

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97  
papers

1,116  
citations

17  
h-index

28  
g-index

107  
ext. papers

1,442  
ext. citations

2.6  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
97	Experimental Verification of Dissipation-Time Uncertainty Relation.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 050603	7.4	0
96	Topological optomechanical amplifier in synthetic PT $\mathcal{PT}$ -symmetry. <i>Nanophotonics</i> , <b>2022</b> ,	6.3	1
95	A superradiant maser with nitrogen-vacancy center spins. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2022</b> , 65, 1	3.6	3
94	Unselective ground-state blockade of Rydberg atoms for implementing quantum gates. <i>Frontiers of Physics</i> , <b>2022</b> , 17, 1	3.7	4
93	Unidirectional acoustic metamaterials based on nonadiabatic holonomic quantum transformations. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2022</b> , 65, 1	3.6	1
92	Dissipative preparation of qutrit entanglement via periodically modulated Rydberg double antiblockade. <i>Optics Express</i> , <b>2021</b> , 29, 10117-10133	3.3	2
91	Distributed geometric quantum computation based on the optimized-control-technique in a cavity-atom system via exchanging virtual photons. <i>Optics Express</i> , <b>2021</b> , 29, 8737-8750	3.3	5
90	Transparency, Stokes, and Anti-Stokes Processes in a Multimode Quadratic Coupling System with Parametric Amplifier. <i>Annalen Der Physik</i> , <b>2021</b> , 533, 2000612	2.6	4
89	One-step implementation of Rydberg-antiblockade SWAP and controlled-SWAP gates with modified robustness. <i>Photonics Research</i> , <b>2021</b> , 9, 814	6	3
88	Fast and dephasing-tolerant preparation of steady Knill-Laflamme-Milburn states via dissipative Rydberg pumping. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	11
87	Distinguishment of GreenbergerHorneZeilinger States in Rydberg Atoms via Noncyclic Geometric Quantum Computation. <i>Annalen Der Physik</i> , <b>2021</b> , 533, 2100057	2.6	1
86	Multiple-qubit controlled unitary quantum gate for Rydberg atoms using shortcut to adiabaticity and optimized geometric quantum operations. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	3
85	Single-Atom Verification of the Noise-Resilient and Fast Characteristics of Universal Nonadiabatic Noncyclic Geometric Quantum Gates. <i>Physical Review Letters</i> , <b>2021</b> , 127, 030502	7.4	3
84	Realization of DeutschJozsa Algorithm in Rydberg Atoms by Composite Nonadiabatic Holonomic Quantum Computation with Strong Robustness Against Systematic Errors. <i>Advanced Quantum Technologies</i> , <b>2021</b> , 4, 2100093	4.3	1
83	Dipole-dipole-interaction-driven antiblockade of two Rydberg atoms. <i>Physical Review A</i> , <b>2021</b> , 104,	2.6	3
82	Multiple-qubit Rydberg quantum logic gate via dressed-state scheme. <i>Optics Communications</i> , <b>2021</b> , 505, 127500	2	1
81	Resilient quantum gates on periodically driven Rydberg atoms. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	14

80	Systematic-Error-Tolerant Multiqubit Holonomic Entangling Gates. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	3
79	One-Step Implementation of Time-Optimal-Control Three-Qubit Nonadiabatic Holonomic Controlled Gates in Rydberg Atoms. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	2
78	Preparation of Steady 3D Dark State Entanglement in Dissipative Rydberg Atoms via Electromagnetic Induced Transparency. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 2000059	2.6	10
77	Fast achievement of quantum state transfer and distributed quantum entanglement by dressed states. <i>Chinese Physics B</i> , <b>2020</b> , 29, 050306	1.2	
76	Two-Path Interference for Enantiomer-Selective State Transfer of Chiral Molecules. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	20
75	Nondestructive Rydberg parity meter and its applications. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	33
74	Single-atom verification of the information-theoretical bound of irreversibility at the quantum level. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
73	Nonadiabatic noncyclic geometric quantum computation in Rydberg atoms. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	16
72	Rydberg antiblockade regimes: Dynamics and applications. <i>Europhysics Letters</i> , <b>2020</b> , 131, 53001	1.6	12
71	Discrimination of enantiomers through quantum interference and quantum Zeno effect. <i>Optics Express</i> , <b>2020</b> , 28, 33475-33489	3.3	8
70	Effective Rabi dynamics of Rydberg atoms and robust high-fidelity quantum gates with a resonant amplitude-modulation field. <i>Optics Letters</i> , <b>2020</b> , 45, 1200-1203	3	15
69	Complete and nondestructive distinguishment of many-body Rydberg entanglement via robust geometric quantum operations. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	11
68	Concentration of entanglement in collective-rotating decoherence-free subspace. <i>Modern Physics Letters B</i> , <b>2020</b> , 34, 2050067	1.6	
67	Distributed quantum information processing via single atom driving. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2020</b> , 53, 035503	1.3	4
66	Optimized geometric quantum computation with a mesoscopic ensemble of Rydberg atoms. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	21
65	Robust and high-fidelity nondestructive Rydberg parity meter. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	25
64	Structural phase transition of the ion crystals embedded in an optical lattice. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	1
63	Generation of distributed steady entangled state between two solid-state spins. <i>Quantum Information Processing</i> , <b>2020</b> , 19, 1	1.6	

