

Kosuke Mitarai

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

2,407
citations

623734

14
h-index

839539

18
g-index

21
all docs

21
docs citations

21
times ranked

1095
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational quantum algorithms. <i>Nature Reviews Physics</i> , 2021, 3, 625-644.	26.6	930
2	Quantum circuit learning. <i>Physical Review A</i> , 2018, 98, .	2.5	643
3	Subspace-search variational quantum eigensolver for excited states. <i>Physical Review Research</i> , 2019, 1, .	3.6	178
4	Qulacs: a fast and versatile quantum circuit simulator for research purpose. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 559.	0.0	112
5	Methodology for replacing indirect measurements with direct measurements. <i>Physical Review Research</i> , 2019, 1, .	3.6	93
6	Boosting Computational Power through Spatial Multiplexing in Quantum Reservoir Computing. <i>Physical Review Applied</i> , 2019, 11, .	3.8	77
7	Orbital optimized unitary coupled cluster theory for quantum computer. <i>Physical Review Research</i> , 2020, 2, .	3.6	66
8	Theory of analytical energy derivatives for the variational quantum eigensolver. <i>Physical Review Research</i> , 2020, 2, .	3.6	51
9	Quantum analog-digital conversion. <i>Physical Review A</i> , 2019, 99, .	2.5	49
10	Variational quantum algorithm for nonequilibrium steady states. <i>Physical Review Research</i> , 2020, 2, .	3.6	31
11	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
12	Constructing a virtual two-qubit gate by sampling single-qubit operations. <i>New Journal of Physics</i> , 2021, 23, 023021.	2.9	24
13	Experimental quantum kernel trick with nuclear spins in a solid. <i>Npj Quantum Information</i> , 2021, 7, .	6.7	24
14	Generalization of the Output of a Variational Quantum Eigensolver by Parameter Interpolation with a Low-depth Ansatz. <i>Physical Review Applied</i> , 2019, 11, .	3.8	18
15	Learning temporal data with a variational quantum recurrent neural network. <i>Physical Review A</i> , 2021, 103, .	2.5	17
16	Computational power of one- and two-dimensional dual-unitary quantum circuits. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 6, 631.	0.0	17
17	Overhead for simulating a non-local channel with local channels by quasiprobability sampling. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 388.	0.0	16
18	Calculating transition amplitudes by variational quantum deflation. <i>Physical Review Research</i> , 2022, 4, .	3.6	15

#	ARTICLE	IF	CITATIONS
19	An advanced 2D method enabling thermal conductivity measurement for various sample thicknesses: From thin films to bulk materials. <i>Journal of Applied Physics</i> , 2020, 128, 015102.	2.5	10
20	Toward NMR Quantum Reservoir Computing. <i>Natural Computing Series</i> , 2021, , 451-458.	2.2	4
21	Sampling-based quasiprobability simulation for fault-tolerant quantum error correction on the surface codes under coherent noise. <i>Physical Review Research</i> , 2021, 3, .	3.6	4