# Keisuke Fujii

List of Publications by Year
in descending order

| 44 | 2,420 | 304743 | 276875 |
|:---:|:---:|:---:|:---:|
| papers | citations | 22 | 41 |
| | | h-index | g-index |

| 44 | 44 | 44 | 1262 |
|:---:|:---:|:---:|:---:|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Variational quantum algorithms. Nature Reviews Physics, 2021, 3, 625-644. | 26.6 | 930 |
| 2 | Subspace-search variational quantum eigensolver for excited states. Physical Review Research, 2019, 1, . | 3.6 | 178 |
| 3 | Harnessing Disordered-Ensemble Quantum Dynamics for Machine Learning. Physical Review Applied, 2017, 8, . | 3.8 | 152 |
| 4 | High-Threshold Fault-Tolerant Quantum Computation with Analog Quantum Error Correction. Physical Review X, 2018, 8, . | 8.9 | 112 |
| 5 | Sequential minimal optimization for quantum-classical hybrid algorithms. Physical Review Research, 2020, 2, . | 3.6 | 99 |
| 6 | Methodology for replacing indirect measurements with direct measurements. Physical Review Research, 2019, 1, . | 3.6 | 93 |
| 7 | Blind topological measurement-based quantum computation. Nature Communications, 2012, 3, 1036. | 12.8 | 91 |
| 8 | Boosting Computational Power through Spatial Multiplexing in Quantum Reservoir Computing. Physical Review Applied, 2019, 11, . | 3.8 | 77 |
| 9 | Hardness of Classically Simulating the One-Clean-Qubit Model. Physical Review Letters, 2014, 112, 130502. | 7.8 | 69 |
| 10 | 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 |
| 11 | Fault-Tolerant Topological One-Way Quantum Computation with Probabilistic Two-Qubit Gates. Physical Review Letters, 2010, 105, 250503. | 7.8 | 37 |
| 12 | Impossibility of Classically Simulating One-Clean-Qubit Model with Multiplicative Error. Physical Review Letters, 2018, 120, 200502. | 7.8 | 35 |
| 13 | Optimizing a quantum reservoir computer for time series prediction. Scientific Reports, 2020, 10, 14687. | 3.3 | 33 |
| 14 | Entanglement purification with double selection. Physical Review A, 2009, 80, . | 2.5 | 32 |
| 15 | Verifiable fault tolerance in measurement-based quantum computation. Physical Review A, 2017, 96, . | 2.5 | 32 |
| 16 | Variational quantum algorithm for nonequilibrium steady states. Physical Review Research, 2020, 2, . | 3.6 | 31 |
| 17 | Error and loss tolerances of surface codes with general lattice structures. Physical Review A, 2012, 86, . | 2.5 | 29 |
| 18 | Commuting quantum circuits and complexity of Ising partition functions. New Journal of Physics, 2017, 19, 033003. | 2.9 | 29 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 19 | 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 |
| 20 | Quantum Neuromorphic Computing with Reservoir Computing Networks. Advanced Quantum Technologies, 2021, 4, 2100053. | 3.9 | 25 |
| 21 | Experimental quantum kernel trick with nuclear spins in a solid. Npj Quantum Information, 2021, 7, . | 6.7 | 24 |
| 22 | 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 |
| 23 | Measurement-Free Topological Protection Using Dissipative Feedback. Physical Review X, 2014, 4, . | 8.9 | 23 |
| 24 | 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 |
| 25 | Measurement-Based Quantum Computation on Symmetry Breaking Thermal States. Physical Review Letters, 2013, 110, 120502. | 7.8 | 20 |
| 26 | Learning temporal data with a variational quantum recurrent neural network. Physical Review A, 2021, 103, . | 2.5 | 17 |
| 27 | Computational power of one- and two-dimensional dual-unitary quantum circuits. Quantum - the Open Journal for Quantum Science, 0, 6, 631. | 0.0 | 17 |
| 28 | Cluster-based architecture for fault-tolerant quantum computation. Physical Review A, 2010, 81, . | 2.5 | 15 |
| 29 | Robust and scalable scheme to generate large-scale entanglement webs. Physical Review A, 2011, 83, . | 2.5 | 14 |
| 30 | Computational quantum-classical boundary of noisy commuting quantum circuits. Scientific Reports, 2016, 6, 25598. | 3.3 | 14 |
| 31 | Duality analysis on random planar lattices. Physical Review E, 2012, 86, 051121. | 2.1 | 11 |
| 32 | 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 |
| 33 | Computational power and correlation in a quantum computational tensor network. Physical Review A, 2012, 85, . | 2.5 | 9 |
| 34 | Quantum Reservoir Computing: A Reservoir Approach Toward Quantum Machine Learning on Near-Term Quantum Devices. Natural Computing Series, 2021, , 423-450. | 2.2 | 9 |
| 35 | Quantum algorithm for an additive approximation of Ising partition functions. Physical Review A, 2014, 90, . | 2.5 | 8 |
| 36 | Quadratic Clifford expansion for efficient benchmarking and initialization of variational quantum algorithms. Physical Review Research, 2022, 4, . | 3.6 | 8 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 37 | Power of one nonclean qubit. Physical Review A, 2017, 95, . | 2.5 | 7 |
| 38 | Comparative Study of Sampling-Based Simulation Costs of Noisy Quantum Circuits. Physical Review Applied, 2021, 15, . | 3.8 | 4 |
| 39 | Toward NMR Quantum Reservoir Computing. Natural Computing Series, 2021, , 451-458. | 2.2 | 4 |
| 40 | 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 |
| 41 | Quantum Information and Statistical Mechanics: An Introduction to Frontier. Interdisciplinary Information Sciences, 2013, 19, 1-15. | 0.4 | 3 |
| 42 | Quantum self-learning Monte Carlo and quantum-inspired Fourier transform sampler. Physical Review Research, 2020, 2, . | 3.6 | 3 |
| 43 | Parent Hamiltonian as a benchmark problem for variational quantum eigensolvers. Physical Review A, 2022, 105, . | 2.5 | 1 |
| 44 | Thresholds of surface codes on the general lattice structures suffering biased error and loss. , 2014, , . | | 0 |