

Peng Xue

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4441257/peng-xue-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Deterministic Search on Star Graphs via Quantum Walks.. <i>Physical Review Letters</i> , 2022 , 128, 050501	7.4	0
116	Observation of non-Hermitian topological Anderson insulator in quantum dynamics. <i>Nature Communications</i> , 2022 , 13,	17.4	3
115	A proposal for preparation of cluster states with linear optics*. <i>Chinese Physics B</i> , 2021 , 30, 030306	1.2	0
114	Non-Hermitian Kibble-Zurek Mechanism with Tunable Complexity in Single-Photon Interferometry. <i>PRX Quantum</i> , 2021 , 2,	6.1	6
113	Quantum deleting and cloning in a pseudo-unitary system. <i>Frontiers of Physics</i> , 2021 , 16, 1	3.7	2
112	Observation of Non-Bloch Parity-Time Symmetry and Exceptional Points. <i>Physical Review Letters</i> , 2021 , 126, 230402	7.4	16
111	Simulating Exceptional Non-Hermitian Metals with Single-Photon Interferometry. <i>Physical Review Letters</i> , 2021 , 127, 026404	7.4	7
110	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
109	Experimental demonstration of strong unitary uncertainty relations. <i>Optics Express</i> , 2021 , 29, 29567-29575	3.5	0
108	Detecting Non-Bloch Topological Invariants in Quantum Dynamics.. <i>Physical Review Letters</i> , 2021 , 127, 270602	7.4	3
107	Experimental entropic test of state-independent contextuality via single photons. <i>Physical Review A</i> , 2020 , 101,	2.6	1
106	Non-Hermitian bulkBoundary correspondence in quantum dynamics. <i>Nature Physics</i> , 2020 , 16, 761-766	16.2	178
105	Experimental demonstration of quantum-to-quantum Bernoulli factory. <i>Physical Review A</i> , 2020 , 102,	2.6	1
104	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
103	Experimental quantum cloning in a pseudo-unitary system. <i>Physical Review A</i> , 2020 , 101,	2.6	10
102	Conserved quantities in parity-time symmetric systems. <i>Physical Review Research</i> , 2020 , 2,	3.9	20
101	Direct experimental test of forward and reverse uncertainty relations. <i>Physical Review Research</i> , 2020 , 2,	3.9	3

100	Experimental realization of continuous-time quantum walks on directed graphs and their application in PageRank. <i>Optica</i> , 2020 , 7, 1524	8.6	4
99	A two-dimensional quantum walk driven by a single two-side coin. <i>Chinese Physics B</i> , 2020 , 29, 110303	1.2	1
98	Quantum information dynamics in a high-dimensional parity-time-symmetric system. <i>Physical Review A</i> , 2020 , 102,	2.6	9
97	Fixed Points and Dynamic Topological Phenomena in a Parity-Time-Symmetric Quantum Quench. <i>IScience</i> , 2019 , 20, 392-401	6.1	17
96	Observation of emergent momentum-time skyrmions in parity-time-symmetric non-unitary quench dynamics. <i>Nature Communications</i> , 2019 , 10, 2293	17.4	53
95	Experimental orthogonalization of highly overlapping quantum states with single photons. <i>Physical Review A</i> , 2019 , 100,	2.6	3
94	Observation of Critical Phenomena in Parity-Time-Symmetric Quantum Dynamics. <i>Physical Review Letters</i> , 2019 , 123, 230401	7.4	55
93	Simulating Dynamic Quantum Phase Transitions in Photonic Quantum Walks. <i>Physical Review Letters</i> , 2019 , 122, 020501	7.4	73
92	Entanglement-enhanced quantum metrology in a noisy environment. <i>Physical Review A</i> , 2018 , 97,	2.6	23
91	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
90	Detecting topological invariants and revealing topological phase transitions in discrete-time photonic quantum walks. <i>Physical Review A</i> , 2018 , 98,	2.6	22
89	Experimental investigation of a stronger multi-observable uncertainty relation with single photons 2018 ,		2
88	Higher winding number in a nonunitary photonic quantum walk. <i>Physical Review A</i> , 2018 , 98,	2.6	27
87	Experimental test of a stronger multiobservable uncertainty relation. <i>Physical Review A</i> , 2018 , 98,	2.6	6
86	Implementing arbitrary coined two-dimensional quantum walks via bulk optical interferometry. <i>Optics Communications</i> , 2018 , 426, 558-561	2	2
85	Efficient multiuser quantum cryptography network based on entanglement. <i>Scientific Reports</i> , 2017 , 7, 45928	4.9	9
84	Optimal experimental demonstration of error-tolerant quantum witnesses. <i>Physical Review A</i> , 2017 , 95,	2.6	23
83	Centrality measure based on continuous-time quantum walks and experimental realization. <i>Physical Review A</i> , 2017 , 95,	2.6	23