62	Resonant-interaction-induced Rydberg antiblockade and its applications. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126039	2.3	13
61	Periodically driven facilitated high-efficiency dissipative entanglement with Rydberg atoms. <i>Physical Review A</i> , <b>2020</b> , 101,	2.6	13
60	Analytical investigation of one-dimensional Doppler cooling of trapped ions with Etype configuration. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	1
59	Universal speeded-up adiabatic geometric quantum computation in three-level systems via counterdiabatic driving. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2019</b> , 52, 335301	2	15
58	Generation of large scale hyperentangled photonic GHZ states with an error-detected pattern. <i>European Physical Journal D</i> , <b>2019</b> , 73, 1	1.3	1
57	Auxiliary-qubit-driving-induced entanglement and logic gate. <i>Europhysics Letters</i> , <b>2019</b> , 126, 30001	1.6	9
56	Error-detected single-photon quantum routing using a quantum dot and a double-sided microcavity system. <i>Chinese Physics B</i> , <b>2019</b> , 28, 020301	1.2	3
55	Heralded entanglement concentration of nonlocal photons assisted by doublesided optical microcavities. <i>Physica Scripta</i> , <b>2019</b> , 94, 095103	2.6	6
54	Entanglement Purification on Separate Atoms in an Error-Detected Pattern. <i>International Journal of Theoretical Physics</i> , <b>2019</b> , 58, 1404-1417	1.1	2
53	Robust and highly efficient discrimination of chiral molecules through three-mode parallel paths. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	16
52	Conversion of Knill-Laflamme-Milburn Entanglement to Greenberger-Horne-Zeilinger Entanglement. <i>Annalen Der Physik</i> , <b>2019</b> , 531, 1900160	2.6	7
51	Rydberg-atom-based controlled arbitrary-phase gate and its applications. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 1937	1.7	9
50	Macroscopically distinct superposition in a spin ensemble coupled to superconducting flux-qubits. <i>Optics Express</i> , <b>2019</b> , 27, 377-390	3.3	4
49	Construction of robust Rydberg controlled-phase gates. <i>Optics Letters</i> , <b>2019</b> , 44, 2036-2039	3	24
48	Preparation of a steady entangled state of two nitrogen-vacancy centers by simultaneously utilizing two dissipative factors. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	7
47	Heralded teleportation of a controlled-NOT gate for nitrogen-vacancy centers coupled to a microtoroid resonator. <i>Laser Physics</i> , <b>2019</b> , 29, 025205	1.2	1
46	Non-Markovian quantum Brownian motion in one dimension in electric fields. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	10
45	Characterization of the focusing performance of axial line-focused spiral zone plates. <i>Applied Optics</i> , <b>2018</b> , 57, 3802-3807	1.7	18

44	Multiphoton Knill-Laflamme-Milburn states generated by nonlinear optics. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2018</b> , 35, 694	1.7	10
43	Rydberg quantum controlled-phase gate with one control and multiple target qubits. <i>Chinese Physics B</i> , <b>2018</b> , 27, 110304	1.2	5
42	Mutual Conversions Between Knill-Laflamme-Milburn and W States. <i>Annalen Der Physik</i> , <b>2018</b> , 530, 1800114	1.4	8
41	Investigation of nondegenerate two-photon absorption in common fluorescent dyes. <i>Journal of Nonlinear Optical Physics and Materials</i> , <b>2018</b> , 27, 1850027	0.8	1
40	One-step construction of the multiple-qubit Rydberg controlled-phase gate. <i>Physical Review A</i> , <b>2018</b> , 98,	2.6	52
39	Engineering steady-state entanglement via dissipation in coupled cavities. <i>Laser Physics Letters</i> , <b>2017</b> , 14, 055206	1.5	2
38	Fast Rydberg antiblockade regime and its applications in quantum logic gates. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	75
37	Superadiabatic scheme for optimizing the fast generation of tree-type 3D entanglement. <i>Annals of Physics</i> , <b>2017</b> , 386, 34-43	2.5	11
36	Exact non-Markovian dynamics of qubits coupled to two interacting environments. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	14
35	Applications of the modified Rydberg antiblockade regime with simultaneous driving. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	62
34	Generation of steady entanglement via unilateral qubit driving in bad cavities. <i>Scientific Reports</i> , <b>2017</b> , 7, 17648	4.9	5
33	Dissipative preparation of distributed steady entanglement: an approach of unilateral qubit driving. <i>Optics Express</i> , <b>2017</b> , 25, 88-101	3.3	10
32	One-step implementation of the Rydberg-Rydberg-interaction gate. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	71
31	Generation of tree-type three-dimensional entangled states via adiabatic passage. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	16
30	Efficient shortcuts to adiabatic passage for three-dimensional entanglement generation via transitionless quantum driving. <i>Scientific Reports</i> , <b>2016</b> , 6, 30929	4.9	11
29	Generation of atomic NOON states via shortcuts to adiabatic passage. <i>Quantum Information Processing</i> , <b>2016</b> , 15, 4159-4173	1.6	7
28	Linear-Optical Proposal for Implementation of the Two-Logic-Qubit Controlled Phase Gate in Decoherence-Free Subspace with Conventional Photon Detectors. <i>International Journal of Theoretical Physics</i> , <b>2016</b> , 55, 447-456	1.1	
27	Complete and nondestructive polarization-entangled cluster state analysis assisted by a cavity input/output process. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 342	1.7	3

