

Daniel Sank

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.

40
papers

6,182
citations

30
h-index

40
g-index

40
ext. papers

8,511
ext. citations

13.2
avg, IF

4.56
L-index

#	Paper	IF	Citations
40	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , 2019 , 574, 505-510	50.4	1760
39	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , 2014 , 508, 500-3	50.4	961
38	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , 2015 , 519, 66-9	50.4	542
37	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , 2014 , 113, 220502	7.4	279
36	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012 , 100, 113510	3.4	264
35	A blueprint for demonstrating quantum supremacy with superconducting qubits. <i>Science</i> , 2018 , 360, 195-199	33.3	205
34	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , 2014 , 112, 190504	7.4	200
33	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , 2012 , 8, 719-723	16.2	194
32	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2011 , 99, 113507	3.4	147
31	Quantum process tomography of a universal entangling gate implemented with Josephson phase qubits. <i>Nature Physics</i> , 2010 , 6, 409-413	16.2	137
30	Improving the coherence time of superconducting coplanar resonators. <i>Applied Physics Letters</i> , 2009 , 95, 233508	3.4	121
29	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , 2014 , 515, 241-4	50.4	120
28	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , 2014 , 112, 240504	7.4	118
27	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , 2011 , 7, 287-293	16.2	103
26	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011 , 99, 113513	3.4	95
25	Quantum process tomography of two-qubit controlled-Z and controlled-NOT gates using superconducting phase qubits. <i>Physical Review B</i> , 2010 , 82,	3.3	76
24	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , 2014 , 112,	7.4	70

23	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014 , 105, 062601	3-4	68
22	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , 2011 , 84,	3-3	67
21	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014 , 104, 052602	3-4	60
20	Demonstrating a Continuous Set of Two-Qubit Gates for Near-Term Quantum Algorithms. <i>Physical Review Letters</i> , 2020 , 125, 120504	7-4	59
19	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
18	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012 , 101, 182601	3-4	53
17	Flux noise probed with real time qubit tomography in a Josephson phase qubit. <i>Physical Review Letters</i> , 2012 , 109, 067001	7-4	44
16	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , 2015 , 3,	4-3	39
15	Design and Characterization of a 28-nm Bulk-CMOS Cryogenic Quantum Controller Dissipating Less Than 2 mW at 3 K. <i>IEEE Journal of Solid-State Circuits</i> , 2019 , 54, 3043-3060	5-5	38
14	Diabatic Gates for Frequency-Tunable Superconducting Qubits. <i>Physical Review Letters</i> , 2019 , 123, 210501	7-4	38
13	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , 2013 , 110, 150502	7-4	37
12	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , 2013 , 103, 072601	3-4	34
11	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-Leggett-Garg inequality. <i>Npj Quantum Information</i> , 2016 , 2,	8-6	30
10	Compressed sensing quantum process tomography for superconducting quantum gates. <i>Physical Review B</i> , 2014 , 90,	3-3	29
9	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014 , 5, 5184	17-4	27
8	Realizing topologically ordered states on a quantum processor. <i>Science</i> , 2021 , 374, 1237-1241	33-3	21
7	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , 2014 , 90,	2-6	20
6	High fidelity qubit readout with the superconducting low-inductance undulatory galvanometer microwave amplifier. <i>Applied Physics Letters</i> , 2014 , 104, 152601	3-4	18

5	Information scrambling in quantum circuits. <i>Science</i> , 2021 , eabg5029	33.3	13
4	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
3	Quantum Computing: An Introduction for Microwave Engineers. <i>IEEE Microwave Magazine</i> , 2020 , 21, 24-44	1.2	10
2	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , 2012 , 85,	2.6	10
1	Time-Crystalline Eigenstate Order on a Quantum Processor. <i>Nature</i> , 2021 ,	50.4	8