Ming-Cheng Chen

List of Publications by Year
in descending order

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32 papers	6,649 citations	236925 25 h-index	414414 32 g-index
32 all docs	32 docs citations	32 times ranked	5978 citing authors

#	Article	IF	Citations
1	Quantum computational advantage via 60-qubit 24-cycle random circuit sampling. Science Bulletin, 2022, 67, 240-245.	9.0	114
2	Ruling Out Real-Valued Standard Formalism of Quantum Theory. Physical Review Letters, 2022, 128, 040403.	7.8	31
3	Quantum walks on a programmable two-dimensional 62-qubit superconducting processor. Science, 2021, 372, 948-952.	12.6	202
4	Directly Measuring a Multiparticle Quantum Wave Function via Quantum Teleportation. Physical Review Letters, 2021, 127, 030402.	7.8	7
5	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
6	Strong Quantum Computational Advantage Using a Superconducting Quantum Processor. Physical Review Letters, 2021, 127, 180501.	7.8	491
7	Phase-Programmable Gaussian Boson Sampling Using Stimulated Squeezed Light. Physical Review Letters, 2021, 127, 180502.	7.8	208
8	Observation of Intensity Squeezing in Resonance Fluorescence from a Solid-State Device. Physical Review Letters, 2020, 125, 153601.	7.8	11
9	Cloning of Quantum Entanglement. Physical Review Letters, 2020, 125, 210502.	7.8	7
10	Demonstration of Adiabatic Variational Quantum Computing with a Superconducting Quantum Coprocessor. Physical Review Letters, 2020, 125, 180501.	7.8	33
11	Quantum-Teleportation-Inspired Algorithm for Sampling Large Random Quantum Circuits. Physical Review Letters, 2020, 124, 080502.	7.8	14
12	Quantum computational advantage using photons. Science, 2020, 370, 1460-1463.	12.6	1,250
13	Quantum Interference between Light Sources Separated by 150 Million Kilometers. Physical Review Letters, 2019, 123, 080401.	7.8	57
14	Towards optimal single-photon sources from polarized microcavities. Nature Photonics, 2019, 13, 770-775.	31.4	290
15	Coherently driving a single quantum two-level system with dichromatic laser pulses. Nature Physics, 2019, 15, 941-946.	16.7	58
16	Genuine 12-Qubit Entanglement on a Superconducting Quantum Processor. Physical Review Letters, 2019, 122, 110501.	7.8	136
17	Boson Sampling with 20 Input Photons and a 60-Mode Interferometer in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:msup><mml:mn>0</mml:mn><mml:mn>14</mml:mn></mml:msup></mml:math>-Dimen Hilbert Space. Physical Review Letters, 2019, 123, 250503.	7.8	313
18	Experimental demonstration of quantum pigeonhole paradox. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 1549-1552.	7.1	13

#	Article	IF	Citations
19	Observation of Topologically Protected Edge States in a Photonic Two-Dimensional Quantum Walk. Physical Review Letters, 2018, 121, 100502.	7.8	86
20	18-Qubit Entanglement with Six Photonsâ€™ Three Degrees of Freedom. Physical Review Letters, 2018, 120, 260502.	7.8	274
21	Toward Scalable Boson Sampling with Photon Loss. Physical Review Letters, 2018, 120, 230502.	7.8	97
22	High-efficiency multiphoton boson sampling. Nature Photonics, 2017, 11, 361-365.	31.4	330
23	Quantum Image Processing and Its Application to Edge Detection: Theory and Experiment. Physical Review X, 2017, 7, .	8.9	59
24	Solving Systems of Linear Equations with a Superconducting Quantum Processor. Physical Review Letters, 2017, 118, 210504.	7.8	76
25	On-Demand Single Photons with High Extraction Efficiency and Near-Unity Indistinguishability from a Resonantly Driven Quantum Dot in a Micropillar. Physical Review Letters, 2016, 116, 020401.	7.8	675
26	Efficient Measurement of Multiparticle Entanglement with Embedding Quantum Simulator. Physical Review Letters, 2016, 116, 070502.	7.8	16
27	Near-Transform-Limited Single Photons from an Efficient Solid-State Quantum Emitter. Physical Review Letters, 2016, 116, 213601.	7.8	150
28	Quantum teleportation of multiple degrees of freedom of a single photon. Nature, 2015, 518, 516-519.	27.8	549
29	Single quantum emitters in monolayer semiconductors. Nature Nanotechnology, 2015, 10, 497-502.	31.5	749
30	Entanglement-Based Machine Learning on a Quantum Computer. Physical Review Letters, 2015, 114, 110504.	7.8	158
31	Indistinguishable Tunable Single Photons Emitted by Spin-Flip Raman Transitions in InGaAs Quantum Dots. Physical Review Letters, 2013, 111, 237403.	7.8	60
32	Experimental Quantum Computing to Solve Systems of Linear Equations. Physical Review Letters, 2013, 110, 230501.	7.8	114