Junjie Wu

List of Publications by Year
in descending order

39 papers	478 citations	759233 12 h-index	752698 20 g-index
39 all docs	39 docs citations	39 times ranked	465 citing authors

#	Article	IF	Citations
1	Bright 547-dimensional Hilbert-space entangled resource in 28-pair modes biphoton frequency comb from a reconfigurable silicon microring resonator. Chinese Physics B, 2022, 31, 024206.	1.4	1
2	Optimization of quantum light sources and four-wave mixing based on a reconfigurable silicon ring resonator. Optics Express, 2022, 30, 9992.	3.4	3
3	Variational quantum process tomography of unitaries. Physical Review A, 2022, 105, .	2.5	13
4	Continuous-time quantum walk based centrality testing on weighted graphs. Scientific Reports, 2022, 12, 6001.	3.3	4
5	Quantum algorithm and experimental demonstration for the subset sum problem. Science China Information Sciences, 2022, 65, .	4.3	4
6	PhotoniQLAB: a framework for simulating photonic quantum information processing experiments. Quantum Science and Technology, 2021, 6, 024001.	5.8	3
7	Implementing graph-theoretic quantum algorithms on a silicon photonic quantum walk processor. Science Advances, 2021, 7, .	10.3	50
8	General quantum Bernoulli factory: framework analysis and experiments. Quantum Science and Technology, 2021, 6, 045025.	5.8	0
9	Wave-Particle Duality Relation with a Quantum Which-Path Detector. Entropy, 2021, 23, 122.	2.2	3
10	Quingo: A Programming Framework for Heterogeneous Quantum-Classical Computing with NISQ Features. ACM Transactions on Quantum Computing, 2021, 2, 1-37.	4.3	3
11	Bright photon-pair source based on a silicon dual-Mach-Zehnder microring. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	19
12	Variational quantum circuits for quantum state tomography. Physical Review A, 2020, 101, .	2.5	24
13	Sample caching Markov chain Monte Carlo approach to boson sampling simulation. New Journal of Physics, 2020, 22, 033022.	2.9	4
14	A Bayesian validation approach to practical boson sampling. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	4
15	On-chip multiphoton Greenberger–Horne–Zeilinger state based on integrated frequency combs. Frontiers of Physics, 2020, 15, 1.	5.0	4
16	Hacking single-photon avalanche detectors in quantum key distribution via pulse illumination. Optics Express, 2020, 28, 25574.	3.4	11
17	Reconfigurable multiphoton entangled states based on quantum photonic chips. Optics Express, 2020, 28, 26792.	3.4	6
18	High-spectral-purity photon generation from a dual-interferometer-coupled silicon microring. Optics Letters, 2020, 45, 73.	3.3	35

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19	Robust countermeasure against detector control attack in a practical quantum key distribution system: comment. Optica, 2020, 7, 1391.	9.3	4
20	Near 100% spectral-purity photons from reconfigurable micro-rings. Chinese Physics B, 2020, 29, 114201.	1.4	3
21	Remote-controlled quantum computing by quantum entanglement. Optics Letters, 2020, 45, 6298.	3.3	7
22	Characterize and optimize the four-wave mixing in dual-interferometer coupled silicon microrings. Chinese Physics B, 2019, 28, 104211.	1.4	7
23	General-Purpose Quantum Circuit Simulator with Projected Entangled-Pair States and the Quantum Supremacy Frontier. Physical Review Letters, 2019, 123, 190501.	7.8	57
24	Optimal subsystem approach to multi-qubit quantum state discrimination and experimental investigation. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	5
25	A benchmark test of boson sampling on Tianhe-2 supercomputer. National Science Review, 2018, 5, 715-720.	9.5	41
26	Localization of two-particle quantum walk on glued-tree and its application in generating Bell states. Quantum Information Processing, 2016, 15, 3619-3635.	2.2	1
27	A graph isomorphism algorithm using signatures computed via quantum walk search model. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 115302.	2.1	10
28	An Enhanced Quantum PageRank Algorithm Integrated with Quantum Search. , 2014, , .		1
29	A memristor-based architecture combining memory and image processing. Science China Information Sciences, 2014, 57, 1-12.	4.3	16
30	Performing Stateful Logic on Memristor Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 682-686.	3.0	72
31	Parallel architecture and optimization for discrete-event simulation of spike neural networks. Science China Technological Sciences, 2013, 56, 509-517.	4.0	16
32	Multi-level programming of memristor in nanocrossbar. IEICE Electronics Express, 2013, 10, 20130013-20130013.	0.8	4
33	Hamming network circuits based on CMOS/memristor hybrid design. IEICE Electronics Express, 2013, 10, 20130404-20130404.	0.8	13
34	An enhanced classical approach to graph isomorphism using continuous-time quantum walk. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 045305.	2.1	14
35	Design of decoders based on memristors. , 2012, , .		1
36	A Unique Vertex Deleting Algorithm for Graph Isomorphism. , 2011, , .		1

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37	Parallel Data Reuse Theory for OpenMP Applications. , 2009, , .		2
38	SEMCS: A Precise Memory-Hierarchy Simulation Framework on Parallel Full-System Simulator. , 2009, , .		0
39	IPC-Based Cache Partitioning: An IPC-Oriented Dynamic Shared Cache Partitioning Mechanism. , 2008, , .		12