

Joshua A Izaac

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

1,859
citations

759233

12
h-index

996975

15
g-index

20
all docs

20
docs citations

20
times ranked

1304
citing authors

#	ARTICLE	IF	CITATIONS
1	Graph isomorphism and Gaussian boson sampling. <i>Special Matrices</i> , 2021, 9, 166-196.	0.5	20
2	Quantum circuits with many photons on a programmable nanophotonic chip. <i>Nature</i> , 2021, 591, 54-60.	27.8	304
3	Fast Simulation of Bosonic Qubits via Gaussian Functions in Phase Space. <i>PRX Quantum</i> , 2021, 2, .	9.2	14
4	Variational quantum algorithm for molecular geometry optimization. <i>Physical Review A</i> , 2021, 104, .	2.5	15
5	Experimental Parity-Time Symmetric Quantum Walks for Centrality Ranking on Directed Graphs. <i>Physical Review Letters</i> , 2020, 125, 240501.	7.8	14
6	OpenFermion: the electronic structure package for quantum computers. <i>Quantum Science and Technology</i> , 2020, 5, 034014.	5.8	214
7	Applications of near-term photonic quantum computers: software and algorithms. <i>Quantum Science and Technology</i> , 2020, 5, 034010.	5.8	64
8	Production of photonic universal quantum gates enhanced by machine learning. <i>Physical Review A</i> , 2019, 100, .	2.5	37
9	Evaluating analytic gradients on quantum hardware. <i>Physical Review A</i> , 2019, 99, .	2.5	447
10	Machine learning method for state preparation and gate synthesis on photonic quantum computers. <i>Quantum Science and Technology</i> , 2019, 4, 024004.	5.8	89
11	The Walrus: a library for the calculation of hafnians, Hermite polynomials and Gaussian boson sampling. <i>Journal of Open Source Software</i> , 2019, 4, 1705.	4.6	39
12	Computational Quantum Mechanics. <i>Undergraduate Lecture Notes in Physics</i> , 2018, , .	0.1	31
13	Reconfigurable magnetic domain wall pinning using vortex-generated magnetic fields. <i>Applied Physics Letters</i> , 2017, 110, 182404.	3.3	4
14	People take more risks when wearing helmets, potentially negating safety benefits. <i>Science</i> , 2016, , .	12.6	0
15	Phase-modified CTQW unable to distinguish strongly regular graphs efficiently. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 265301.	2.1	6
16	pyCTQW: A continuous-time quantum walk simulator on distributed memory computers. <i>Computer Physics Communications</i> , 2015, 186, 81-92.	7.5	17
17	Strawberry Fields: A Software Platform for Photonic Quantum Computing. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 129.	0.0	151
18	Quantum Natural Gradient. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 269.	0.0	200

#	ARTICLE	IF	CITATIONS
19	Transfer learning in hybrid classical-quantum neural networks. Quantum - the Open Journal for Quantum Science, 0, 4, 340.	0.0	137
20	General parameter-shift rules for quantum gradients. Quantum - the Open Journal for Quantum Science, 0, 6, 677.	0.0	56