguerreâ€“Gaussian mode in a Tm:LuYAG solid-state laser. Laser Physics Letters, 2018, 15, 045002.	0.6	4
324	Annual-ring-type quasi-phase-matching crystal for generation of narrowband high-dimensional entanglement. Physical Review A, 2018, 97, .	1.0	3
325	Topological photonic orbital-angular-momentum switch. Physical Review A, 2018, 97, .	1.0	18
326	Deterministic realization of collective measurements via photonic quantum walks. Nature Communications, 2018, 9, 1414.	5.8	52

#	ARTICLE	IF	CITATIONS
327	Self-assisted complete hyperentangled Bell state analysis using quantum-dot spins in optical microcavities. <i>Laser Physics Letters</i> , 2018, 15, 055204.	0.6	9
328	Four-dimensional entanglement distribution over 100 km. <i>Scientific Reports</i> , 2018, 8, 817.	1.6	30
329	Optical scheme for generating hyperentanglement having photonic qubit and time-bin via quantum dot and cross-Kerr nonlinearity. <i>Scientific Reports</i> , 2018, 8, 2566.	1.6	12
330	Hyper- and hybrid nonlocality. <i>Physical Review Letters</i> , 2018, 120, 050404.	2.9	14
332	Vectorial optical fields: recent advances and future prospects. <i>Science Bulletin</i> , 2018, 63, 54-74.	4.3	101
333	Characterization of coherent quantum frequency combs using electro-optic phase modulation. <i>Physical Review A</i> , 2018, 97, .	1.0	35
334	Quantum-enhanced sensing from hyperentanglement. <i>Physical Review A</i> , 2018, 97, .	1.0	8
335	Experimental preparation and characterization of four-dimensional quantum states using polarization and time-bin modes of a single photon. <i>Optics Communications</i> , 2018, 419, 30-35.	1.0	5
336	Demultiplexing of photonic temporal modes by a linear system. <i>Physical Review A</i> , 2018, 97, .	1.0	2
337	Multiparty-controlled Joint Remote Preparation of an Arbitrary m-qudit State with d-dimensional Greenberger-Horne-Zeilinger States. <i>International Journal of Theoretical Physics</i> , 2018, 57, 148-158.	0.5	13
338	Quantum storage of orbital angular momentum entanglement in cold atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2018, 51, 032004.	0.6	20
339	Long distance quantum teleportation. <i>Quantum Science and Technology</i> , 2018, 3, 014012.	2.6	19
340	Efficient Entanglement Concentration of Nonlocal Two-Photon Polarization-Time-Bin Hyperentangled States. <i>International Journal of Theoretical Physics</i> , 2018, 57, 664-673.	0.5	2
341	FBG-Based Multidimensional QKD. , 2018, , .		0
342	A review of complex vector light fields and their applications. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 123001.	1.0	296
343	Photonic lantern broadband orbital angular momentum mode multiplexer. <i>Optics Express</i> , 2018, 26, 30042.	1.7	49
344	Faithful Entanglement Purification for High-Capacity Quantum Communication with Two-Photon Four-Qubit Systems. <i>Physical Review Applied</i> , 2018, 10, .	1.5	44
345	A Proof for the Existence of Nonsquare Unextendible Maximally Entangled Bases. <i>International Journal of Theoretical Physics</i> , 2018, 57, 2496-2503.	0.5	4

#	ARTICLE	IF	CITATIONS
346	Does orbital angular momentum have effect on laser's scattering by molecular atmosphere?. Journal of Quantitative Spectroscopy and Radiative Transfer, 2018, 220, 119-122.	1.1	4
347	Integrated design of pi/2 converter and its experimental performance. Applied Optics, 2018, 57, 6076.	0.9	15
348	Parallel remote state preparation of arbitrary single-qubit states via linear-optical elements by using hyperentangled Bell states as the quantum channel. Quantum Information Processing, 2018, 17, 1.	1.0	17
349	Experimental Greenberger-Horne-Zeilinger entanglement beyond qubits. Nature Photonics, 2018, 12, 759-764.	15.6	109
350	Violation of a Bell inequality in two-dimensional state spaces for radial quantum number. Physical Review A, 2018, 98, .	1.0	14
351	Experimental measurement of a nonlinear entanglement witness by hyperentangling two-qubit states. Physical Review A, 2018, 98, .	1.0	7
352	Adaptive recurrence quantum entanglement distillation for two-Kraus-operator channels. Physical Review A, 2018, 97, .	1.0	23
353	18-Qubit Entanglement with Six Photons™ Three Degrees of Freedom. Physical Review Letters, 2018, 120, 260502.	2.9	274
354	50-GHz-spaced comb of high-dimensional frequency-bin entangled photons from an on-chip silicon nitride microresonator. Optics Express, 2018, 26, 1825.	1.7	134
355	Experimental characterization of continuous-variable orbital angular momentum entanglement using Stokes-operator basis. Optics Express, 2018, 26, 5724.	1.7	5
356	Beating the channel capacity limit for superdense coding with entangled ququarts. Science Advances, 2018, 4, eaat9304.	4.7	119
357	FBG-Based Weak Coherent State and Entanglement-Assisted Multidimensional QKD. IEEE Photonics Journal, 2018, 10, 1-12.	1.0	14
358	Multiplexed storage and real-time manipulation based on a multiple degree-of-freedom quantum memory. Nature Communications, 2018, 9, 3407.	5.8	92
359	Self-assisted complete analysis of three-photon hyperentangled Greenberger-Horne-Zeilinger states with nitrogen-vacancy centers in microcavities. Quantum Information Processing, 2018, 17, 1.	1.0	6
360	The Linear Optical Unambiguous Discrimination of Hyperentangled Bell States Assisted by Time Bin. Annalen Der Physik, 2019, 531, 1900201.	0.9	11
361	Dual Quantum Zeno Superdense Coding. Scientific Reports, 2019, 9, 11193.	1.6	7
362	High-dimensional optical quantum logic in large operational spaces. Npj Quantum Information, 2019, 5, .	2.8	92
363	Linear optical CNOT gate with orbital angular momentum and polarization. Quantum Information Processing, 2019, 18, 1.	1.0	15

