Yuya O Nakagawa

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9575302/publications.pdf

Version: 2024-02-01

27	652	687363 13	677142 22
papers	citations	h-index	g-index

27	27	27	479
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Qulacs: a fast and versatile quantum circuit simulator for research purpose. Quantum - the Open Journal for Quantum Science, 0, 5, 559.	0.0	112
2	Orbital optimized unitary coupled cluster theory for quantum computer. Physical Review Research, 2020, 2, .	3.6	66
3	Universality in volume-law entanglement of scrambled pure quantum states. Nature Communications, 2018, 9, 1635.	12.8	65
4	Theory of analytical energy derivatives for the variational quantum eigensolver. Physical Review Research, 2020, 2, .	3.6	51
5	Calculation of the Green's function on near-term quantum computers. Physical Review Research, 2020, 2, .	3.6	48
6	Penalty methods for a variational quantum eigensolver. Physical Review Research, 2021, 3, .	3.6	32
7	Variational quantum algorithm for nonequilibrium steady states. Physical Review Research, 2020, 2, .	3.6	31
8	Deep Variational Quantum Eigensolver: A Divide-And-Conquer Method for Solving a Larger Problem with Smaller Size Quantum Computers. PRX Quantum, 2022, 3, .	9.2	28
9	Construction of Hamiltonians by supervised learning of energy and entanglement spectra. Physical Review B, 2018, 97, .	3.2	24
10	Variational quantum simulations of stochastic differential equations. Physical Review A, 2021, 103, .	2.5	22
11	Scaling of the polarization amplitude in quantum many-body systems in one dimension. Physical Review B, 2018, 97, .	3.2	17
12	Page curves for general interacting systems. Journal of High Energy Physics, 2018, 2018, 1.	4.7	15
13	Variational quantum simulation for periodic materials. Physical Review Research, 2022, 4, .	3.6	15
14	Calculating transition amplitudes by variational quantum deflation. Physical Review Research, 2022, 4, .	3.6	15
15	Deep variational quantum eigensolver for excited states and its application to quantum chemistry calculation of periodic materials. Physical Review Research, 2021, 3, .	3.6	14
16	Predicting excited states from ground state wavefunction by supervised quantum machine learning. Machine Learning: Science and Technology, 2020, 1, 045027.	5.0	13
17	Analytical Energy Gradient for State-Averaged Orbital-Optimized Variational Quantum Eigensolvers and Its Application to a Photochemical Reaction. Journal of Chemical Theory and Computation, 2022, 18, 741-748.	5.3	13
18	Flux quench in a system of interacting spinless fermions in one dimension. Physical Review B, 2016, 93, .	3.2	12

#	Article	IF	Citations
19	Calculating nonadiabatic couplings and Berry's phase by variational quantum eigensolvers. Physical Review Research, 2021, 3, .	3.6	10
20	Numerical calculations on the relative entanglement entropy in critical spin chains. Journal of Statistical Mechanics: Theory and Experiment, 2017, 2017, 093104.	2.3	8
21	Capacity of entanglement and the distribution of density matrix eigenvalues in gapless systems. Physical Review B, 2017, 96, .	3.2	8
22	Quadratic Clifford expansion for efficient benchmarking and initialization of variational quantum algorithms. Physical Review Research, 2022, 4, .	3.6	8
23	Chaos and relative entropy. Journal of High Energy Physics, 2018, 2018, 1.	4.7	7
24	Molecular Structure Optimization Based on Electronsâ€“Nuclei Quantum Dynamics Computation. ACS Omega, 2022, 7, 19784-19793.	3.5	6
25	Nonnormal Hamiltonian dynamics in quantum systems and its realization on quantum computers. Physical Review B, 2022, 105, .	3.2	5
26	Calculating the Greenâ€™s function of two-site fermionic Hubbard model in a photonic system. New Journal of Physics, 2022, 24, 043030.	2.9	4
27	Fractional quantum Hall states of dipolar fermions in a strained optical lattice. Physical Review A, 2016, 94, .	2.5	3