26	Time-bin-encoding-based remote states generation of nitrogen-vacancy centers through noisy channels. <i>Chinese Physics B</i> , <b>2015</b> , 24, 020305	1.2	1
25	Adiabatic passage for three-dimensional entanglement generation through quantum Zeno dynamics. <i>Optics Express</i> , <b>2015</b> , 23, 5064-77	3.3	29
24	Shortcuts to adiabatic passage for multiqubit controlled-phase gate. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	53
23	Parity-gate-based quantum information processing in decoherence-free subspace with nitrogen-vacancy centers. <i>Optics Communications</i> , <b>2015</b> , 352, 140-147	2	6
22	Preparation of entanglement between atoms in spatially separated cavities via fiber loss. <i>European Physical Journal D</i> , <b>2015</b> , 69, 1	1.3	13
21	Quantum information processing in collective-rotating decoherence-free subspace. <i>Quantum Information Processing</i> , <b>2015</b> , 14, 1855-1867	1.6	2
20	Dissipative preparation of three-atom entanglement state via quantum feedback control. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2015</b> , 32, 1873	1.7	14
19	Environment-assisted entanglement restoration and improvement of the fidelity for quantum teleportation. <i>Quantum Information Processing</i> , <b>2015</b> , 14, 4147-4162	1.6	18
18	Simplified scheme for entanglement preparation with Rydberg pumping via dissipation. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	42
17	Preparation of three-dimensional entanglement for distant atoms in coupled cavities via atomic spontaneous emission and cavity decay. <i>Scientific Reports</i> , <b>2014</b> , 4, 7566	4.9	30
16	Scheme for entanglement generation in an atom-cavity system via dissipation. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	36
15	Quantum phase flip gate between distant nitrogen-vacancy-center ensembles coupled to superconducting flux qubits. <i>Optics Communications</i> , <b>2014</b> , 331, 59-63	2	
14	Quantum information processing in decoherence-free subspace with nitrogen-vacancy centers coupled to a whispering-gallery mode microresonator. <i>Optics Communications</i> , <b>2014</b> , 313, 180-185	2	16
13	Quantum cloning based on iSWAP gate with nitrogen-vacancy centers in photonic crystal cavities. <i>Optics Communications</i> , <b>2014</b> , 333, 187-192	2	3
12	Realization of nondestructive multi-atom cluster state analyzer via the cavity input-output process. <i>Quantum Information Processing</i> , <b>2013</b> , 12, 2749-2763	1.6	2
11	Generation of Multi-electron Entanglement with Quantum-Dot Spins in Double-Sided Optical Microcavity Systems. <i>International Journal of Theoretical Physics</i> , <b>2013</b> , 52, 3892-3901	1.1	6
10	NONDESTRUCTIVE ENTANGLEMENT ANALYSIS AND GENERATION WITH ATOMS IN LOW-Q CAVITIES ASSISTED BY COHERENT LIGHT. <i>International Journal of Quantum Information</i> , <b>2013</b> , 11, 1350055	0.8	
9	An economic and feasible scheme to generate the four-photon entangled state via weak cross-Kerr nonlinearity. <i>Optics Communications</i> , <b>2013</b> , 293, 172-176	2	12

8	Complete four-photon cluster-state analyzer based on cross-Kerr nonlinearity. <i>Chinese Physics B</i> , <b>2013</b> , 22, 090309	1.2	1
7	Efficient three-step entanglement concentration for an arbitrary four-photon cluster state. <i>Chinese Physics B</i> , <b>2013</b> , 22, 030305	1.2	21
6	Complete Bell-state and Greenberger-Horne-Zeilinger-state nondestructive detection based on simplified symmetry analyzer. <i>Optics Communications</i> , <b>2012</b> , 285, 4134-4139	2	10
5	Quantum information splitting of an arbitrary three-qubit state via the cavity input-output process. <i>Optics Communications</i> , <b>2012</b> , 285, 4616-4620	2	9
4	Atomic quantum information processing in low-Q cavity in the intermediate coupling region. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 2827	1.7	7
3	Nondestructive N-atom Greenberger-Horne-Zeilinger state analyzer via the cavity input-output process. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2012</b> , 29, 2156	1.7	3
2	Generating a four-photon polarization-entangled cluster state with homodyne measurement via cross-Kerr nonlinearity. <i>Chinese Physics B</i> , <b>2012</b> , 21, 044205	1.2	11
1	Multiple-Qubit C k U m Logic Gates of Rydberg Atoms via Optimized Geometric Quantum Operations. <i>Annalen Der Physik</i> , 2100506	2.6	