

Yuya O Nakagawa

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

652
citations

687363

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all docs

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27
times ranked

479
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical Energy Gradient for State-Averaged Orbital-Optimized Variational Quantum Eigensolvers and Its Application to a Photochemical Reaction. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 741-748.	5.3	13
2	Variational quantum simulation for periodic materials. <i>Physical Review Research</i> , 2022, 4, .	3.6	15
3	Nonnormal Hamiltonian dynamics in quantum systems and its realization on quantum computers. <i>Physical Review B</i> , 2022, 105, .	3.2	5
4	Calculating the Green's function of two-site fermionic Hubbard model in a photonic system. <i>New Journal of Physics</i> , 2022, 24, 043030.	2.9	4
5	Deep Variational Quantum Eigensolver: A Divide-And-Conquer Method for Solving a Larger Problem with Smaller Size Quantum Computers. <i>PRX Quantum</i> , 2022, 3, .	9.2	28
6	Calculating transition amplitudes by variational quantum deflation. <i>Physical Review Research</i> , 2022, 4, .	3.6	15
7	Molecular Structure Optimization Based on Electrons' Nuclei Quantum Dynamics Computation. <i>ACS Omega</i> , 2022, 7, 19784-19793.	3.5	6
8	Quadratic Clifford expansion for efficient benchmarking and initialization of variational quantum algorithms. <i>Physical Review Research</i> , 2022, 4, .	3.6	8
9	Penalty methods for a variational quantum eigensolver. <i>Physical Review Research</i> , 2021, 3, .	3.6	32
10	Variational quantum simulations of stochastic differential equations. <i>Physical Review A</i> , 2021, 103, .	2.5	22
11	Calculating nonadiabatic couplings and Berry's phase by variational quantum eigensolvers. <i>Physical Review Research</i> , 2021, 3, .	3.6	10
12	Deep variational quantum eigensolver for excited states and its application to quantum chemistry calculation of periodic materials. <i>Physical Review Research</i> , 2021, 3, .	3.6	14
13	Predicting excited states from ground state wavefunction by supervised quantum machine learning. <i>Machine Learning: Science and Technology</i> , 2020, 1, 045027.	5.0	13
14	Theory of analytical energy derivatives for the variational quantum eigensolver. <i>Physical Review Research</i> , 2020, 2, .	3.6	51
15	Calculation of the Green's function on near-term quantum computers. <i>Physical Review Research</i> , 2020, 2, .	3.6	48
16	Orbital optimized unitary coupled cluster theory for quantum computer. <i>Physical Review Research</i> , 2020, 2, .	3.6	66
17	Variational quantum algorithm for nonequilibrium steady states. <i>Physical Review Research</i> , 2020, 2, .	3.6	31
18	Scaling of the polarization amplitude in quantum many-body systems in one dimension. <i>Physical Review B</i> , 2018, 97, .	3.2	17

#	ARTICLE	IF	CITATIONS
19	Construction of Hamiltonians by supervised learning of energy and entanglement spectra. Physical Review B, 2018, 97, .	3.2	24
20	Page curves for general interacting systems. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
21	Chaos and relative entropy. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
22	Universality in volume-law entanglement of scrambled pure quantum states. Nature Communications, 2018, 9, 1635.	12.8	65
23	Numerical calculations on the relative entanglement entropy in critical spin chains. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 093104.	2.3	8
24	Capacity of entanglement and the distribution of density matrix eigenvalues in gapless systems. Physical Review B, 2017, 96, .	3.2	8
25	Fractional quantum Hall states of dipolar fermions in a strained optical lattice. Physical Review A, 2016, 94, .	2.5	3
26	Flux quench in a system of interacting spinless fermions in one dimension. Physical Review B, 2016, 93, .	3.2	12
27	Qulacs: a fast and versatile quantum circuit simulator for research purpose. Quantum - the Open Journal for Quantum Science, 0, 5, 559.	0.0	112