#	ARTICLE	IF	CITATIONS
364	Enhanced Superdense Coding Over Correlated Amplitude Damping Channel. <i>Entropy</i> , 2019, 21, 598.	1.1	5
365	Tripartite Entanglement: Foundations and Applications. <i>Universe</i> , 2019, 5, 209.	0.9	32
366	High-Fidelity Hyperentangled Cluster States of Two-Photon Systems and Their Applications. <i>Symmetry</i> , 2019, 11, 1079.	1.1	2
367	High-Dimensional Quantum Communication: Benefits, Progress, and Future Challenges. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900038.	1.8	195
368	Experimental Two-Way Communication with One Photon. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900050.	1.8	27
369	Direct measurement of the concurrence of hybrid entangled state based on parity check measurements. <i>Chinese Physics B</i> , 2019, 28, 010301.	0.7	10
370	Quantum mechanics with patterns of light: Progress in high dimensional and multidimensional entanglement with structured light. <i>AVS Quantum Science</i> , 2019, 1, .	1.8	114
371	One-shot conclusive multipoint quantum dense coding capacities. <i>Physical Review A</i> , 2019, 100, .	1.0	5
372	Propagation and orbital angular momentum of vortex beams generated from a spiral phase plate-fiber. <i>Laser Physics Letters</i> , 2019, 16, 035106.	0.6	2
373	Evolution equation for multi-photon states in turbulence. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 405301.	0.7	5
374	Universal entanglement decay of photonic orbital angular momentum qubit states in atmospheric turbulence: an analytical treatment. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 405303.	0.7	10
375	Multicast-based multiparty remote state preparation schemes of two-qubit states. <i>Quantum Information Processing</i> , 2019, 18, 1.	1.0	10
376	Complete measurement and multiplexing of orbital angular momentum Bell states. <i>Physical Review A</i> , 2019, 100, .	1.0	10
377	Classical simulation of high-dimensional entanglement by non-separable angular-radial modes. <i>Optics Express</i> , 2019, 27, 18363.	1.7	9
378	Optical vortices 30 years on: OAM manipulation from topological charge to multiple singularities. <i>Light: Science and Applications</i> , 2019, 8, 90.	7.7	1,151
379	Entropy- and purity-tailored broadband entanglement from vectorial four-wave mixing: Insights from pulse modes and classical-field dynamics. <i>Physical Review A</i> , 2019, 100, .	1.0	1
380	Single-photon Bell state measurement based on a quantum random walk. <i>Physical Review A</i> , 2019, 100, .	1.0	6
381	Efficient orbital angular momentum vortex beam generation by generalized coding metasurface. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	15

#	ARTICLE	IF	CITATIONS
382	Probing Molecular Chirality by Orbital-Angular-Momentum-Carrying X-ray Pulses. Journal of Chemical Theory and Computation, 2019, 15, 4180-4186.	2.3	25
383	Generation of large scale hyperentangled photonic GHZ states with an error-detected pattern. European Physical Journal D, 2019, 73, 1.	0.6	3
384	Manipulation of eight-dimensional Bell-like states. Science Advances, 2019, 5, eaat9206.	4.7	20
385	Error-heralded generation and self-assisted complete analysis of two-photon hyperentangled Bell states through single-sided quantum-dot-cavity systems. Science China: Physics, Mechanics and Astronomy, 2019, 62, 1.	2.0	13
386	Arbitrary two-particle high-dimensional Bell-state measurement by auxiliary entanglement. Physical Review A, 2019, 99, .	1.0	21
387	Advances in Quantum Dense Coding. Advanced Quantum Technologies, 2019, 2, 1900011.	1.8	47
388	Efficient quantum secret sharing based on polarization and orbital angular momentum. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2019, 42, 143-148.	0.6	5
389	Generation of Entangled and Hyperentangled Bell States on Photon Systems Assisted by Diamond Nitrogen-Vacancy Centers Coupled with Whispering-Gallery-Mode Microresonators. International Journal of Theoretical Physics, 2019, 58, 2200-2212.	0.5	2
390	Direct Generation of Narrow-band Hyperentangled Photons. Physical Review Letters, 2019, 122, 123607.	2.9	35
391	Remote preparation for single-photon two-qubit hybrid state with hyperentanglement via linear-optical elements. Scientific Reports, 2019, 9, 4663.	1.6	16
392	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
393	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
394	Effect of Pump Bandwidth on Measurements of Frequency-Bin Entanglement. , 2019, , .		0
395	Hyper-parallel nonlocal CNOT operation with hyperentanglement assisted by cross-Kerr nonlinearity. Scientific Reports, 2019, 9, 15939.	1.6	9
396	Observing sub-Poissonian statistics of twisted single photons using oscilloscope. Review of Scientific Instruments, 2019, 90, 113104.	0.6	0
397	Coherence and entanglement under three-qubit cloning operations. Quantum Information Processing, 2019, 18, 1.	1.0	3
398	Photonic quantum information processing: a review. Reports on Progress in Physics, 2019, 82, 016001.	8.1	402
399	Optical orbital angular momentum under strong scintillation. Physical Review A, 2019, 99, .	1.0	16

