Ying Li

List of Publications by Year
in descending order

61 papers	3,232 citations	257450 24 h-index	168389 53 g-index
61 all docs	61 docs citations	61 times ranked	2387 citing authors

#	Article	IF	Citations
1	Dual-state purification for practical quantum error mitigation. Physical Review A, 2022, 105, .	2.5	22
2	Scalable Evaluation of Quantum-Circuit Error Loss Using Clifford Sampling. Physical Review Letters, 2021, 126, 080501.	7.8	4
3	Perturbative tomography of small errors in quantum gates. Physical Review A, 2021, 103, .	2.5	0
4	Gate-set tomography of fermionic systems using Majorana-fermion operations. Physical Review A, 2021, 103, .	2.5	0
5	Simulating Finite-Time Isothermal Processes with Superconducting Quantum Circuits. Entropy, 2021, 23, 353.	2.2	7
6	Self-consistent tomography of temporally correlated errors. Communications in Theoretical Physics, 2021, 73, 075101.	2.5	5
7	Simulation of memristive synapses and neuromorphic computing on a quantum computer. Physical Review Research, 2021, 3, .	3.6	8
8	Variational algorithms for linear algebra. Science Bulletin, 2021, 66, 2181-2188.	9.0	72
9	Learning-Based Quantum Error Mitigation. PRX Quantum, 2021, 2, .	9.2	82
10	Accelerated Quantum Monte Carlo with Mitigated Error on Noisy Quantum Computer. PRX Quantum, 2021, 2, .	9.2	15
11	Absorption and delayed reemission in an array of atoms strongly coupled to a waveguide. Physical Review A, 2020, 102, .	2.5	1
12	A queryâ€based quantum eigensolver. Quantum Engineering, 2020, 2, e49.	2.5	12
13	Variational Quantum Simulation of General Processes. Physical Review Letters, 2020, 125, 010501.	7.8	137
14	Error-mitigated quantum gates exceeding physical fidelities in a trapped-ion system. Nature Communications, 2020, 11, 587.	12.8	60
15	Quantum algorithm for the simulation of open-system dynamics and thermalization. Physical Review A, 2020, 101, .	2.5	13
16	Quantum computation with universal error mitigation on a superconducting quantum processor. Science Advances, 2019, 5, eaaw5686.	10.3	79
17	Variational ansatz-based quantum simulation of imaginary time evolution. Npj Quantum Information, 2019, 5, .	6.7	285
18	Modeling Quantum Devices and the Reconstruction of Physics in Practical Systems. Physical Review Letters, 2019, 123, 140405.	7.8	3

#	Article	IF	Citations
19	Mitigating algorithmic errors in a Hamiltonian simulation. Physical Review A, 2019, 99, .	2.5	40
20	16-qubit IBM universal quantum computer can be fully entangled. Npj Quantum Information, 2018, 4, .	6.7	100
21	Fault-tolerant fermionic quantum computation based on color code. Physical Review A, 2018, 98, .	2.5	10
22	Practical Quantum Error Mitigation for Near-Future Applications. Physical Review X, 2018, 8, .	8.9	317
23	One-dimensional quantum computing with a â€˜segmented chainâ€™ is feasible with todayâ€™s gate fidelities. Npj Quantum Information, 2018, 4, .	6.7	10
24	Detecting continuous spontaneous localization with charged bodies in a Paul trap. Physical Review A, 2017, 95, .	2.5	9
25	Double quantum dot memristor. Physical Review B, 2017, 96, .	3.2	15
26	Efficient Variational Quantum Simulator Incorporating Active Error Minimization. Physical Review X, 2017, 7, .	8.9	409
27	Learning time-dependent noise to reduce logical errors: real time error rate estimation in quantum error correction. New Journal of Physics, 2017, 19, 123032.	2.9	10
28	Hierarchical surface code for network quantum computing with modules of arbitrary size. Physical Review A, 2016, 94, .	2.5	13
29	Noise Threshold and Resource Cost of Fault-Tolerant Quantum Computing with Majorana Fermions in Hybrid Systems. Physical Review Letters, 2016, 117, 120403.	7.8	10
30	Interference-based molecular transistors. Scientific Reports, 2016, 6, 33686.	3.3	17
31	Stabilizers as a design tool for new forms of the Lechner-Hauke-Zoller annealer. Science Advances, 2016, 2, e1601246.	10.3	31
32	Quantum computation with noisy operations. Physical Review A, 2015, 91, .	2.5	3
33	Resource Costs for Fault-Tolerant Linear Optical Quantum Computing. Physical Review X, 2015, 5, .	8.9	57
34	â€˜Momentum rejuvenationâ€™ underlies the phenomenon of noise-assisted quantum energy flow. New Journal of Physics, 2015, 17, 013057.	2.9	18
35	A magic stateâ€™s fidelity can be superior to the operations that created it. New Journal of Physics, 2015, 17, 023037.	2.9	42
36	Electrically driven spin resonance in a bent disordered carbon nanotube. Physical Review B, 2014, 90, .	3.2	13

