

Zijun Chen

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

28 papers	5,776 citations	24 h-index	29 g-index
29 ext. papers	7,985 ext. citations	16.9 avg, IF	4.48 L-index

#	Paper	IF	Citations
28	Accurately computing the electronic properties of a quantum ring. <i>Nature</i> , 2021 , 594, 508-512	50.4	4
27	High speed flux sampling for tunable superconducting qubits with an embedded cryogenic transducer. <i>Superconductor Science and Technology</i> , 2019 , 32, 015012	3.1	10
26	Diabatic Gates for Frequency-Tunable Superconducting Qubits. <i>Physical Review Letters</i> , 2019 , 123, 210501	14	38
25	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , 2019 , 574, 505-510	50.4	1760
24	A blueprint for demonstrating quantum supremacy with superconducting qubits. <i>Science</i> , 2018 , 360, 195-199	33.3	205
23	A method for building low loss multi-layer wiring for superconducting microwave devices. <i>Applied Physics Letters</i> , 2018 , 112, 063502	3.4	27
22	Observation of Classical-Quantum Crossover of $1/f$ Flux Noise and Its Paramagnetic Temperature Dependence. <i>Physical Review Letters</i> , 2017 , 118, 057702	7.4	56
21	Spectroscopic signatures of localization with interacting photons in superconducting qubits. <i>Science</i> , 2017 , 358, 1175-1179	33.3	184
20	Chiral ground-state currents of interacting photons in a synthetic magnetic field. <i>Nature Physics</i> , 2017 , 13, 146-151	16.2	189
19	Characterization and reduction of capacitive loss induced by sub-micron Josephson junction fabrication in superconducting qubits. <i>Applied Physics Letters</i> , 2017 , 111, 022601	3.4	52
18	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , 2016 , 116, 020501	7.4	93
17	Scalable in situ qubit calibration during repetitive error detection. <i>Physical Review A</i> , 2016 , 94,	2.6	21
16	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-inequality. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	30
15	Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation. <i>Physical Review Letters</i> , 2016 , 117, 190503	7.4	59
14	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , 2016 , 534, 222-6	50.4	239
13	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , 2016 , 12, 1037-1041	16.2	154
12	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , 2015 , 519, 66-9	50.4	542

11	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , 2015 , 6, 7654	17.4	191
10	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , 2015 , 3,	4.3	39
9	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , 2014 , 508, 500-3	50.4	961
8	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , 2014 , 515, 241-4	50.4	120
7	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , 2014 , 112, 190504	7.4	200
6	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , 2014 , 112, 240504	7.4	118
5	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , 2014 , 90,	2.6	20
4	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , 2014 , 113, 220502	7.4	279
3	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014 , 105, 062601	3.4	68
2	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014 , 104, 052602	3.4	60
1	Design and characterization of a lumped element single-ended superconducting microwave parametric amplifier with on-chip flux bias line. <i>Applied Physics Letters</i> , 2013 , 103, 122602	3.4	57