

Gian Giacomo Guerreschi

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

906
citations

687363

13
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

1084
citing authors

#	ARTICLE	IF	CITATIONS
1	Boson sampling for molecular vibronic spectra. <i>Nature Photonics</i> , 2015, 9, 615-620.	31.4	230
2	Quantum Control and Entanglement in a Chemical Compass. <i>Physical Review Letters</i> , 2010, 104, 220502.	7.8	143
3	QAOA for Max-Cut requires hundreds of qubits for quantum speed-up. <i>Scientific Reports</i> , 2019, 9, 6903.	3.3	139
4	Resource-efficient digital quantum simulation of d-level systems for photonic, vibrational, and spin-s Hamiltonians. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	74
5	Intel Quantum Simulator: a cloud-ready high-performance simulator of quantum circuits. <i>Quantum Science and Technology</i> , 2020, 5, 034007.	5.8	55
6	Proposal for Microwave Boson Sampling. <i>Physical Review Letters</i> , 2016, 117, 140505.	7.8	40
7	Two-step approach to scheduling quantum circuits. <i>Quantum Science and Technology</i> , 2018, 3, 045003.	5.8	40
8	Motional effects on the efficiency of excitation transfer. <i>New Journal of Physics</i> , 2010, 12, 075019.	2.9	29
9	Efficient photon triplet generation in integrated nanophotonic waveguides. <i>Optics Express</i> , 2016, 24, 9932.	3.4	23
10	Faster than classical quantum algorithm for dense formulas of exact satisfiability and occupation problems. <i>New Journal of Physics</i> , 2016, 18, 073003.	2.9	21
11	Impact of qubit connectivity on quantum algorithm performance. <i>Quantum Science and Technology</i> , 2020, 5, 025009.	5.8	21
12	Approaches to Measuring Entanglement in Chemical Magnetometers. <i>Journal of Physical Chemistry A</i> , 2014, 118, 13-20.	2.5	16
13	Adiabatic quantum optimization in the presence of discrete noise: Reducing the problem dimensionality. <i>Physical Review A</i> , 2015, 92, .	2.5	15
14	Quantum Computer-Aided Design: Digital Quantum Simulation of Quantum Processors. <i>Physical Review Applied</i> , 2021, 16, .	3.8	12
15	Repeat-until-success circuits with fixed-point oblivious amplitude amplification. <i>Physical Review A</i> , 2019, 99, .	2.5	11
16	Multiple re-encounter approach to radical pair reactions and the role of nonlinear master equations. <i>Journal of Chemical Physics</i> , 2014, 141, 054107.	3.0	8
17	Evaluation of QAOA based on the approximation ratio of individual samples. <i>Quantum Science and Technology</i> , 2022, 7, 045014.	5.8	7
18	Persistent dynamic entanglement from classical motion: how bio-molecular machines can generate nontrivial quantum states. <i>New Journal of Physics</i> , 2012, 14, 053043.	2.9	6

#	ARTICLE	IF	CITATIONS
19	Optical switching of radical pair conformation enhances magnetic sensitivity. <i>Chemical Physics Letters</i> , 2013, 572, 106-110.	2.6	6
20	Fast simulation of quantum algorithms using circuit optimization. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 6, 706.	0.0	5
21	Quantum measures for density correlations in optical lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3516-3521.	2.1	2
22	On connectivity-dependent resource requirements for digital quantum simulation of d-level particles. , 2020, , .		2
23	Noise-induced interference fringes in trapped ultracold bosonic gases. <i>Physical Review A</i> , 2008, 78, .	2.5	1