Kosuke Mitarai

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	Calculating transition amplitudes by variational quantum deflation. Physical Review Research, 2022, 4,	3.6	15
3	Constructing a virtual two-qubit gate by sampling single-qubit operations. New Journal of Physics, 2021, 23, 023021.	2.9	24
4	Learning temporal data with a variational quantum recurrent neural network. Physical Review A, 2021, 103, .	2.5	17
5	Experimental quantum kernel trick with nuclear spins in a solid. Npj Quantum Information, 2021, 7, .	6.7	24
6	Variational quantum algorithms. Nature Reviews Physics, 2021, 3, 625-644.	26.6	930
7	Toward NMR Quantum Reservoir Computing. Natural Computing Series, 2021, , 451-458.	2.2	4
8	Sampling-based quasiprobability simulation for fault-tolerant quantum error correction on the surface codes under coherent noise. Physical Review Research, 2021, 3, .	3.6	4
9	An advanced 2ω method enabling thermal conductivity measurement for various sample thicknesses: From thin films to bulk materials. Journal of Applied Physics, 2020, 128, 015102.	2.5	10
10	Theory of analytical energy derivatives for the variational quantum eigensolver. Physical Review Research, 2020, 2, .	3.6	51
11	Orbital optimized unitary coupled cluster theory for quantum computer. Physical Review Research, 2020, 2, .	3.6	66
12	Variational quantum algorithm for nonequilibrium steady states. Physical Review Research, 2020, 2, .	3.6	31
13	Generalization of the Output of a Variational Quantum Eigensolver by Parameter Interpolation with a Low-depth Ansatz. Physical Review Applied, 2019, 11, .	3.8	18
14	Boosting Computational Power through Spatial Multiplexing in Quantum Reservoir Computing. Physical Review Applied, 2019, 11, .	3.8	77
15	Quantum analog-digital conversion. Physical Review A, 2019, 99, .	2.5	49
16	Methodology for replacing indirect measurements with direct measurements. Physical Review Research, 2019, 1, .	3.6	93
17	Subspace-search variational quantum eigensolver for excited states. Physical Review Research, 2019, 1,	3.6	178
10	Oversture singuit learning Device A 2019 09		(12)

18 Quantum circuit learning. Physical Review A, 2018, 98, .

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#	Article	IF	CITATIONS
19	Overhead for simulating a non-local channel with local channels by quasiprobability sampling. Quantum - the Open Journal for Quantum Science, 0, 5, 388.	0.0	16
20	Qulacs: a fast and versatile quantum circuit simulator for research purpose. Quantum - the Open Journal for Quantum Science, 0, 5, 559.	0.0	112
21	Computational power of one- and two-dimensional dual-unitary quantum circuits. Quantum - the Open Journal for Quantum Science, 0, 6, 631.	0.0	17