

Peng Xue

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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.

117
papers

2,273
citations

27
h-index

43
g-index

130
ext. papers

3,097
ext. citations

3.6
avg, IF

5.4
L-index

#	Paper	IF	Citations
117	Observation of topological edge states in parity-time-symmetric quantum walks. <i>Nature Physics</i> , 2017 , 13, 1117-1123	16.2	267
116	Non-Hermitian bulk-boundary correspondence in quantum dynamics. <i>Nature Physics</i> , 2020 , 16, 761-766	16.2	178
115	Detecting Topological Invariants in Nonunitary Discrete-Time Quantum Walks. <i>Physical Review Letters</i> , 2017 , 119, 130501	7.4	96
114	Conditional efficient multiuser quantum cryptography network. <i>Physical Review A</i> , 2002 , 65,	2.6	82
113	Simulating Dynamic Quantum Phase Transitions in Photonic Quantum Walks. <i>Physical Review Letters</i> , 2019 , 122, 020501	7.4	73
112	Universal quantum computation in decoherence-free subspace with neutral atoms. <i>Physical Review Letters</i> , 2006 , 97, 140501	7.4	66
111	Experimental quantum-walk revival with a time-dependent coin. <i>Physical Review Letters</i> , 2015 , 114, 140502	7.4	65
110	Quantum walk on a line for a trapped ion. <i>Physical Review Letters</i> , 2009 , 103, 183602	7.4	61
109	Observation of Critical Phenomena in Parity-Time-Symmetric Quantum Dynamics. <i>Physical Review Letters</i> , 2019 , 123, 230401	7.4	55
108	Observation of emergent momentum-time skyrmions in parity-time-symmetric non-unitary quench dynamics. <i>Nature Communications</i> , 2019 , 10, 2293	17.4	53
107	Realization of Single-Qubit Positive-Operator-Valued Measurement via a One-Dimensional Photonic Quantum Walk. <i>Physical Review Letters</i> , 2015 , 114, 203602	7.4	49
106	Dangling-bond charge qubit on a silicon surface. <i>New Journal of Physics</i> , 2010 , 12, 083018	2.9	46
105	Experimental investigation of the stronger uncertainty relations for all incompatible observables. <i>Physical Review A</i> , 2016 , 93,	2.6	41
104	Perfect state transfer and efficient quantum routing: A discrete-time quantum-walk approach. <i>Physical Review A</i> , 2014 , 90,	2.6	38
103	Scheme for preparation of multipartite entanglement of atomic ensembles. <i>Physical Review A</i> , 2003 , 67,	2.6	37
102	Nonclassical photon pairs generated from a room-temperature atomic ensemble. <i>Physical Review A</i> , 2004 , 69,	2.6	36
101	Two quantum walkers sharing coins. <i>Physical Review A</i> , 2012 , 85,	2.6	35

100	Efficient quantum-key-distribution scheme with nonmaximally entangled states. <i>Physical Review A</i> , 2001 , 64,	2.6	35
99	Realization of the Contextuality-Nonlocality Tradeoff with a Qubit-Qutrit Photon Pair. <i>Physical Review Letters</i> , 2016 , 116, 090401	7.4	34
98	Observation of quasiperiodic dynamics in a one-dimensional quantum walk of single photons in space. <i>New Journal of Physics</i> , 2014 , 16, 053009	2.9	34
97	Quantum walks on circles in phase space via superconducting circuit quantum electrodynamics. <i>Physical Review A</i> , 2008 , 78,	2.6	34
96	One-dimensional quantum walks with single-point phase defects. <i>Physical Review A</i> , 2014 , 89,	2.6	30
95	Generalized teleportation by quantum walks. <i>Quantum Information Processing</i> , 2017 , 16, 1	1.6	30
94	Scalable preparation of multiple-particle entangled states via the cavity input-output process. <i>Physical Review A</i> , 2006 , 74,	2.6	30
93	Compact source of narrow-band counterpropagating polarization-entangled photon pairs using a single dual-periodically-poled crystal. <i>Physical Review A</i> , 2011 , 84,	2.6	28
92	Trapping photons on the line: controllable dynamics of a quantum walk. <i>Scientific Reports</i> , 2014 , 4, 4825	4.9	27
91	Higher winding number in a nonunitary photonic quantum walk. <i>Physical Review A</i> , 2018 , 98,	2.6	27
90	Scheme for implementing quantum dense coding via cavity QED. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 313, 351-355	2.3	26
89	Optimal experimental demonstration of error-tolerant quantum witnesses. <i>Physical Review A</i> , 2017 , 95,	2.6	23
88	Centrality measure based on continuous-time quantum walks and experimental realization. <i>Physical Review A</i> , 2017 , 95,	2.6	23
87	Entanglement-enhanced quantum metrology in a noisy environment. <i>Physical Review A</i> , 2018 , 97,	2.6	23
86	Detecting topological invariants and revealing topological phase transitions in discrete-time photonic quantum walks. <i>Physical Review A</i> , 2018 , 98,	2.6	22
85	Experimental implementation of a quantum walk on a circle with single photons. <i>Physical Review A</i> , 2017 , 95,	2.6	21
84	Localized state in a two-dimensional quantum walk on a disordered lattice. <i>Physical Review A</i> , 2015 , 92,	2.6	21
83	Conserved quantities in parity-time symmetric systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	20