#	ARTICLE	IF	CITATIONS
400	R&D advances for quantum communication systems. , 2020, , 495-563.		1
401	Generation of non-classical states of photons from a metal-dielectric interface: a novel architecture for quantum information processing. <i>Nanoscale</i> , 2020, 12, 256-261.	2.8	5
402	Heralded entanglement purification protocol using high-fidelity parity-check gate based on nitrogen-vacancy center in optical cavity*. <i>Chinese Physics B</i> , 2020, 29, 010305.	0.7	6
403	Photon statistics of twisted heralded single photons. <i>Journal of Modern Optics</i> , 2020, 67, 126-132.	0.6	3
404	Information-Theoretic Evaluation of Orbital Angular Momentum Transmission. , 2020, , .		2
405	Selection rules for the excitation of quantum dots by spatially structured light beams: Application to the reconstruction of higher excited exciton wave functions. <i>Physical Review B</i> , 2020, 102, .	1.1	1
406	Path identity as a source of high-dimensional entanglement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 26118-26122.	3.3	22
407	Distillation of lossy hyperentangled states. <i>Physical Review A</i> , 2020, 102, .	1.0	4
408	Joint remote preparation of single-photon three-qubit state with hyperentangled state via linear-optical elements. <i>Quantum Information Processing</i> , 2020, 19, 1.	1.0	11
409	Parallel Ghost Imaging. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000073.	1.8	2
410	Twisted Beams With Variable OAM Order and Consistent Beam Angle via Single Uniform Circular Arrays. <i>IEEE Access</i> , 2020, 8, 163006-163014.	2.6	6
411	Measurement-device-independent quantum secure direct communication of multiple degrees of freedom of a single photon. <i>Europhysics Letters</i> , 2020, 131, 40005.	0.7	37
412	Error-Detected Generation of High-Fidelity Photonic Hyperentanglement in Polarization-Spatial-Time Three Degrees of Freedom Assisted by Quantum-Dot Spins. <i>International Journal of Theoretical Physics</i> , 2020, 59, 4025-4039.	0.5	2
413	Hyperentanglement concentration of nonlocal two-photon six-qubit systems via the cross-Kerr nonlinearity. <i>Scientific Reports</i> , 2020, 10, 21444.	1.6	2
414	Coherent Generation of the Complete High-Dimensional Bell Basis by Adaptive Pump Modulation. <i>Physical Review Applied</i> , 2020, 14, .	1.5	8
415	Implementing a Two-Photon Three-Degrees-of-Freedom Hyper-Parallel Controlled Phase Flip Gate Through Cavity-Assisted Interactions. <i>Annalen Der Physik</i> , 2020, 532, 1900578.	0.9	9
416	Verification of high-dimensional entanglement generated in quantum interference. <i>Physical Review A</i> , 2020, 101, .	1.0	24
417	Quantum channel correction with twisted light using compressive sensing. <i>Physical Review A</i> , 2020, 101, .	1.0	5



#	ARTICLE	IF	CITATIONS
418	Experimental high-dimensional quantum secret sharing with spin-orbit-structured photons. <i>Physical Review A</i> , 2020, 101, .	1.0	29
419	Asymptotical Locking Tomography of High-Dimensional Entanglement*. <i>Chinese Physics Letters</i> , 2020, 37, 034204.	1.3	7
420	Multipartite entanglement measure and complete monogamy relation. <i>Physical Review A</i> , 2020, 101, .	1.0	26
421	Generation of two-photon hybrid-entangled $\langle i \rangle W \langle /i \rangle$ state with photonic qubit and time-bin via cross-Kerr nonlinearities. <i>Physica Scripta</i> , 2020, 95, 085104.	1.2	9
422	Complete hyperentangled Bell state analysis assisted by hyperentanglement. <i>Laser Physics Letters</i> , 2020, 17, 075203.	0.6	7
423	Advances in high-dimensional quantum entanglement. <i>Nature Reviews Physics</i> , 2020, 2, 365-381.	11.9	234
424	Generation of hybrid Greenberger-Horne-Zeilinger entangled states of particlelike and wavelike optical qubits in circuit QED. <i>Physical Review A</i> , 2020, 101, .	1.0	12
425	Characterization of off-axis phase singular optical vortex and its nonlinear wave-mixing to generate control broad OAM spectra. <i>Physica Scripta</i> , 2020, 95, 055508.	1.2	9
426	Construction of genuine multipartite entangled states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 125302.	0.7	10
427	Recovering the full dimensionality of hyperentanglement in collinear photon pairs. <i>Physical Review A</i> , 2020, 101, .	1.0	5
428	Vector Vortex Beam Emitter Embedded in a Photonic Chip. <i>Physical Review Letters</i> , 2020, 124, 153601.	2.9	47
429	Measurement of the concurrence of arbitrary two-photon six-qubit hyperentangled state. <i>Europhysics Letters</i> , 2020, 129, 50004.	0.7	8
430	Generation of Arbitrary Longitudinal Polarization Vortices by Pupil Function Manipulation. <i>Advanced Photonics Research</i> , 2021, 2, 2000087.	1.7	4
431	Joint Multi-Frequency Beam Shaping and Steering via Space-Time Coding Digital Metasurfaces. <i>Advanced Functional Materials</i> , 2021, 31, 2007620.	7.8	52
432	Signal-to-Noise Ratio Improvement by Vortex Wave Detection With a Rotational Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 1020-1029.	3.1	6
433	Research of recording optical vortices in azo polymer films by applying holographic method. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2021, .	0.2	0
434	Two-photon interference: the Hong-Ou-Mandel effect. <i>Reports on Progress in Physics</i> , 2021, 84, 012402.	8.1	83
435	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