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37	Transitions in the quantum computational power. Physical Review A, 2014, 89, .	2.5	8
38	Measurement-Based Quantum Computation on Two-Body Interacting Qubits with Adiabatic Evolution. Physical Review Letters, 2014, 113, 180501.	7.8	8
39	Quasiparticle localisation via frequent measurements. Quantum Information and Computation, 2014, 14, 1136-1148.	0.3	1
40	A QUANTUM SIMULATOR FOR PROBING MOTT LOBES VIA THE AC JOSEPHSON EFFECT. International Journal of Quantum Information, 2013, 11, 1350049.	1.1	0
41	Photonic polarization gears for ultra-sensitive angular measurements. Nature Communications, 2013, 4, 2432.	12.8	257
42	Topological quantum computing with a very noisy network and local error rates approaching one percent. Nature Communications, 2013, 4, 1756.	12.8	144
43	Operator Quantum Zeno Effect: Protecting Quantum Information with Noisy Two-Qubit Interactions. Physical Review Letters, 2013, 110, 100505.	7.8	35
44	Quantum Zeno effect of general quantum operations. Physical Review A, 2013, 88, .	2.5	11
45	Long range failure-tolerant entanglement distribution. New Journal of Physics, 2013, 15, 023012.	2.9	21
46	Robust-Fidelity Atom-Photon Entangling Gates in the Weak-Coupling Regime. Physical Review Letters, 2012, 109, 160504.	7.8	48
47	High threshold distributed quantum computing with three-qubit nodes. New Journal of Physics, 2012, 14, 093008.	2.9	28
48	Long-distance entanglement generation with scalable and robust two-dimensional quantum network. Physical Review A, 2012, 85, .	2.5	6
49	THE PHOTON-LIKE FLYING QUBIT IN THE COUPLED CAVITY ARRAY. International Journal of Quantum Information, 2012, 10, 1250002.	1.1	0
50	Thermal States as Universal Resources for Quantum Computation with Always-On Interactions. Physical Review Letters, 2011, 107, 060501.	7.8	38
51	Photonic multiqubit states from a single atom. Physical Review A, 2011, 83, .	2.5	6
52	Fault Tolerant Quantum Computation with Nondeterministic Gates. Physical Review Letters, 2010, 105, 250502.	7.8	41
53	Exact results for the criticality of quench dynamics in quantum Ising models. Physical Review B, 2009, 80, .	3.2	8
54	The Peierls distorted chain as a quantum data bus for quantum state transfer. Europhysics Letters, 2008, 84, 30004.	2.0	38

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55	Atomic entanglement versus visibility of photon interference for quantum criticality of a hybrid system. Physical Review A, 2008, 77, .	2.5	24
56	Perfect Transfer of Many-Particle Quantum State via High-Dimensional Systems with Spectrum-Matched Symmetry. Communications in Theoretical Physics, 2007, 48, 445-448.	2.5	10
57	Quantum-state transmission via a spin ladder as a robust data bus. Physical Review A, 2005, 71, .	2.5	123
58	Quantum-state transfer characterized by mode entanglement. Physical Review A, 2005, 72, .	2.5	24
59	Characterizing entanglement by momentum jump in the frustrated Heisenberg ring at a quantum phase transition. Physical Review A, 2005, 72, .	2.5	33
60	Quantum-state transfer via the ferromagnetic chain in a spatially modulated field. Physical Review A, 2005, 71, .	2.5	146
61	Theory of variational quantum simulation. Quantum - the Open Journal for Quantum Science, 0, 3, 191.	0.0	245