

Man-Hong Yung

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,855
citations

201674

27
h-index

98798

67
g-index

76
all docs

76
docs citations

76
times ranked

3535
citing authors

#	ARTICLE	IF	CITATIONS
1	Landauer's principle in qubit-cavity quantum-field-theory interaction in vacuum and thermal states. Physical Review A, 2022, 105, .	2.5	4
2	Customizable Quantum Control via Stimulated Raman User-Defined Passage. Physical Review Applied, 2022, 17, .	3.8	5
3	Robust resource-efficient quantum variational ansatz through an evolutionary algorithm. Physical Review A, 2022, 105, .	2.5	15
4	Experimental cryptographic verification for near-term quantum cloud computing. Science Bulletin, 2021, 66, 23-28.	9.0	1
5	Coherent control with user-defined passage. Quantum Science and Technology, 2021, 6, 025002.	5.8	8
6	Robust stimulated Raman shortcut-to-adiabatic passage with invariant-based optimal control. Optics Express, 2021, 29, 7998.	3.4	14
7	Generic detection-based error mitigation using quantum autoencoders. Physical Review A, 2021, 103, .	2.5	9
8	Observation of exceptional point in a PT broken non-Hermitian system simulated using a quantum circuit. Scientific Reports, 2021, 11, 13795.	3.3	5
9	Error-resilient Floquet geometric quantum computation. Physical Review Research, 2021, 3, .	3.6	4
10	Experimental Quantum Target Detection Approaching the Fundamental Helstrom Limit. Physical Review Letters, 2021, 127, 040504.	7.8	14
11	Graph-connectivity-based strong quantum nonlocality with genuine entanglement. Physical Review A, 2021, 104, .	2.5	14
12	Super-robust nonadiabatic geometric quantum control. Physical Review Research, 2021, 3, .	3.6	12
13	Variational quantum packaged deflation for arbitrary excited states. Quantum Engineering, 2021, 3, e80.	2.5	12
14	Quantum speedup in adaptive boosting of binary classification. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	8
15	Low-depth quantum state preparation. Physical Review Research, 2021, 3, .	3.6	33
16	Superrobust Geometric Control of a Superconducting Circuit. Physical Review Applied, 2021, 16, .	3.8	13
17	Integrated Quantum-Walk Structure and NAND Tree on a Photonic Chip. Physical Review Letters, 2020, 125, 160502.	7.8	5
18	Leakage Suppression for Holonomic Quantum Gates. Physical Review Applied, 2020, 14, .	3.8	10

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19	One-shot detection limits of quantum illumination with discrete signals. Npj Quantum Information, 2020, 6, .	6.7	10
20	Cosmic censorship and the evolution of d -dimensional charged evaporating black holes. Physical Review D, 2020, 101, .	4.7	14
21	Steady Bell State Generation via Magnon-Photon Coupling. Physical Review Letters, 2020, 124, 053602.	7.8	132
22	Speedup in classical simulation of Gaussian boson sampling. Science Bulletin, 2020, 65, 832-841.	9.0	9
23	Enhancement of magnon-magnon entanglement inside a cavity. Physical Review B, 2020, 101, .	3.2	82
24	Nonadiabatic noncyclic geometric quantum computation in Rydberg atoms. Physical Review Research, 2020, 2, .	3.6	33
25	Quantum supremacy: some fundamental concepts. National Science Review, 2019, 6, 22-23.	9.5	10
26	Experimental Simultaneous Learning of Multiple Nonclassical Correlations. Physical Review Letters, 2019, 123, 190401.	7.8	25
27	Plug-and-Play Approach to Nonadiabatic Geometric Quantum Gates. Physical Review Letters, 2019, 123, 100501.	7.8	121
28	Incompatibility of observables as state-independent bound of uncertainty relations. Physical Review A, 2019, 100, .	2.5	9
29	Variational Quantum Simulation for Quantum Chemistry. Advanced Theory and Simulations, 2019, 2, 1800182.	2.8	26
30	Wiggling skyrmion propagation under parametric pumping. Physical Review B, 2019, 99, .	3.2	28
31	Necessity for quantum coherence of nondegeneracy in energy flow. Physical Review A, 2019, 99, .	2.5	4
32	Minimal nonorthogonal gate decomposition for qubits with limited control. Physical Review A, 2019, 99, .	2.5	2
33	Universal bound on sampling bosons in linear optics and its computational implications. National Science Review, 2019, 6, 719-729.	9.5	11
34	Experimental Realization of Nonadiabatic Shortcut to Non-Abelian Geometric Gates. Physical Review Letters, 2019, 122, 080501.	7.8	118
35	Optimal Mechanism for Randomized Responses under Universally Composable Security Measure. , 2019, , .		3
36	Anomalies in the switching dynamics of C-type antiferromagnets and antiferromagnetic nanowires. Physical Review Research, 2019, 1, .	3.6	3