#	ARTICLE	IF	CITATIONS
436	Generation of electromagnetic solitons with angular momentum. <i>Optics Letters</i> , 2021, 46, 336.	1.7	0
437	Long-Distance Entanglement Purification for Quantum Communication. <i>Physical Review Letters</i> , 2021, 126, 010503.	2.9	129
438	Polarization entanglement-enabled quantum holography. <i>Nature Physics</i> , 2021, 17, 591-597.	6.5	82
439	Separability of heterogeneous quantum systems using multipartite concurrence and tangle. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	4
440	Deterministic nondestructive state analysis for polarization-spatial-time-bin hyperentanglement with cross-Kerr nonlinearity*. <i>Chinese Physics B</i> , 2021, 30, 030304.	0.7	5
441	648 Hilbert-space dimensionality in a biphoton frequency comb: entanglement of formation and Schmidt mode decomposition. <i>Npj Quantum Information</i> , 2021, 7, .	2.8	25
442	Cavity-enhanced broadband photonic Rabi oscillation. <i>Physical Review A</i> , 2021, 103, .	1.0	7
443	Efficient entanglement distillation for quantum channels with polarization mode dispersion. <i>Physical Review A</i> , 2021, 103, .	1.0	6
444	Controlled Cyclic Remote Preparation of an Arbitrary Single-Qudit State by Using a Seven-Qudit Cluster State as the Quantum Channel. <i>International Journal of Theoretical Physics</i> , 2021, 60, 1635-1649.	0.5	2
445	Four-agent bidirectional quantum controlled teleportation via quantum entanglement swapping. <i>Modern Physics Letters A</i> , 2021, 36, 2150073.	0.5	3
446	Remote preparation for single-photon state in two degrees of freedom with hyper-entangled states. <i>Frontiers of Physics</i> , 2021, 16, 1.	2.4	9
447	Quantum Topological Photonics. <i>Advanced Optical Materials</i> , 2021, 9, 2001739.	3.6	22
448	Creating heralded hyper-entangled photons using Rydberg atoms. <i>Light: Science and Applications</i> , 2021, 10, 100.	7.7	2
449	Fractional discrete vortex solitons. <i>Optics Letters</i> , 2021, 46, 2256.	1.7	2
450	Entanglement-Assisted Communication Surpassing the Ultimate Classical Capacity. <i>Physical Review Letters</i> , 2021, 126, 250501.	2.9	25
451	Fast imaging of multimode transverse spectral correlations for twin photons. <i>Optics Letters</i> , 2021, 46, 3009.	1.7	4
452	Faithful entanglement distribution using quantum multiplexing in noisy channel. <i>Europhysics Letters</i> , 2021, 135, 40001.	0.7	5
453	Steady-state thermal blooming effect of vortex beam propagation through the atmosphere. <i>Optics and Laser Technology</i> , 2021, 139, 106982.	2.2	14

#	ARTICLE	IF	CITATIONS
454	Filtration mapping as complete Bell state analyzer for bosonic particles. Scientific Reports, 2021, 11, 14236.	1.6	0
455	Experimental Single-Copy Entanglement Distillation. Physical Review Letters, 2021, 127, 040506.	2.9	44
456	Orbital Angular Momentum Multiplexed Quantum Dense Coding. Physical Review Letters, 2021, 127, 093601.	2.9	44
457	Remote preparation of a general single-photon hybrid state. Results in Physics, 2021, 27, 104497.	2.0	5
458	Measuring dimensionality and purity of high-dimensional entangled states. Nature Communications, 2021, 12, 5159.	5.8	16
459	Universal separability criterion for arbitrary density matrices from causal properties of separable and entangled quantum states. Scientific Reports, 2021, 11, 15866.	1.6	1
460	Vortex beams of atoms and molecules. Science, 2021, 373, 1105-1109.	6.0	37
461	Optimal dense coding and quantum phase transition in Ising-XXZ diamond chain. Physica A: Statistical Mechanics and Its Applications, 2022, 585, 126444.	1.2	1
462	Polarization interferometric prism: A versatile tool for generation of vector fields, measurement of topological charges, and implementation of a spin-orbit controlled-Not gate. Applied Physics Letters, 2021, 118, .	1.5	6
463	Inverse-designed Optical Vortex Beam Emitters. , 2021, , .		4
464	Highly efficient hyperentanglement concentration with two steps assisted by quantum swap gates. Scientific Reports, 2015, 5, 16444.	1.6	32
465	Complete hyperentangled state analysis using weak cross-Kerr nonlinearity and auxiliary entanglement. New Journal of Physics, 2020, 22, 083051.	1.2	9
466	Cyclic deterministic bidirectional quantum controlled teleportation with maximally seven-qubit entangled state. Laser Physics Letters, 2020, 17, 125202.	0.6	14
467	Experimental Diagnostics of Entanglement Swapping by a Collective Entanglement Test. Physical Review Applied, 2020, 14, .	1.5	4
468	Hyperentanglement in structured quantum light. Physical Review Research, 2020, 2, .	1.3	15
469	Air-core fiber distribution of hybrid vector vortex-polarization entangled states. Advanced Photonics, 2019, 1, 1.	6.2	74
470	Hyperentangled Photons for Communication and Metrology. , 2009, , .		1
471	Hyperdense Coding with Single Photons. , 2016, , .		2