82	Detecting Topological Invariants in Nonunitary Discrete-Time Quantum Walks. <i>Physical Review Letters</i> , 2017 , 119, 130501	7.4	96
81	A simple quantum voting scheme with multi-qubit entanglement. <i>Scientific Reports</i> , 2017 , 7, 7586	4.9	16
80	Generalized teleportation by quantum walks. <i>Quantum Information Processing</i> , 2017 , 16, 1	1.6	30
79	Observation of topological edge states in parity-time-symmetric quantum walks. <i>Nature Physics</i> , 2017 , 13, 1117-1123	16.2	267
78	Experimental linear-optics simulation of ground-state of an Ising spin chain. <i>Scientific Reports</i> , 2017 , 7, 2183	4.9	2
77	Experimental Detection of Information Deficit in a Photonic Contextuality Scenario. <i>Physical Review Letters</i> , 2017 , 119, 220403	7.4	8
76	Experimental implementation of a quantum walk on a circle with single photons. <i>Physical Review A</i> , 2017 , 95,	2.6	21
75	Experimental test of uncertainty relations for general unitary operators. <i>Optics Express</i> , 2017 , 25, 17904-17910	3.3	17
74	Enhanced violations of Leggett-Garg inequalities in an experimental three-level system. <i>Optics Express</i> , 2017 , 25, 31462-31470	3.3	15
73	Experimental generalized contextuality with single-photon qubits. <i>Optica</i> , 2017 , 4, 966	8.6	13
72	Experimental investigation of the stronger uncertainty relations for all incompatible observables. <i>Physical Review A</i> , 2016 , 93,	2.6	41
71	Realization of the Contextuality-Nonlocality Tradeoff with a Qubit-Qutrit Photon Pair. <i>Physical Review Letters</i> , 2016 , 116, 090401	7.4	34
70	A quantum walk in phase space with resonator-assisted double quantum dots. <i>Chinese Physics B</i> , 2016 , 25, 020307	1.2	1
69	Quantum walks with coins undergoing different quantum noisy channels. <i>Chinese Physics B</i> , 2016 , 25, 010501	1.2	2
68	Stopping time of a one-dimensional bounded quantum walk. <i>Chinese Physics B</i> , 2016 , 25, 110304	1.2	1
67	A one-dimensional quantum walk with multiple-rotation on the coin. <i>Scientific Reports</i> , 2016 , 6, 20095	4.9	
66	Scheme for preparation of multi-partite entanglement of atomic ensembles. <i>Chinese Physics B</i> , 2016 , 25, 080305	1.2	0
65	Experimental quantum-walk revival with a time-dependent coin. <i>Physical Review Letters</i> , 2015 , 114, 140502	7.4	65

64	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
63	Linear optical demonstration of quantum speed-up with a single qudit. <i>Optics Express</i> , 2015 , 23, 18422-73,3	3.3	10
62	Simulation of the ground states of spin rings with cavity-assisted neutral atoms. <i>Scientific Reports</i> , 2015 , 5, 7623	4.9	4
61	Properties of long quantum walks in one and two dimensions. <i>Quantum Information Processing</i> , 2015 , 14, 4361-4394	1.6	6
60	Localized state in a two-dimensional quantum walk on a disordered lattice. <i>Physical Review A</i> , 2015 , 92,	2.6	21
59	Disordered quantum walks in two-dimensional lattices. <i>Chinese Physics B</i> , 2015 , 24, 010303	1.2	5
58	Trapping photons on the line: controllable dynamics of a quantum walk. <i>Scientific Reports</i> , 2014 , 4, 4825	4.9	27
57	One-dimensional quantum walks with single-point phase defects. <i>Physical Review A</i> , 2014 , 89,	2.6	30
56	Two-dimensional quantum walk with position-dependent phase defects. <i>Quantum Information Processing</i> , 2014 , 13, 1825-1839	1.6	11
55	Experimental realization of one-dimensional optical quantum walks. <i>Chinese Physics B</i> , 2014 , 23, 110307	1.2	4
54	Cavity-assisted quantum computing in a silicon nanostructure. <i>Chinese Physics B</i> , 2014 , 23, 050307	1.2	1
53	Implementation of a one-dimensional quantum walk in both position and phase spaces. <i>Chinese Physics B</i> , 2014 , 23, 010301	1.2	7
52	Perfect state transfer and efficient quantum routing: A discrete-time quantum-walk approach. <i>Physical Review A</i> , 2014 , 90,	2.6	38
51	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
50	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
49	Non-Markovian decoherent quantum walks. <i>Chinese Physics B</i> , 2013 , 22, 070302	1.2	7
48	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
47	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

