

Quantum computational chemistry

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Super-Resolution for Imagery Enhancement Using Variational Quantum Eigensolver. , 2019, , .		1
2	Noise Analysis of Quantum Approximate Optimization Algorithm on Weighted MAX-CUT. , 2019, , .		0
3	Efficient Step-Merged Quantum Imaginary Time Evolution Algorithm for Quantum Chemistry. Journal of Chemical Theory and Computation, 2020, 16, 6256-6266.	2.3	42
4	Digital Simulation of Topological Matter on Programmable Quantum Processors. Physical Review Letters, 2020, 125, 160503.	2.9	20
5	Simulating Periodic Systems on a Quantum Computer Using Molecular Orbitals. Journal of Chemical Theory and Computation, 2020, 16, 6904-6914.	2.3	27
6	Solving complex eigenvalue problems on a quantum annealer with applications to quantum scattering resonances. Physical Chemistry Chemical Physics, 2020, 22, 26136-26144.	1.3	16
7	Resource-efficient digital quantum simulation of d-level systems for photonic, vibrational, and spin-s Hamiltonians. Npj Quantum Information, 2020, 6, .	2.8	74
8	Quantum simulations employing connected moments expansions. Journal of Chemical Physics, 2020, 153, 201102.	1.2	17
9	Computational chemistry on quantum computers. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	8
10	Demonstration of Adiabatic Variational Quantum Computing with a Superconducting Quantum Coprocessor. Physical Review Letters, 2020, 125, 180501.	2.9	33
11	Very low overhead fault-tolerant magic state preparation using redundant ancilla encoding and flag qubits. Npj Quantum Information, 2020, 6, .	2.8	35
12	Exploring Hilbert space on a budget: Novel benchmark set and performance metric for testing electronic structure methods in the regime of strong correlation. Journal of Chemical Physics, 2020, 153, 104108.	1.2	15
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15	Quantum phase estimation for a class of generalized eigenvalue problems. Physical Review A, 2020, 102, .	1.0	21
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17	Quantum computation of silicon electronic band structure. Physical Chemistry Chemical Physics, 2020, 22, 21816-21822.	1.3	13
18	A probabilistic spin annihilation method for quantum chemical calculations on quantum computers. Physical Chemistry Chemical Physics, 2020, 22, 20990-20994.	1.3	5

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20	Chemistry on Quantum Computers with Virtual Quantum Subspace Expansion. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5425-5431.	2.3	20
21	Electronic structure with direct diagonalization on a D-wave quantum annealer. <i>Scientific Reports</i> , 2020, 10, 20753.	1.6	18
22	Quantum simulation of quantum field theories as quantum chemistry. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	36
23	Symmetry-Assisted Preparation of Entangled Many-Body States on a Quantum Computer. <i>Physical Review Letters</i> , 2020, 125, 230502.	2.9	27
24	Benchmarking Adaptive Variational Quantum Eigensolvers. <i>Frontiers in Chemistry</i> , 2020, 8, 606863.	1.8	28
25	Application of Quantum Computing to Biochemical Systems: A Look to the Future. <i>Frontiers in Chemistry</i> , 2020, 8, 587143.	1.8	28
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76	Quantum computation of dominant products in lithium-sulfur batteries. <i>Journal of Chemical Physics</i> , 2021, 154, 134115.	1.2	42
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91	Hybrid localized graph kernel for machine learning energy-related properties of molecules and solids. <i>Journal of Computational Chemistry</i> , 2021, 42, 1390-1401.	1.5	2

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