#	ARTICLE	IF	CITATIONS
472	Complete analysis of hyperentangled Bell states assisted with auxiliary hyperentanglement. Optics Express, 2019, 27, 8994.	1.7	27
473	Determining topological charge based on an improved Fizeau interferometer. Optics Express, 2019, 27, 12774.	1.7	41
474	Asymmetrical hyperentanglement concentration for entanglement of polarization and orbital angular momentum. Optics Express, 2019, 27, 13172.	1.7	6
475	Manipulation and measurement of quantum states with liquid crystal devices. Optics Express, 2019, 27, 13765.	1.7	7
476	Hyperparallel transistor, router and dynamic random access memory with unity fidelities. Optics Express, 2019, 27, 21380.	1.7	5
477	Efficient hyperentanglement purification for three-photon systems with the fidelity-robust quantum gates and hyperentanglement link. Optics Express, 2019, 27, 27046.	1.7	23
478	Coherent generation and manipulation of entangled stationary photons based on a multiple degrees of freedom quantum memory. Optics Express, 2019, 27, 27477.	1.7	9
479	Complete and faithful hyperentangled-Bell-state analysis of photon systems using a failure-heralded and fidelity-robust quantum gate. Optics Express, 2020, 28, 2857.	1.7	29
480	Flexible generation of higher-order Poincaré beams with high efficiency by manipulating the two eigenstates of polarized optical vortices. Optics Express, 2020, 28, 10618.	1.7	15
481	Time-frequency optical filtering: efficiency vs. temporal-mode discrimination in incoherent and coherent implementations. Optics Express, 2020, 28, 32819.	1.7	9
482	Localized vortex beams in anisotropic Lieb lattices. Optics Letters, 2020, 45, 3569.	1.7	3
483	Examining second-harmonic generation of high-order Laguerre-Gaussian modes through a single cylindrical lens. Optics Letters, 2017, 42, 4387.	1.7	22
484	Experimental realization of a resource-saving polarization-independent orbital-angular-momentum-preserving tunable beam splitter. Optics Letters, 2019, 44, 755.	1.7	1
485	Polarization diversity phase modulator for measuring frequency-bin entanglement of a biphoton frequency comb in a depolarized channel. Optics Letters, 2019, 44, 1674.	1.7	6
486	27- $\mu\text{m}$ optical vortex beam directly generated from an Er:Y <sub>2</sub> O <sub>3</sub> ceramic laser. Optics Letters, 2019, 44, 4973.	1.7	14
487	Engineering two-photon wavefunction and exchange statistics in a semiconductor chip. Optica, 2020, 7, 316.	4.8	31
488	Experimental certification of quantum dimensions and irreducible high-dimensional quantum systems with independent devices. Optica, 2020, 7, 1073.	4.8	9
489	Optical parametric amplification of a Laguerre-Gaussian mode. OSA Continuum, 2019, 2, 236.	1.8	9

#	ARTICLE	IF	CITATIONS
490	Implementation of a two-dimensional quantum walk using cross-Kerr nonlinearity. OSA Continuum, 2019, 2, 1667.	1.8	4
492	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
493	Generation of coaxial vortex beams with doubled topological charges using a stacked liquid crystal structure. Japanese Journal of Applied Physics, 0, , .	0.8	3
494	Application of optical orbital angular momentum to rotation measurements. Results in Optics, 2021, 5, 100158.	0.9	10
495	Quantum Process Tomography by Direct Characterization of Quantum Dynamics Using Hyperentangled Photons. , 2010, , .		0
496	Quantum Process Tomography by Direct Characterization of Quantum Dynamics Using Hyperentangled Photons. , 2011, , .		0
497	Applications of Nonlinear Optics in Quantum Imaging and Quantum Communication. , 2011, , .		1
498	Distinguishability of Hyper-Entangled Bell States by Linear Evolution and Local Measurement. , 2011, , .		0
500	Post-Selection-Free Mode-Locked Two-Photon State for High-Dimensional Hyperentanglement Generation. , 2013, , .		0
502	Linear Optical Quantum Computing in a Single Spatial Mode. , 2014, , .		1
503	Special Matrices in Constructing Mutually Unbiased Maximally Entangled Bases in C2C4. Open Access Library Journal (oalib), 2015, 02, 1-7.	0.1	0
504	Bell State Free Dense Coding with Linear Optics. , 2015, , .		0
505	Quantum Dense Coding. , 2015, , 1-5.		0
506	Effects of Dzyaloshinskii-Moriya interaction and intrinsic decoherence on quantum dense coding via a two-qubit Heisenberg spin system. Wuli Xuebao/Acta Physica Sinica, 2015, 64, 080302.	0.2	2
507	Complete Bell state measurement realized utilizing time-polarization hyperentanglement. , 2016, , .		0
508	Quantum Dense Coding. , 2016, , 1695-1698.		0
509	Superdense codes transmitted over optical fiber links decoded deterministically using time-polarization hyperentanglement. , 2017, , .		0
510	Hybrid entanglement for quantum information and communication applications. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
511	Superdense coding for quantum networking environments. , 2018, , .		1
512	Multiplexing vortex beams using miniaturized 3D-printed optical phase elements. , 2018, , .		0
513	Combining multi-photon entanglement, hyper-entanglement, and quantum networks for enhanced sensing. , 2018, , .		4
514	Enhanced communication through quantum hyper-entanglement. , 2018, , .		4
515	Transmission of polarization quantum state through a fiber optic channel by swapped time-bin state. , 2018, , .		0
516	Raman protocol-based quantum memories. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 034203.	0.2	2
517	Multimode solid-state quantum memory. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 030303.	0.2	0
518	Diversity on the Influence of Atmospheric Turbulence for the States Carrying Orbital Angular Momentum. , 0, , .		0
519	Discrete Variable (DV) QKD. , 2019, , 267-322.		4
520	Enhancement of continuous-variable hyperentanglement by optimizing pump mode. Wuli Xuebao/Acta Physica Sinica, 2019, 68, 034204.	0.2	1
521	Polarization-based quantum entanglement for enhanced resolution. Optical Engineering, 2019, 58, 1.	0.5	0
522	Corroboration of a multi-phase screen model. , 2019, , .		2
523	Parallel preparation of a set of arbitrary path-polarization hyperentangled states. , 2019, , .		0
524	Enhanced sensing through multiphoton derived hyper-entanglement and networks. , 2019, , .		0
525	Improving performance by combining entanglement, networks and waveform design. , 2019, , .		0
526	Simulations of Photonic Quantum Networks for Performance Analysis and Experiment Design. , 2019, , .		5
527	Parallel Simulation of Quantum Key Distribution Networks. , 2020, , .		5
528	Effect of noise on deterministic remote preparation of an arbitrary two-qudit state by using a four-qudit $\mathbb{H}$ -type state as the quantum channel. International Journal of Quantum Information, 2020, 18, 2050028.	0.6	1