46	Disorder and decoherence in coined quantum walks. <i>Chinese Physics B</i> , 2013 , 22, 110312	1.2	7
45	Implementation of Multi-Walker Quantum Walks with Cavity Grid. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013 , 10, 1606-1612	0.3	7
44	Spin-squeezing property of weighted graph states. <i>Physical Review A</i> , 2012 , 86,	2.6	7
43	Probing multipartite entanglement in a coupled Jaynes-Cummings system. <i>Physical Review A</i> , 2012 , 86,	2.6	11
42	Improved frequency standard via weighted graph states. <i>Chinese Physics B</i> , 2012 , 21, 100306	1.2	4
41	Generation of polarization-entangled photon pairs via concurrent spontaneous parametric downconversions in a single $\chi^{(2)}$ nonlinear photonic crystal. <i>Optics Letters</i> , 2012 , 37, 4374-6	3	13
40	Two quantum walkers sharing coins. <i>Physical Review A</i> , 2012 , 85,	2.6	35
39	Irreversibility of a quantum walk induced by controllable decoherence employing random unitary operations. <i>Chinese Physics B</i> , 2012 , 21, 040304	1.2	5
38	High-fidelity quantum memory realized via Wigner crystals of polar molecules. <i>Chinese Physics B</i> , 2012 , 21, 010308	1.2	5
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	Universal quantum computing with nanowire double quantum dots. <i>Physica Scripta</i> , 2011 , 84, 045002	2.6	3
35	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
34	Quantum Memory via Wigner Crystals of Polar Molecules. <i>Chinese Physics Letters</i> , 2011 , 28, 120307	1.8	
33	Entangling Gate of Dipolar Molecules Coupled to a Photonic Crystal. <i>Chinese Physics Letters</i> , 2011 , 28, 050307	1.8	2
32	Quantum Computing via Singlet-Triplet Spin Qubits in Nanowire Double Quantum Dots. <i>Chinese Physics Letters</i> , 2011 , 28, 070305	1.8	4
31	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
30	Quantum electrodynamics in a whispering-gallery microcavity coated with a polymer nanolayer. <i>Physical Review A</i> , 2010 , 81,	2.6	14
29	Many-body interactions with single-electron quantum dots for topological quantum computation. <i>Physical Review A</i> , 2010 , 81,	2.6	6

28	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
27	Dangling-bond charge qubit on a silicon surface. <i>New Journal of Physics</i> , 2010 , 12, 083018	2.9	46
26	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
25	Quantum walk on a line for a trapped ion. <i>Physical Review Letters</i> , 2009 , 103, 183602	7.4	61
24	Quantum walks on circles in phase space via superconducting circuit quantum electrodynamics. <i>Physical Review A</i> , 2008 , 78,	2.6	34
23	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
22	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
21	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
20	Universal quantum computation in decoherence-free subspace with neutral atoms. <i>Physical Review Letters</i> , 2006 , 97, 140501	7.4	66
19	Scalable preparation of multiple-particle entangled states via the cavity input-output process. <i>Physical Review A</i> , 2006 , 74,	2.6	30
18	Multipartite entanglement preparation and quantum communication with atomic ensembles. <i>Physical Review A</i> , 2005 , 72,	2.6	17
17	Secure direct communication using the [polarization]entangled atomic ensembles. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004 , 37, 711-722	1.3	8
16	Implementing Entanglement Swapping with Trapped Atoms via Cavity Decay. <i>Chinese Physics Letters</i> , 2004 , 21, 1525-1528	1.8	7
15	Entanglement preparation and quantum communication with atoms in optical cavities. <i>Physical Review A</i> , 2004 , 69,	2.6	16
14	Nonclassical photon pairs generated from a room-temperature atomic ensemble. <i>Physical Review A</i> , 2004 , 69,	2.6	36
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 Controlled Quantum Key Distribution Scheme with Three-Particle Entanglement. <i>Chinese Physics Letters</i> , 2003 , 20, 183-185	1.8	6
11	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

10	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
9	Scheme for preparation of multipartite entanglement of atomic ensembles. <i>Physical Review A</i> , 2003 , 67,	2.6	37
8	Addendum to Efficient quantum-key-distribution scheme with nonmaximally entangled states□ <i>Physical Review A</i> , 2002 , 65,	2.6	10
7	Conditional efficient multiuser quantum cryptography network. <i>Physical Review A</i> , 2002 , 65,	2.6	82
6	A Two-Party Probabilistic Communication Complexity Scenario via Werner States. <i>Chinese Physics Letters</i> , 2001 , 18, 1305-1307	1.8	1
5	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
4	Efficient quantum-key-distribution scheme with nonmaximally entangled states. <i>Physical Review A</i> , 2001 , 64,	2.6	35
3	Reducing the communication complexity with quantum entanglement. <i>Physical Review A</i> , 2001 , 64,	2.6	9
2	Disorder in parity-time symmetric quantum walks. <i>Chinese Physics B</i> ,	1.2	1
1	Experimental realization of a quantum image classifier via tensor-network-based machine learning. <i>Photonics Research</i> ,	6	2