Junjie Wu

List of Publications by Year
in descending order

39	478	759233 12	752698 20
papers	citations	h-index	g-index

39	39	39	465
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performing Stateful Logic on Memristor Memory. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 682-686.	3.0	72
2	General-Purpose Quantum Circuit Simulator with Projected Entangled-Pair States and the Quantum Supremacy Frontier. Physical Review Letters, 2019, 123, 190501.	7.8	57
3	Implementing graph-theoretic quantum algorithms on a silicon photonic quantum walk processor. Science Advances, 2021, 7, .	10.3	50
4	A benchmark test of boson sampling on Tianhe-2 supercomputer. National Science Review, 2018, 5, 715-720.	9.5	41
5	High-spectral-purity photon generation from a dual-interferometer-coupled silicon microring. Optics Letters, 2020, 45, 73.	3.3	35
6	Variational quantum circuits for quantum state tomography. Physical Review A, 2020, 101, .	2.5	24
7	Bright photon-pair source based on a silicon dual-Mach-Zehnder microring. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	19
8	Parallel architecture and optimization for discrete-event simulation of spike neural networks. Science China Technological Sciences, 2013, 56, 509-517.	4.0	16
9	A memristor-based architecture combining memory and image processing. Science China Information Sciences, 2014, 57, 1-12.	4.3	16
10	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
11	Hamming network circuits based on CMOS/memristor hybrid design. IEICE Electronics Express, 2013, 10, 20130404-20130404.	0.8	13
12	Variational quantum process tomography of unitaries. Physical Review A, 2022, 105, .	2.5	13
13	IPC-Based Cache Partitioning: An IPC-Oriented Dynamic Shared Cache Partitioning Mechanism. , 2008, , .		12
14	Hacking single-photon avalanche detectors in quantum key distribution via pulse illumination. Optics Express, 2020, 28, 25574.	3.4	11
15	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
16	Characterize and optimize the four-wave mixing in dual-interferometer coupled silicon microrings. Chinese Physics B, 2019, 28, 104211.	1.4	7
17	Remote-controlled quantum computing by quantum entanglement. Optics Letters, 2020, 45, 6298.	3.3	7
18	Reconfigurable multiphoton entangled states based on quantum photonic chips. Optics Express, 2020, 28, 26792.	3.4	6

#	Article	IF	Citations
19	Optimal subsystem approach to multi-qubit quantum state discrimination and experimental investigation. Science China: Physics, Mechanics and Astronomy, 2018, 61, 1.	5.1	5
20	Multi-level programming of memristor in nanocrossbar. IEICE Electronics Express, 2013, 10, 20130013-20130013.	0.8	4
21	Sample caching Markov chain Monte Carlo approach to boson sampling simulation. New Journal of Physics, 2020, 22, 033022.	2.9	4
22	A Bayesian validation approach to practical boson sampling. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	4
23	On-chip multiphoton Greenbergerâ€”Horneâ€”Zeilinger state based on integrated frequency combs. Frontiers of Physics, 2020, 15, 1.	5.0	4
24	Robust countermeasure against detector control attack in a practical quantum key distribution system: comment. Optica, 2020, 7, 1391.	9.3	4
25	Continuous-time quantum walk based centrality testing on weighted graphs. Scientific Reports, 2022, 12, 6001.	3.3	4
26	Quantum algorithm and experimental demonstration for the subset sum problem. Science China Information Sciences, 2022, 65, .	4.3	4
27	PhotoniQLAB: a framework for simulating photonic quantum information processing experiments. Quantum Science and Technology, 2021, 6, 024001.	5.8	3
28	Wave-Particle Duality Relation with a Quantum Which-Path Detector. Entropy, 2021, 23, 122.	2.2	3
29	Near 100% spectral-purity photons from reconfigurable micro-rings. Chinese Physics B, 2020, 29, 114201.	1.4	3
30	Optimization of quantum light sources and four-wave mixing based on a reconfigurable silicon ring resonator. Optics Express, 2022, 30, 9992.	3.4	3
31	Quingo: A Programming Framework for Heterogeneous Quantum-Classical Computing with NISQ Features. ACM Transactions on Quantum Computing, 2021, 2, 1-37.	4.3	3
32	Parallel Data Reuse Theory for OpenMP Applications. , 2009, , .		2
33	A Unique Vertex Deleting Algorithm for Graph Isomorphism. , 2011, , .		1
34	Design of decoders based on memristors. , 2012, , .		1
35	An Enhanced Quantum PageRank Algorithm Integrated with Quantum Search. , 2014, , .		1
36	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

#	Article	IF	Citations
37	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
38	SEMCS: A Precise Memory-Hierarchy Simulation Framework on Parallel Full-System Simulator. , 2009, , .		0
39	General quantum Bernoulli factory: framework analysis and experiments. Quantum Science and Technology, 2021, 6, 045025.	5.8	0