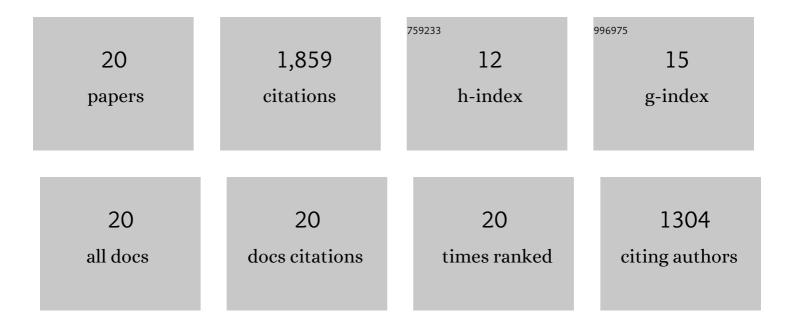
## Joshua A Izaac

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/8445005/publications.pdf

Version: 2024-02-01



IOSHIIA A IZAAC

#	Article	IF	CITATIONS
1	Evaluating analytic gradients on quantum hardware. Physical Review A, 2019, 99, .	2.5	447
2	Quantum circuits with many photons on a programmable nanophotonic chip. Nature, 2021, 591, 54-60.	27.8	304
3	OpenFermion: the electronic structure package for quantum computers. Quantum Science and Technology, 2020, 5, 034014.	5.8	214
4	Quantum Natural Gradient. Quantum - the Open Journal for Quantum Science, 0, 4, 269.	0.0	200
5	Strawberry Fields: A Software Platform for Photonic Quantum Computing. Quantum - the Open Journal for Quantum Science, 0, 3, 129.	0.0	151
6	Transfer learning in hybrid classical-quantum neural networks. Quantum - the Open Journal for Quantum Science, 0, 4, 340.	0.0	137
7	Machine learning method for state preparation and gate synthesis on photonic quantum computers. Quantum Science and Technology, 2019, 4, 024004.	5.8	89
8	Applications of near-term photonic quantum computers: software and algorithms. Quantum Science and Technology, 2020, 5, 034010.	5.8	64
9	General parameter-shift rules for quantum gradients. Quantum - the Open Journal for Quantum Science, 0, 6, 677.	0.0	56
10	The Walrus: a library for the calculation of hafnians, Hermite polynomials and Gaussian boson sampling. Journal of Open Source Software, 2019, 4, 1705.	4.6	39
11	Production of photonic universal quantum gates enhanced by machine learning. Physical Review A, 2019, 100, .	2.5	37
12	Computational Quantum Mechanics. Undergraduate Lecture Notes in Physics, 2018, , .	0.1	31
13	Graph isomorphism and Gaussian boson sampling. Special Matrices, 2021, 9, 166-196.	0.5	20
14	pyCTQW: A continuous-time quantum walk simulator on distributed memory computers. Computer Physics Communications, 2015, 186, 81-92.	7.5	17
15	Variational quantum algorithm for molecular geometry optimization. Physical Review A, 2021, 104, .	2.5	15
16	Experimental Parity-Time Symmetric Quantum Walks for Centrality Ranking on Directed Graphs. Physical Review Letters, 2020, 125, 240501.	7.8	14
17	Fast Simulation of Bosonic Qubits via Gaussian Functions in Phase Space. PRX Quantum, 2021, 2, .	9.2	14
18	Phase-modified CTQW unable to distinguish strongly regular graphs efficiently. Journal of Physics A: Mathematical and Theoretical, 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