

# Daniel Sank

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

10,507  
citations

117453

34  
h-index

288905

40  
g-index

40  
all docs

40  
docs citations

40  
times ranked

7039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum supremacy using a programmable superconducting processor. Nature, 2019, 574, 505-510.	13.7	4,148
2	Superconducting quantum circuits at the surface code threshold for fault tolerance. Nature, 2014, 508, 500-503.	13.7	1,270
3	State preservation by repetitive error detection in a superconducting quantum circuit. Nature, 2015, 519, 66-69.	13.7	682
4	Qubit Architecture with High Coherence and Fast Tunable Coupling. Physical Review Letters, 2014, 113, 220502.	2.9	387
5	Planar superconducting resonators with internal quality factors above one million. Applied Physics Letters, 2012, 100, .	1.5	341
6	A blueprint for demonstrating quantum supremacy with superconducting qubits. Science, 2018, 360, 195-199.	6.0	307
7	Fast Accurate State Measurement with Superconducting Qubits. Physical Review Letters, 2014, 112, 190504.	2.9	273
8	Computing prime factors with a Josephson phase qubit quantum processor. Nature Physics, 2012, 8, 719-723.	6.5	238
9	Quantum process tomography of a universal entangling gate implemented with Josephson phase qubits. Nature Physics, 2010, 6, 409-413.	6.5	186
10	Realizing topologically ordered states on a quantum processor. Science, 2021, 374, 1237-1241.	6.0	186
11	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. Applied Physics Letters, 2011, 99, .	1.5	184
12	Observation of topological transitions in interacting quantum circuits. Nature, 2014, 515, 241-244.	13.7	162
13	Optimal Quantum Control Using Randomized Benchmarking. Physical Review Letters, 2014, 112, 240504.	2.9	160
14	Demonstrating a Continuous Set of Two-qubit Gates for Near-term Quantum Algorithms. Physical Review Letters, 2020, 125, 120504.	2.9	146
15	Improving the coherence time of superconducting coplanar resonators. Applied Physics Letters, 2009, 95, .	1.5	145
16	Time-crystalline eigenstate order on a quantum processor. Nature, 2022, 601, 531-536.	13.7	138
17	Surface loss simulations of superconducting coplanar waveguide resonators. Applied Physics Letters, 2011, 99, .	1.5	130
18	Information scrambling in quantum circuits. Science, 2021, 374, 1479-1483.	6.0	127

#	ARTICLE	IF	CITATIONS
19	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , 2011, 7, 287-293.	6.5	114
20	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.	3.5	100
21	Quantum process tomography of two-qubit controlled-Z and controlled-NOT gates using superconducting phase qubits. <i>Physical Review B</i> , 2010, 82, .	1.1	93
22	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , 2014, 112, .	2.9	92
23	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	89
24	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	85
25	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , 2011, 84, .	1.1	81
26	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, .	1.5	73
27	Diabatic Gates for Frequency-Tunable Superconducting Qubits. <i>Physical Review Letters</i> , 2019, 123, 210501.	2.9	73
28	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	67
29	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , 2015, 3, .	1.5	66
30	Flux Noise Probed with Real Time Qubit Tomography in a Josephson Phase Qubit. <i>Physical Review Letters</i> , 2012, 109, 067001.	2.9	49
31	Excitation of Superconducting Qubits from Hot Nonequilibrium Quasiparticles. <i>Physical Review Letters</i> , 2013, 110, 150502.	2.9	48
32	Compressed sensing quantum process tomography for superconducting quantum gates. <i>Physical Review B</i> , 2014, 90, .	1.1	45
33	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	44
34	Preserving entanglement during weak measurement demonstrated with a violation of the Bell–Leggett–Garg inequality. <i>Npj Quantum Information</i> , 2016, 2, .	2.8	41
35	Quantum Computing: An Introduction for Microwave Engineers. <i>IEEE Microwave Magazine</i> , 2020, 21, 24-44.	0.7	35
36	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014, 5, 5184.	5.8	30

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37	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , 2014, 90, .	1.0	27
38	High fidelity qubit readout with the superconducting low-inductance undulatory galvanometer microwave amplifier. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	19
39	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , 2012, 85, .	1.0	13
40	High speed flux sampling for tunable superconducting qubits with an embedded cryogenic transducer. <i>Superconductor Science and Technology</i> , 2019, 32, 015012.	1.8	13