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List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,336
citations

687363

13
h-index

752698

20
g-index

24
all docs

24
docs citations

24
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	Considerations for evaluating thermodynamic properties with hybrid quantum-classical computing work flows. <i>Physical Review A</i> , 2022, 105, .	2.5	5
2	Simulating a ring-like Hubbard system with a quantum computer. <i>Physical Review Research</i> , 2022, 4, .	3.6	10
3	Coarse-grained intermolecular interactions on quantum processors. <i>Physical Review A</i> , 2022, 105, .	2.5	3
4	Ancilla-free implementation of generalized measurements for qubits embedded in a qudit space. <i>Physical Review Research</i> , 2022, 4, .	3.6	14
5	Quantum algorithm for alchemical optimization in material design. <i>Chemical Science</i> , 2021, 12, 4345-4352.	7.4	14
6	Variational Learning for Quantum Artificial Neural Networks. <i>IEEE Transactions on Quantum Engineering</i> , 2021, 2, 1-10.	4.9	19
7	Microcanonical and finite-temperature <i>ab initio</i> molecular dynamics simulations on quantum computers. <i>Physical Review Research</i> , 2021, 3, .	3.6	26
8	Resource-efficient quantum algorithm for protein folding. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	62
9	Quantum HF/DFT-embedding algorithms for electronic structure calculations: Scaling up to complex molecular systems. <i>Journal of Chemical Physics</i> , 2021, 154, 114105.	3.0	29
10	Quantum-optimal-control-inspired ansatz for variational quantum algorithms. <i>Physical Review Research</i> , 2021, 3, .	3.6	37
11	Improved Accuracy on Noisy Devices by Nonunitary Variational Quantum Eigensolver for Chemistry Applications. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 3946-3954.	5.3	9
12	Learning to Measure: Adaptive Informationally Complete Generalized Measurements for Quantum Algorithms. <i>PRX Quantum</i> , 2021, 2, .	9.2	37
13	Entanglement production and convergence properties of the variational quantum eigensolver. <i>Physical Review A</i> , 2020, 102, .	2.5	13
14	Quantum orbital-optimized unitary coupled cluster methods in the strongly correlated regime: Can quantum algorithms outperform their classical equivalents?. <i>Journal of Chemical Physics</i> , 2020, 152, 124107.	3.0	91
15	Quantum implementation of an artificial feed-forward neural network. <i>Quantum Science and Technology</i> , 2020, 5, 044010.	5.8	46
16	Variational quantum simulation of ultrastrong light-matter coupling. <i>Physical Review Research</i> , 2020, 2, .	3.6	16
17	Quantum equation of motion for computing molecular excitation energies on a noisy quantum processor. <i>Physical Review Research</i> , 2020, 2, .	3.6	110
18	Variational learning for quantum artificial neural networks. , 2020, , .		12

#	ARTICLE	IF	CITATIONS
19	Nonunitary Operations for Ground-State Calculations in Near-Term Quantum Computers. Physical Review Letters, 2019, 123, 130501.	7.8	31
20	Quantum algorithms for electronic structure calculations: Particle-hole Hamiltonian and optimized wave-function expansions. Physical Review A, 2018, 98, .	2.5	214
21	Quantum optimization using variational algorithms on near-term quantum devices. Quantum Science and Technology, 2018, 3, 030503.	5.8	411
22	Algorithmic Error Mitigation Scheme for Current Quantum Processors. Quantum - the Open Journal for Quantum Science, 0, 5, 492.	0.0	24
23	Improving Variational Quantum Optimization using CVaR. Quantum - the Open Journal for Quantum Science, 0, 4, 256.	0.0	94
24	Improving readout in quantum simulations with repetition codes. Quantum Science and Technology, 0, , .	5.8	9