#	ARTICLE	IF	CITATIONS
529	Polarization diversity phase modulator for frequency-bin operations with hyperentangled biphoton frequency combs. , 2020, , .		0
530	Liquid crystal-assisted coherent combining of fiber lasers for mode-tunable orbital angular momentum beam array generation. , 2020, , .		0
531	Orbital angular momentum radiator multiplexing electromagnetic waves in free space. Optics Express, 2020, 28, 345.	1.7	12
532	One-step quantum secure direct communication. Science Bulletin, 2022, 67, 367-374.	4.3	165
533	Generation and Manipulation of Nonclassical Photon Sources in Nonlinear Processes. , 0, , .		0
534	Efficient generation of heralded narrowband color-entangled states. Optics Express, 2020, 28, 31076.	1.7	2
535	Remote state preparation of single-photon orbital-angular-momentum lattices. Physical Review A, 2021, 104, .	1.0	11
536	Hyperentanglement-assisted hyperdistillation for hyper-encoding photon system. Frontiers of Physics, 2022, 17, 1.	2.4	11
537	Engineering photonic angular momentum with structured light: a review. Advanced Photonics, 2021, 3, .	6.2	80
538	Holographic photonic neuron. Neuromorphic Computing and Engineering, 0, , .	2.8	0
539	Scalable and effective multi-level entangled photon states: a promising tool to boost quantum technologies. Nanophotonics, 2021, 10, 4447-4465.	2.9	13
540	Spiraling light: from donut modes to a Magnus effect analogy. Nanophotonics, 2022, 11, 633-644.	2.9	5
541	High performance reflective microwave split-square-ring metasurface vortex beam generator. Optics Communications, 2022, 507, 127631.	1.0	7
542	Noise-resistant quantum communications using hyperentanglement. Optica, 2021, 8, 1524.	4.8	9
543	Direct generation of mid-infrared pulsed optical vortices at $\hat{\lambda}^{\frac{1}{4}}$ 2.7 $\hat{\mu}$ m. Optics Express, 2021, 29, 41842.	1.7	9
544	Generation and evolution of vortex array with variable-ratio lateral-shearing interferometry. Journal of Optics (United Kingdom), 2022, 24, 035602.	1.0	5
545	Simulating electrical fields in the orbital angular momentum space of light. Optics Express, 2022, 30, 972.	1.7	1
546	Effects of ocean turbulence on photon orbital angular momentum quantum communication. Wuli Xuebao/Acta Physica Sinica, 2022, 71, 010304-010304.	0.2	1

#	ARTICLE	IF	CITATIONS
547	Broadband terahertz wavefront modulation based on flexible metasurface. <i>Optics Communications</i> , 2022, 508, 127840.	1.0	8
548	On-demand harnessing of photonic soliton molecules. <i>Optica</i> , 2022, 9, 240.	4.8	38
549	Generation of hyperentangled states and two-dimensional quantum walks using $J$ or $q$ plates and polarization beam splitters. <i>Physical Review A</i> , 2022, 105, .	1.0	6
550	Complete Hyperentangled Bell States Analysis For Polarizationâ€”Spatialâ€”Timeâ€”Bin Degrees of Freedom with Unity Fidelity. <i>Annalen Der Physik</i> , 2022, 534, .	0.9	7
551	Powerful supercontinuum vortices generated by femtosecond vortex beams with thin plates. <i>Photonics Research</i> , 2022, 10, 802.	3.4	10
552	Error-mitigated photonic variational quantum eigensolver using a single-photon ququart. <i>Optica</i> , 2022, 9, 88.	4.8	6
553	Photonic schemes of distribution and reconstruction of an entangled state from hybrid entanglement between polarization and time-bin via quantum dot. <i>Physica Scripta</i> , 0, , .	1.2	1
554	Coaxial multi-ring optical vortex generation based on compound spiral phase plates. <i>Laser Physics</i> , 2022, 32, 035402.	0.6	5
555	Collective unitary evolution with linear optics by Cartan decomposition. <i>Europhysics Letters</i> , 2021, 136, 60001.	0.7	1
556	Quantum communication with time-bin entanglement over a wavelength-multiplexed fiber network. <i>APL Photonics</i> , 2022, 7, .	3.0	16
557	Ultra-secure optical encryption based on tightly focused perfect optical vortex beams. <i>Nanophotonics</i> , 2022, 11, 1063-1070.	2.9	27
558	Third-harmonic generation of spatially structured light in a quasi-periodically poled crystal. <i>Optica</i> , 2022, 9, 183.	4.8	10
559	Transverse Mode-Encoded Quantum Gate on a Silicon Photonic Chip. <i>Physical Review Letters</i> , 2022, 128, 060501.	2.9	10
560	Off-axis pumped Tm:YLF vortex laser with continuously tunable wavelength. <i>Infrared Physics and Technology</i> , 2022, 122, 104064.	1.3	4
561	Deterministic Remote Preparation of an Arbitrary Single-Qudit State with High-Dimensional Spatial-Mode Entanglement via Linear-Optical Elements. <i>International Journal of Theoretical Physics</i> , 2022, 61, 1.	0.5	10
562	An all-digital approach for versatile hybrid entanglement generation. <i>Journal of Optics (United Kingdom)</i> 1 0.784314 1.05 BT / Overlock 10	1.0	3
563	648-Hilbert space dimensionality in biphoton frequency combs for quantum-secure communications and networks. , 2022, , .		0
564	One-step device-independent quantum secure direct communication. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	2.0	77