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37	Neural-network-designed pulse sequences for robust control of singlet-triplet qubits. Physical Review A, 2018, 97, .	2.5	28
38	Simulation of molecular spectroscopy with circuit quantum electrodynamics. Science Bulletin, 2018, 63, 293-299.	9.0	14
39	Quantifying quantum coherence in experimentally observed neutrino oscillations. Physical Review A, 2018, 98, .	2.5	44
40	Automatic spin-chain learning to explore the quantum speed limit. Physical Review A, 2018, 97, .	2.5	47
41	Classification of magnetic forces acting on an antiferromagnetic domain wall. Physical Review B, 2018, 97, .	3.2	15
42	Spontaneous valley splitting and valley pseudospin field effect transistors of monolayer VAgP ₂ Se ₆ . Nanoscale, 2018, 10, 13986-13993.	5.6	50
43	Holevo bound of entropic uncertainty in Schwarzschild spacetime. European Physical Journal C, 2018, 78, 1.	3.9	38
44	Anomalous spin entanglement in nonequilibrium systems. Physical Review A, 2018, 98, .	2.5	2
45	Emergence of antiferromagnetic quantum domain walls. Physical Review B, 2018, 98, .	3.2	6
46	Experimental Machine Learning of Quantum States. Physical Review Letters, 2018, 120, 240501.	7.8	101
47	Experimental study of Forrelation in nuclear spins. Science Bulletin, 2017, 62, 497-502.	9.0	23
48	Quantum implementation of the unitary coupled cluster for simulating molecular electronic structure. Physical Review A, 2017, 95, .	2.5	222
49	Vibronic Boson Sampling: Generalized Gaussian Boson Sampling for Molecular Vibronic Spectra at Finite Temperature. Scientific Reports, 2017, 7, 7462.	3.3	48
50	Decoherence Control of Nitrogen-Vacancy Centers. Scientific Reports, 2017, 7, 11937.	3.3	10
51	Interaction-free measurement as quantum channel discrimination. Physical Review A, 2017, 96, .	2.5	5
52	Experimental perfect state transfer of an entangled photonic qubit. Nature Communications, 2016, 7, 11339.	12.8	96
53	Robust bidirectional links for photonic quantum networks. Science Advances, 2016, 2, e1500672.	10.3	17
54	Interferometric Activation of Quantum Dephasing Channels. , 2016, , .		0

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55	Time reversal and charge conjugation in an embedding quantum simulator. Nature Communications, 2015, 6, 7917.	12.8	29
56	Linear-algebraic bath transformation for simulating complex open quantum systems. New Journal of Physics, 2014, 16, 123008.	2.9	16
57	Why the quantitative condition fails to reveal quantum adiabaticity. New Journal of Physics, 2014, 16, 053023.	2.9	7
58	Demon-like algorithmic quantum cooling and its realization with quantum optics. Nature Photonics, 2014, 8, 113-118.	31.4	52
59	A variational eigenvalue solver on a photonic quantum processor. Nature Communications, 2014, 5, 4213.	12.8	2,210
60	Faster quantum chemistry simulation on fault-tolerant quantum computers. New Journal of Physics, 2012, 14, 115023.	2.9	91
61	A quantum "quantum Metropolis algorithm. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 754-759.	7.1	92
62	Digital quantum simulation of the statistical mechanics of a frustrated magnet. Nature Communications, 2012, 3, 880.	12.8	50
63	Exciton transport in thin-film cyanine dye J-aggregates. Journal of Chemical Physics, 2012, 137, 034109.	3.0	65
64	Simulating Chemistry Using Quantum Computers. Annual Review of Physical Chemistry, 2011, 62, 185-207.	10.8	224
65	Spin star as a switch for quantum networks. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 135504.	1.5	7
66	Solving Quantum Ground-State Problems with Nuclear Magnetic Resonance. Scientific Reports, 2011, 1, 88.	3.3	51
67	Wooing sea turtles back to China. Physics Today, 2010, 63, 12-12.	0.3	1
68	Simulation of classical thermal states on a quantum computer: A transfer-matrix approach. Physical Review A, 2010, 82, .	2.5	24
69	Quantum speed limit for perfect state transfer in one dimension. Physical Review A, 2006, 74, .	2.5	109
70	Processor Core Model for Quantum Computing. Physical Review Letters, 2006, 96, 220501.	7.8	28
71	Perfect state transfer, effective gates, and entanglement generation in engineered bosonic and fermionic networks. Physical Review A, 2005, 71, .	2.5	166
72	Emergence of Network Bifurcation Triggered by Entanglement. Quantum - the Open Journal for Quantum Science, 0, 3, 147.	0.0	0

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73	Strongly nonlocal unextendible product bases do exist. Quantum - the Open Journal for Quantum Science, 0, 6, 619.	0.0	19