

James Wenner

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.

64
papers

10,199
citations

48
h-index

64
g-index

64
ext. papers

12,063
ext. citations

13.2
avg, IF

5.16
L-index

#	Paper	IF	Citations
64	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
63	Qubit compatible superconducting interconnects. <i>Quantum Science and Technology</i> , 2018 , 3, 014005	5.5	49
62	A blueprint for demonstrating quantum supremacy with superconducting qubits. <i>Science</i> , 2018 , 360, 195-199	33.3	205
61	A method for building low loss multi-layer wiring for superconducting microwave devices. <i>Applied Physics Letters</i> , 2018 , 112, 063502	3.4	27
60	Fluctuations of Energy-Relaxation Times in Superconducting Qubits. <i>Physical Review Letters</i> , 2018 , 121, 090502	7.4	95
59	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
58	Spectroscopic signatures of localization with interacting photons in superconducting qubits. <i>Science</i> , 2017 , 358, 1175-1179	33.3	184
57	Chiral ground-state currents of interacting photons in a synthetic magnetic field. <i>Nature Physics</i> , 2017 , 13, 146-151	16.2	189
56	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
55	Dielectric surface loss in superconducting resonators with flux-trapping holes. <i>Superconductor Science and Technology</i> , 2016 , 29, 104006	3.1	14
54	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , 2016 , 116, 020501	7.4	93
53	Scalable Quantum Simulation of Molecular Energies. <i>Physical Review X</i> , 2016 , 6,	9.1	355
52	Scalable in situ qubit calibration during repetitive error detection. <i>Physical Review A</i> , 2016 , 94,	2.6	21
51	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-CHSH inequality. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	30
50	Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation. <i>Physical Review Letters</i> , 2016 , 117, 190503	7.4	59
49	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , 2016 , 534, 222-6	50.4	239
48	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , 2016 , 12, 1037-1041	16.2	154

47	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , 2015 , 519, 66-9	50.4	542
46	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , 2015 , 6, 7654	17.4	191
45	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , 2015 , 3,	4.3	39
44	Traveling wave parametric amplifier with Josephson junctions using minimal resonator phase matching. <i>Applied Physics Letters</i> , 2015 , 106, 242601	3.4	84
43	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , 2014 , 508, 500-3	50.4	961
42	Room temperature deposition of sputtered TiN films for superconducting coplanar waveguide resonators. <i>Superconductor Science and Technology</i> , 2014 , 27, 015009	3.1	51
41	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , 2014 , 515, 241-4	50.4	120
40	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014 , 5, 5184	17.4	27
39	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , 2014 , 112, 190504	7.4	200
38	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , 2014 , 112, 240504	7.4	118
37	Strong environmental coupling in a Josephson parametric amplifier. <i>Applied Physics Letters</i> , 2014 , 104, 263513	3.4	93
36	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , 2014 , 90,	2.6	20
35	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , 2014 , 112,	7.4	70
34	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , 2014 , 113, 220502	7.4	279
33	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014 , 105, 062601	3.4	68
32	Compressed sensing quantum process tomography for superconducting quantum gates. <i>Physical Review B</i> , 2014 , 90,	3.3	29
31	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014 , 104, 052602	3.4	60
30	Coherent Josephson qubit suitable for scalable quantum integrated circuits. <i>Physical Review Letters</i> , 2013 , 111, 080502	7.4	401

29	Catch and release of microwave photon states. <i>Physical Review Letters</i> , 2013 , 110, 107001	7.4	125
28	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
27	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , 2013 , 103, 072603	3.4	34
26	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , 2013 , 110, 150502	7.4	37
25	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012 , 100, 113510	3.4	264
24	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , 2012 , 8, 719-723	7.2	194
23	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012 , 101, 182601	3.1	53
22	Flux noise probed with real time qubit tomography in a Josephson phase qubit. <i>Physical Review Letters</i> , 2012 , 109, 067001	7.4	44
21	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , 2012 , 85,	2.6	10
20	Deterministic entanglement of photons in two superconducting microwave resonators. <i>Physical Review Letters</i> , 2011 , 106, 060401	7.4	145
19	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , 2011 , 7, 287-293	6.2	103
18	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011 , 99, 113513	3.4	95
17	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	67
16	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2011 , 99, 113507	3.4	147
15	Fast tunable coupler for superconducting qubits. <i>Physical Review Letters</i> , 2011 , 106, 060501	7.4	84
14	Implementing the quantum von Neumann architecture with superconducting circuits. <i>Science</i> , 2011 , 334, 61-5	3.3	214
13	Wirebond crosstalk and cavity modes in large chip mounts for superconducting qubits. <i>Superconductor Science and Technology</i> , 2011 , 24, 065001	3.1	34
12	Phase qubits fabricated with trilayer junctions. <i>Superconductor Science and Technology</i> , 2011 , 24, 055005	3.1	15

11	Quantum ground state and single-phonon control of a mechanical resonator. <i>Nature</i> , 2010 , 464, 697-703	50.4	1368
10	Generation of three-qubit entangled states using superconducting phase qubits. <i>Nature</i> , 2010 , 467, 570-3	50.4	293
9	Quantum process tomography of a universal entangling gate implemented with Josephson phase qubits. <i>Nature Physics</i> , 2010 , 6, 409-413	16.2	137
8	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
7	Reduced phase error through optimized control of a superconducting qubit. <i>Physical Review A</i> , 2010 , 82,	2.6	49
6	Decoherence dynamics of complex photon states in a superconducting circuit. <i>Physical Review Letters</i> , 2009 , 103, 200404	7.4	39
5	Improving the coherence time of superconducting coplanar resonators. <i>Applied Physics Letters</i> , 2009 , 95, 233508	3.4	121
4	Synthesizing arbitrary quantum states in a superconducting resonator. <i>Nature</i> , 2009 , 459, 546-9	50.4	617
3	Violation of Bell's inequality in Josephson phase qubits. <i>Nature</i> , 2009 , 461, 504-6	50.4	290
2	Emulation of a quantum spin with a superconducting phase qubit. <i>Science</i> , 2009 , 325, 722-5	33.3	190
1	Measurement of the decay of Fock states in a superconducting quantum circuit. <i>Physical Review Letters</i> , 2008 , 101, 240401	7.4	112