#	ARTICLE	IF	CITATIONS
565	Recent Progress in Nonlinear Frequency Conversion of Optical Vortex Lasers. <i>Frontiers in Physics</i> , 2022, 10, .	1.0	5
566	Remotely Establishing Polarization Entanglement Over Noisy Polarization Channels. <i>Physical Review Applied</i> , 2022, 17, .	1.5	10
567	Generation and characteristics of an Airy vortex beam from the anomalous vortex beam. <i>Results in Physics</i> , 2022, 35, 105389.	2.0	14
568	A Scalable Quantum Key Distribution Network Testbed Using Parallel Discrete-Event Simulation. <i>ACM Transactions on Modeling and Computer Simulation</i> , 2022, 32, 1-22.	0.6	0
569	Telecom-band hyperentangled photon pairs from a fiber-based source. <i>Physical Review A</i> , 2022, 105, .	1.0	8
570	High-dimensional coding/decoding information with braiding period in free-space optical communication link. <i>Optik</i> , 2022, 258, 168828.	1.4	3
571	Calculation of Bit Error Rates for Superdense and ALOHA based Quantum Communication. , 2021, , .		0
572	Controlled remote implementation of operators via hyperentanglement. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2022, 55, 225307.	0.7	3
573	Telecom-band Hyperentangled Photon Pairs from a Fiber-based Source. , 2022, , .		1
574	Maximal coin-walker entanglement in a ballistic quantum walk. <i>Physical Review A</i> , 2022, 105, .	1.0	5
575	Detection of the orbital angular momentum state of light using sinusoidally shaped phase grating. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	7
576	High-Performance Hyperentanglement Generation and Manipulation Based on Lithium Niobate Waveguides. <i>Physical Review Applied</i> , 2022, 17, .	1.5	6
577	Self-Q-switched Tm:YAP vortex laser by thermal-lensing effect. <i>Infrared Physics and Technology</i> , 2022, 123, 104197.	1.3	4
578	Direct Light Orbital Angular Momentum Detection in Mid-Infrared Based on the Type-II Weyl Semimetal $\text{TaIrTe}_4$ . <i>Advanced Materials</i> , 2022, 34, .	11.1	9
579	Bidirectional Deep Learning of Polarization Transfer in Liquid Crystals with Application to Quantum State Preparation. <i>Physical Review Applied</i> , 2022, 17, .	1.5	0
580	Massive-mode polarization entangled biphoton frequency comb. <i>Scientific Reports</i> , 2022, 12, .	1.6	11
581	Influence of Spatio-Temporal Couplings on Focused Optical Vortices. <i>Photonics</i> , 2022, 9, 389.	0.9	6
582	Joint remote preparation of a single-photon hyper-state with two pairs of hyper-Bell states. <i>Journal of Physics: Conference Series</i> , 2022, 2269, 012002.	0.3	0

#	ARTICLE	IF	CITATIONS
583	Orbital angular momentum-encoded quantum digital signature over atmospheric channel. <i>Quantum Information Processing</i> , 2022, 21, .	1.0	5
584	Verifying angular-position entanglement by Hardy's paradox with multisetting high-dimensional systems. <i>Physical Review A</i> , 2022, 105, .	1.0	1
585	Generation of the Anomalous Vortex Beam by Spiral Axicon Implemented on Spatial Light Modulator. <i>Frontiers in Physics</i> , 0, 10, .	1.0	3
586	Control of harmonic orbital angular momentum in second-harmonic generation of perfect vortices. <i>Physical Review A</i> , 2022, 105, .	1.0	4
587	Complete analysis of the maximally hyperentangled state via the weak cross-Kerr nonlinearity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022, 39, 2272.	0.9	2
588	Frequency Conversion of Optical Vortex Arrays Through Four-Wave Mixing in Hot Atomic Gases. <i>Frontiers in Physics</i> , 0, 10, .	1.0	0
589	Relativistic dilation and contraction of the probabilities of quantum states of light at angular incidence. <i>Optik</i> , 2022, 267, 169712.	1.4	2
590	Protecting high-dimensional entanglement from decoherence via quantum weak measurement and reversal. <i>Modern Physics Letters A</i> , 2022, 37, .	0.5	6
591	Bayesian tomography of high-dimensional on-chip biphoton frequency combs with randomized measurements. <i>Nature Communications</i> , 2022, 13, .	5.8	28
592	Feature recognition of two-dimensional array vortex interferogram using convolutional neural network. <i>Applied Optics</i> , 0, , .	0.9	0
593	Generating a multi-mode vortex beam based on spoof surface plasmon polaritons. <i>Optics Letters</i> , 2022, 47, 4459.	1.7	3
594	Capturing the amplitude and phase profile of the vortex beam based on coherent detection. <i>Frontiers in Physics</i> , 0, 10, .	1.0	2
595	Four-dimensional orbital angular momentum Bell-state measurement assisted by the auxiliary polarization and path degrees of freedom. <i>Optics Express</i> , 0, , .	1.7	2
596	Exclusion zone analysis on secret key distillation over realistic satellite-to-satellite free-space channel. <i>Journal of Optical Communications and Networking</i> , 0, , .	3.3	0
597	Metasurfaces for Amplitude-Tunable Superposition of Plasmonic Orbital Angular Momentum States. <i>Materials</i> , 2022, 15, 6334.	1.3	0
598	Inverse Design of Multi-Layer Foundry-Fabricated Optical Vortex Beam Emitters. , 2022, , .		0
599	Complete hyperentangled Greenberger-Horne-Zeilinger state analysis for polarization and time-bin hyperentanglement. <i>Chinese Physics B</i> , 2023, 32, 060301.	0.7	1
600	Efficient scheme for preparing hybrid GHZ entangled states with multiple types of photonic qubits in circuit QED. <i>European Physical Journal Plus</i> , 2022, 137, .	1.2	2

