

# 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	Evaluating analytic gradients on quantum hardware. <i>Physical Review A</i> , 2019, 99, .	2.5	447
2	Quantum circuits with many photons on a programmable nanophotonic chip. <i>Nature</i> , 2021, 591, 54-60.	27.8	304
3	OpenFermion: the electronic structure package for quantum computers. <i>Quantum Science and Technology</i> , 2020, 5, 034014.	5.8	214
4	Quantum Natural Gradient. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 269.	0.0	200
5	Strawberry Fields: A Software Platform for Photonic Quantum Computing. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 129.	0.0	151
6	Transfer learning in hybrid classical-quantum neural networks. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 340.	0.0	137
7	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
8	Applications of near-term photonic quantum computers: software and algorithms. <i>Quantum Science and Technology</i> , 2020, 5, 034010.	5.8	64
9	General parameter-shift rules for quantum gradients. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 6, 677.	0.0	56
10	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
11	Production of photonic universal quantum gates enhanced by machine learning. <i>Physical Review A</i> , 2019, 100, .	2.5	37
12	Computational Quantum Mechanics. <i>Undergraduate Lecture Notes in Physics</i> , 2018, , .	0.1	31
13	Graph isomorphism and Gaussian boson sampling. <i>Special Matrices</i> , 2021, 9, 166-196.	0.5	20
14	pyCTQW: A continuous-time quantum walk simulator on distributed memory computers. <i>Computer Physics Communications</i> , 2015, 186, 81-92.	7.5	17
15	Variational quantum algorithm for molecular geometry optimization. <i>Physical Review A</i> , 2021, 104, .	2.5	15
16	Experimental Parity-Time Symmetric Quantum Walks for Centrality Ranking on Directed Graphs. <i>Physical Review Letters</i> , 2020, 125, 240501.	7.8	14
17	Fast Simulation of Bosonic Qubits via Gaussian Functions in Phase Space. <i>PRX Quantum</i> , 2021, 2, .	9.2	14
18	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

#	ARTICLE	IF	CITATIONS
19	Reconfigurable magnetic domain wall pinning using vortex-generated magnetic fields. Applied Physics Letters, 2017, 110, 182404.	3.3	4
20	People take more risks when wearing helmets, potentially negating safety benefits. Science, 2016, , .	12.6	0