82	Fixed Points and Dynamic Topological Phenomena in a Parity-Time-Symmetric Quantum Quench. <i>IScience</i> , 2019 , 20, 392-401	6.1	17
81	Experimental test of uncertainty relations for general unitary operators. <i>Optics Express</i> , 2017 , 25, 17904-17910	3.3	17
80	Quantum quincunx for walk on circles in phase space with indirect coin flip. <i>New Journal of Physics</i> , 2008 , 10, 053025	2.9	17
79	Multipartite entanglement preparation and quantum communication with atomic ensembles. <i>Physical Review A</i> , 2005 , 72,	2.6	17
78	A simple quantum voting scheme with multi-qubit entanglement. <i>Scientific Reports</i> , 2017 , 7, 7586	4.9	16
77	Entanglement preparation and quantum communication with atoms in optical cavities. <i>Physical Review A</i> , 2004 , 69,	2.6	16
76	Observation of Non-Bloch Parity-Time Symmetry and Exceptional Points. <i>Physical Review Letters</i> , 2021 , 126, 230402	7.4	16
75	Enhanced violations of Leggett-Garg inequalities in an experimental three-level system. <i>Optics Express</i> , 2017 , 25, 31462-31470	3.3	15
74	Quantum electrodynamics in a whispering-gallery microcavity coated with a polymer nanolayer. <i>Physical Review A</i> , 2010 , 81,	2.6	14
73	Universal quantum computing with semiconductor double-dot molecules on a chip. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 2601-2604	2.3	14
72	Experimental generalized contextuality with single-photon qubits. <i>Optica</i> , 2017 , 4, 966	8.6	13
71	Generation of polarization-entangled photon pairs via concurrent spontaneous parametric downconversions in a single (\mathbb{Z}) nonlinear photonic crystal. <i>Optics Letters</i> , 2012 , 37, 4374-6	3	13
70	Two-dimensional quantum walk with position-dependent phase defects. <i>Quantum Information Processing</i> , 2014 , 13, 1825-1839	1.6	11
69	Probing multipartite entanglement in a coupled Jaynes-Cummings system. <i>Physical Review A</i> , 2012 , 86,	2.6	11
68	Long-distance quantum communication in a decoherence-free subspace. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6859-6866	2.3	11
67	Linear optical demonstration of quantum speed-up with a single qudit. <i>Optics Express</i> , 2015 , 23, 18422-7	3.3	10
66	Experimental quantum cloning in a pseudo-unitary system. <i>Physical Review A</i> , 2020 , 101,	2.6	10
65	Discrete-time quantum walk with nitrogen-vacancy centers in diamond coupled to a superconducting flux qubit. <i>Physical Review A</i> , 2013 , 88,	2.6	10

