Keisuke Fujii

List of Publications by Year
in descending order

44 papers	2,420 citations

304743

22
h-index

276875

41
g-index

44 all docs	44 docs citations

44
times ranked

1262
citing authors

#	Article	IF	Citations
1	Quantum Error Mitigation as a Universal Error Reduction Technique: Applications from the NISQ to the Fault-Tolerant Quantum Computing Eras. PRX Quantum, 2022, 3, .	9.2	38
2	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
3	Parent Hamiltonian as a benchmark problem for variational quantum eigensolvers. Physical Review A, 2022, 105, .	2.5	1
4	Quadratic Clifford expansion for efficient benchmarking and initialization of variational quantum algorithms. Physical Review Research, 2022, 4, .	3.6	8
5	Quantum Reservoir Computing: A Reservoir Approach Toward Quantum Machine Learning on Near-Term Quantum Devices. Natural Computing Series, 2021, , 423-450.	2.2	9
6	Learning temporal data with a variational quantum recurrent neural network. Physical Review A, 2021, 103, .	2.5	17
7	Comparative Study of Sampling-Based Simulation Costs of Noisy Quantum Circuits. Physical Review Applied, 2021, 15, .	3.8	4
8	Experimental quantum kernel trick with nuclear spins in a solid. Npj Quantum Information, 2021, 7, .	6.7	24
9	Quantum Neuromorphic Computing with Reservoir Computing Networks. Advanced Quantum Technologies, 2021, 4, 2100053.	3.9	25
10	Variational quantum algorithms. Nature Reviews Physics, 2021, 3, 625-644.	26.6	930
11	Quantum teleportation of physical qubits into logical code spaces. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
12	Toward NMR Quantum Reservoir Computing. Natural Computing Series, 2021, , 451-458.	2.2	4
13	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
14	Optimizing a quantum reservoir computer for time series prediction. Scientific Reports, 2020, 10, 14687.	3.3	33
15	Sequential minimal optimization for quantum-classical hybrid algorithms. Physical Review Research, 2020, 2, .	3.6	99
16	Variational quantum algorithm for nonequilibrium steady states. Physical Review Research, 2020, 2, .	3.6	31
17	Quantum self-learning Monte Carlo and quantum-inspired Fourier transform sampler. Physical Review Research, 2020, 2, .	3.6	3
18	Boosting Computational Power through Spatial Multiplexing in Quantum Reservoir Computing. Physical Review Applied, 2019, 11, .	3.8	77

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19	Methodology for replacing indirect measurements with direct measurements. Physical Review Research, 2019, 1, .	3.6	93
20	Subspace-search variational quantum eigensolver for excited states. Physical Review Research, 2019, 1, .	3.6	178
21	High-Threshold Fault-Tolerant Quantum Computation with Analog Quantum Error Correction. Physical Review X, 2018, 8, .	8.9	112
22	Impossibility of Classically Simulating One-Clean-Qubit Model with Multiplicative Error. Physical Review Letters, 2018, 120, 200502.	7.8	35
23	Verifiable fault tolerance in measurement-based quantum computation. Physical Review A, 2017, 96, .	2.5	32
24	Power of one nonclean qubit. Physical Review A, 2017, 95, .	2.5	7
25	Harnessing Disordered-Ensemble Quantum Dynamics for Machine Learning. Physical Review Applied, 2017, 8, .	3.8	152
26	Efficient Simulation of Quantum Error Correction Under Coherent Error Based on the Nonunitary Free-Fermionic Formalism. Physical Review Letters, 2017, 119, 190503.	7.8	11
27	Commuting quantum circuits and complexity of Ising partition functions. New Journal of Physics, 2017, 19, 033003.	2.9	29
28	Computational quantum-classical boundary of noisy commuting quantum circuits. Scientific Reports, 2016, 6, 25598.	3.3	14
29	Thresholds of surface codes on the general lattice structures suffering biased error and loss. , 2014, , .		0
30	Quantum algorithm for an additive approximation of Ising partition functions. Physical Review A, 2014, 90, .	2.5	8
31	Hardness of Classically Simulating the One-Clean-Qubit Model. Physical Review Letters, 2014, 112, 130502.	7.8	69
32	Measurement-Free Topological Protection Using Dissipative Feedback. Physical Review X, 2014, 4, .	8.9	23
33	Measurement-Based Quantum Computation on Symmetry Breaking Thermal States. Physical Review Letters, 2013, 110, 120502.	7.8	20
34	Quantum Information and Statistical Mechanics: An Introduction to Frontier. Interdisciplinary Information Sciences, 2013, 19, 1-15.	0.4	3
35	Blind topological measurement-based quantum computation. Nature Communications, 2012, 3, 1036.	12.8	91
36	Error and loss tolerances of surface codes with general lattice structures. Physical Review A, 2012, 86, .	2.5	29

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37	Computational power and correlation in a quantum computational tensor network. Physical Review A, 2012, 85, .	2.5	9
38	Duality analysis on random planar lattices. Physical Review E, 2012, 86, 051121.	2.1	11
39	Topologically protected measurement-based quantum computation on the thermal state of a nearest-neighbor two-body Hamiltonian with spin-3/2 particles. Physical Review A, 2012, 85, .	2.5	23
40	Robust and scalable scheme to generate large-scale entanglement webs. Physical Review A, 2011, 83, .	2.5	14
41	Cluster-based architecture for fault-tolerant quantum computation. Physical Review A, 2010, 81, .	2.5	15
42	Fault-Tolerant Topological One-Way Quantum Computation with Probabilistic Two-Qubit Gates. Physical Review Letters, 2010, 105, 250503.	7.8	37
43	Entanglement purification with double selection. Physical Review A, 2009, 80, .	2.5	32
44	Computational power of one- and two-dimensional dual-unitary quantum circuits. Quantum - the Open Journal for Quantum Science, 0, 6, 631.	0.0	17