#	ARTICLE	IF	CITATIONS
601	Inverse Design of Optical Vortex Beam Emitters. ACS Photonics, 0, , .	3.2	8
602	Superdense coding based on intraparticle entanglement states. European Physical Journal D, 2022, 76, .	0.6	2
603	Self-assisted deterministic hyperentangled-Bell-state analysis for polarization and double longitudinal momentum degrees of freedom of photon system. , 0, 1, .		0
604	Noise resilience in path-polarization hyperentangled probe states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2022, 55, 225501.	0.6	1
605	High-dimensional multi-input quantum random access codes and mutually unbiased bases. Physical Review A, 2022, 106, .	1.0	0
606	Correlated two-photon modulation based on nonlinear effects in a photonic synthetic lattice. Physical Review A, 2022, 106, .	1.0	0
607	Mode decomposition of a few-mode fiber with OAM eigenmodes. , 2022, , .		1
608	Measurements of phase distributions of optical vortices based on the sinusoidal phase modulation method. , 2022, 1, 2287.		0
609	General scheme for complete high-dimensional Bell state measurement. Optics Letters, 2022, 47, 5817.	1.7	0
610	Generation of THz Vortex Beams and Interferometric Determination of Their Topological Charge. IEEE Transactions on Terahertz Science and Technology, 2023, 13, 44-49.	2.0	2
611	All-dielectric terahertz metasurface for linearly-polarized multichannel transmission and superposition states of spherical and vortex waves. Photonics Research, 2023, 11, 485.	3.4	4
612	Bidirectional remote hyperstate preparation under common quantum control using hyperentanglement. Journal of the Optical Society of America B: Optical Physics, 2023, 40, 11.	0.9	1
613	Broadband polarization-entangled source for C+L-band flex-grid quantum networks. Optics Letters, 2022, 47, 6480.	1.7	6
614	Faithful and efficient hyperentanglement purification for spatial-polarization-time-bin photon system. Chinese Physics B, 0, , .	0.7	4
615	Spinâ€“orbit microlaser emitting in a four-dimensional Hilbert space. Nature, 2022, 612, 246-251.	13.7	11
616	Imaging of Single-Photon Orbital-Angular-Momentum Bell States. Physical Review Applied, 2022, 18, .	1.5	2
617	Evolution of optical vortices in gradient media and curved spaces. Optics Letters, 0, , .	1.7	1
618	Entanglement-assisted quantum communication with simple measurements. Nature Communications, 2022, 13, .	5.8	4

#	ARTICLE	IF	CITATIONS
619	Experimentally determined critical power for self-focusing of femtosecond vortex beams in air by a fluorescence measurement. Optics Express, 2023, 31, 1557.	1.7	5
620	An Orbital-Angular-Momentum- and Wavelength-Tunable 2 $\hat{1}$ / <sub>4</sub> m Vortex Laser. Photonics, 2022, 9, 926.	0.9	2
621	Spiral fractional vortex beams. Optics Express, 2023, 31, 7813.	1.7	4
622	Increasing Communication Rates Using Photonic Hyperentangled States. , 2022, , .		0
623	Three-dimensional on-chip mode converter. Optics Letters, 2023, 48, 1140.	1.7	4
624	High-power Er:Y2O3 ceramic laser with an optical vortex beam output at $\hat{a}$ <sup>~</sup> / <sub>4</sub> 2.7 $\hat{A}$ <sup>1</sup> / <sub>4</sub> m. Frontiers in Physics, 0, 11, .	1.0	1
625	Detection of the Orbital Angular Momentum State of Light using Sinusoidally-shaped Phase Grating. , 2022, , .		0
626	Modelling the effect of astigmatism on the beam quality factor of Laguerre-Gaussian optical beams.. , 2023, , .		0
627	Practically Enhanced Hyperentanglement Concentration for Polarization-Spatial Hyperentangled Bell States with Linear Optics and Common Single-Photon Detectors. Physical Review Applied, 2023, 19, .	1.5	5
628	Quantum Contextuality. Quantum - the Open Journal for Quantum Science, 0, 7, 953.	0.0	3
629	Advances in quantum entanglement purification. Science China: Physics, Mechanics and Astronomy, 2023, 66, .	2.0	26
630	Generation of terahertz spatiotemporal optical vortices with frequency-dependent orbital angular momentum. Optics Express, 2023, 31, 16267.	1.7	1
639	Advances in entanglement-based QKD for space applications. , 2023, , .		1
649	Experimental Demonstration of High-Dimensional Hyperentagled Quantum States. , 2023, , .		0
661	Tomography of ultrabroadband polarization-frequency hyperentangled photons. , 2023, , .		0
663	Quantum Dense Coding. , 2023, , .		0