64	Controlling and reversing the transition from classical diffusive to quantum ballistic transport in a quantum walk by driving the coin. <i>Physical Review A</i> , 2013 , 87,	2.6	10
63	Addendum to Efficient quantum-key-distribution scheme with nonmaximally entangled states \square <i>Physical Review A</i> , 2002 , 65,	2.6	10
62	Efficient multiuser quantum cryptography network based on entanglement. <i>Scientific Reports</i> , 2017 , 7, 45928	4.9	9
61	Reducing the communication complexity with quantum entanglement. <i>Physical Review A</i> , 2001 , 64,	2.6	9
60	Quantum information dynamics in a high-dimensional parity-time-symmetric system. <i>Physical Review A</i> , 2020 , 102,	2.6	9
59	Experimental demonstration of one-sided device-independent self-testing of any pure two-qubit entangled state. <i>Physical Review A</i> , 2020 , 101,	2.6	8
58	Violations of a Leggett-Garg inequality without signaling for a photonic qutrit probed with ambiguous measurements. <i>Physical Review A</i> , 2018 , 97,	2.6	8
57	Experimental Detection of Information Deficit in a Photonic Contextuality Scenario. <i>Physical Review Letters</i> , 2017 , 119, 220403	7.4	8
56	Secure direct communication using the \square polarization \square entangled atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 711-722	1.3	8
55	Non-Markovian decoherent quantum walks. <i>Chinese Physics B</i> , 2013 , 22, 070302	1.2	7
54	Implementation of a one-dimensional quantum walk in both position and phase spaces. <i>Chinese Physics B</i> , 2014 , 23, 010301	1.2	7
53	Spin-squeezing property of weighted graph states. <i>Physical Review A</i> , 2012 , 86,	2.6	7
52	Disorder and decoherence in coined quantum walks. <i>Chinese Physics B</i> , 2013 , 22, 110312	1.2	7
51	Implementation of Multi-Walker Quantum Walks with Cavity Grid. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1606-1612	0.3	7
50	A Controlled Phase Gate with Nitrogen-Vacancy Centers in Nanocrystal Coupled to a Silica Microsphere Cavity. <i>Chinese Physics Letters</i> , 2010 , 27, 060301	1.8	7
49	Implementing Entanglement Swapping with Trapped Atoms via Cavity Decay. <i>Chinese Physics Letters</i> , 2004 , 21, 1525-1528	1.8	7
48	Simulating Exceptional Non-Hermitian Metals with Single-Photon Interferometry. <i>Physical Review Letters</i> , 2021 , 127, 026404	7.4	7
47	Properties of long quantum walks in one and two dimensions. <i>Quantum Information Processing</i> , 2015 , 14, 4361-4394	1.6	6

46	Many-body interactions with single-electron quantum dots for topological quantum computation. <i>Physical Review A</i> , 2010 , 81,	2.6	6
45	A Controlled Quantum Key Distribution Scheme with Three-Particle Entanglement. <i>Chinese Physics Letters</i> , 2003 , 20, 183-185	1.8	6
44	Non-Hermitian Kibble-Zurek Mechanism with Tunable Complexity in Single-Photon Interferometry. <i>PRX Quantum</i> , 2021 , 2,	6.1	6
43	Experimental test of a stronger multiobservable uncertainty relation. <i>Physical Review A</i> , 2018 , 98,	2.6	6
42	Disordered quantum walks in two-dimensional lattices. <i>Chinese Physics B</i> , 2015 , 24, 010303	1.2	5
41	Irreversibility of a quantum walk induced by controllable decoherence employing random unitary operations. <i>Chinese Physics B</i> , 2012 , 21, 040304	1.2	5
40	High-fidelity quantum memory realized via Wigner crystals of polar molecules. <i>Chinese Physics B</i> , 2012 , 21, 010308	1.2	5
39	Simulation of the ground states of spin rings with cavity-assisted neutral atoms. <i>Scientific Reports</i> , 2015 , 5, 7623	4.9	4
38	Experimental realization of one-dimensional optical quantum walks. <i>Chinese Physics B</i> , 2014 , 23, 110307	1.2	4
37	Decoherence-free spin entanglement generation and purification in nanowire double quantum dots. <i>Chinese Physics B</i> , 2011 , 20, 100310	1.2	4
36	Nearest-neighbor coupling asymmetry in the generation of cluster states in a charge-qubit structure. <i>Physical Review B</i> , 2010 , 82,	3.3	4
35	Quantum Computing via Singlet-Triplet Spin Qubits in Nanowire Double Quantum Dots. <i>Chinese Physics Letters</i> , 2011 , 28, 070305	1.8	4
34	Improved frequency standard via weighted graph states. <i>Chinese Physics B</i> , 2012 , 21, 100306	1.2	4
33	Experimental realization of continuous-time quantum walks on directed graphs and their application in PageRank. <i>Optica</i> , 2020 , 7, 1524	8.6	4
32	Experimental orthogonalization of highly overlapping quantum states with single photons. <i>Physical Review A</i> , 2019 , 100,	2.6	3
31	Non-Markovian dynamics of spin squeezing. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 1328-1332	2.3	3
30	Universal quantum computing with nanowire double quantum dots. <i>Physica Scripta</i> , 2011 , 84, 045002	2.6	3
29	Direct experimental test of forward and reverse uncertainty relations. <i>Physical Review Research</i> , 2020 , 2,	3.9	3

