

## List of Publications by Citations

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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	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , <b>2019</b> , 574, 505-510	50.4	1760
27	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , <b>2014</b> , 508, 500-3	50.4	961
26	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , <b>2015</b> , 519, 66-9	50.4	542
25	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , <b>2014</b> , 113, 220502	7.4	279
24	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , <b>2016</b> , 534, 222-6	50.4	239
23	A blueprint for demonstrating quantum supremacy with superconducting qubits. <i>Science</i> , <b>2018</b> , 360, 195-199	33.3	205
22	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , <b>2014</b> , 112, 190504	7.4	200
21	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , <b>2015</b> , 6, 7654	17.4	191
20	Chiral ground-state currents of interacting photons in a synthetic magnetic field. <i>Nature Physics</i> , <b>2017</b> , 13, 146-151	16.2	189
19	Spectroscopic signatures of localization with interacting photons in superconducting qubits. <i>Science</i> , <b>2017</b> , 358, 1175-1179	33.3	184
18	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , <b>2016</b> , 12, 1037-1041	16.2	154
17	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , <b>2014</b> , 515, 241-4	50.4	120
16	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , <b>2014</b> , 112, 240504	7.4	118
15	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , <b>2016</b> , 116, 020501	7.4	93
14	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 062601	3.4	68
13	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 052602	3.4	60
12	Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation. <i>Physical Review Letters</i> , <b>2016</b> , 117, 190503	7.4	59

11	Design and characterization of a lumped element single-ended superconducting microwave parametric amplifier with on-chip flux bias line. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 122602	3.4	57
10	Observation of Classical-Quantum Crossover of $1/f$ Flux Noise and Its Paramagnetic Temperature Dependence. <i>Physical Review Letters</i> , <b>2017</b> , 118, 057702	7.4	56
9	Characterization and reduction of capacitive loss induced by sub-micron Josephson junction fabrication in superconducting qubits. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 022601	3.4	52
8	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , <b>2015</b> , 3,	4.3	39
7	Diabatic Gates for Frequency-Tunable Superconducting Qubits. <i>Physical Review Letters</i> , <b>2019</b> , 123, 210501	7.4	38
6	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-inequality. <i>Npj Quantum Information</i> , <b>2016</b> , 2,	8.6	30
5	A method for building low loss multi-layer wiring for superconducting microwave devices. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 063502	3.4	27
4	Scalable in situ qubit calibration during repetitive error detection. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	21
3	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	20
2	High speed flux sampling for tunable superconducting qubits with an embedded cryogenic transducer. <i>Superconductor Science and Technology</i> , <b>2019</b> , 32, 015012	3.1	10
1	Accurately computing the electronic properties of a quantum ring. <i>Nature</i> , <b>2021</b> , 594, 508-512	50.4	4