28	Detecting Non-Bloch Topological Invariants in Quantum Dynamics.. <i>Physical Review Letters</i> , 2021 , 127, 270602	7.4	3
27	Observation of non-Hermitian topological Anderson insulator in quantum dynamics. <i>Nature Communications</i> , 2022 , 13,	17.4	3
26	Experimental linear-optics simulation of ground-state of an Ising spin chain. <i>Scientific Reports</i> , 2017 , 7, 2183	4.9	2
25	Entangling Gate of Dipolar Molecules Coupled to a Photonic Crystal. <i>Chinese Physics Letters</i> , 2011 , 28, 050307	1.8	2
24	Three-party quantum communication complexity via entangled tripartite pure states. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2001 , 3, 219-222		2
23	Experimental investigation of a stronger multi-observable uncertainty relation with single photons 2018 ,		2
22	Quantum deleting and cloning in a pseudo-unitary system. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	2
21	Quantum walks with coins undergoing different quantum noisy channels. <i>Chinese Physics B</i> , 2016 , 25, 010501	1.2	2
20	Implementing arbitrary coined two-dimensional quantum walks via bulk optical interferometry. <i>Optics Communications</i> , 2018 , 426, 558-561	2	2
19	Experimental realization of a quantum image classifier via tensor-network-based machine learning. <i>Photonics Research</i> ,	6	2
18	Experimental entropic test of state-independent contextuality via single photons. <i>Physical Review A</i> , 2020 , 101,	2.6	1
17	Experimental demonstration of quantum-to-quantum Bernoulli factory. <i>Physical Review A</i> , 2020 , 102,	2.6	1
16	Cavity-assisted quantum computing in a silicon nanostructure. <i>Chinese Physics B</i> , 2014 , 23, 050307	1.2	1
15	Bipartite entanglement purification with neutral atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6325-6333	2.3	1
14	Efficient scheme for multipartite entanglement and quantum information processing using atomic ensembles. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 319, 225-232	2.3	1
13	Nondeterministic scheme for preparation of nonmaximal entanglement between two atomic ensembles. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2004 , 21, 1358	1.7	1
12	A Two-Party Probabilistic Communication Complexity Scenario via Werner States. <i>Chinese Physics Letters</i> , 2001 , 18, 1305-1307	1.8	1
11	Disorder in parity-time symmetric quantum walks. <i>Chinese Physics B</i> ,	1.2	1

10	A two-dimensional quantum walk driven by a single two-side coin. <i>Chinese Physics B</i> , 2020 , 29, 110303	1.2	1
9	A quantum walk in phase space with resonator-assisted double quantum dots. <i>Chinese Physics B</i> , 2016 , 25, 020307	1.2	1
8	Stopping time of a one-dimensional bounded quantum walk. <i>Chinese Physics B</i> , 2016 , 25, 110304	1.2	1
7	Observation of the dynamics of an ergodic quantum protocol in a photonic realization. <i>New Journal of Physics</i> , 2021 , 23, 083008	2.9	1
6	Deterministic Search on Star Graphs via Quantum Walks.. <i>Physical Review Letters</i> , 2022 , 128, 050501	7.4	0
5	A proposal for preparation of cluster states with linear optics*. <i>Chinese Physics B</i> , 2021 , 30, 030306	1.2	0
4	Scheme for preparation of multi-partite entanglement of atomic ensembles. <i>Chinese Physics B</i> , 2016 , 25, 080305	1.2	0
3	Experimental demonstration of strong unitary uncertainty relations. <i>Optics Express</i> , 2021 , 29, 29567-29575	3.5	0
2	Quantum Memory via Wigner Crystals of Polar Molecules. <i>Chinese Physics Letters</i> , 2011 , 28, 120307	1.8	
1	A one-dimensional quantum walk with multiple-rotation on the coin. <i>Scientific Reports</i> , 2016 , 6, 20095	4.9	