

Amit Vainsencher

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.

32
papers

6,640
citations

28
h-index

32
g-index

32
ext. papers

8,888
ext. citations

14.8
avg, IF

4.82
L-index

#	Paper	IF	Citations
32	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
31	Diabatic Gates for Frequency-Tunable Superconducting Qubits. <i>Physical Review Letters</i> , 2019 , 123, 210501	7.4	38
30	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , 2019 , 574, 505-510	50.4	1760
29	Qubit compatible superconducting interconnects. <i>Quantum Science and Technology</i> , 2018 , 3, 014005	5.5	49
28	A blueprint for demonstrating quantum supremacy with superconducting qubits. <i>Science</i> , 2018 , 360, 195-199	33.3	205
27	A method for building low loss multi-layer wiring for superconducting microwave devices. <i>Applied Physics Letters</i> , 2018 , 112, 063502	3.4	27
26	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
25	Chiral ground-state currents of interacting photons in a synthetic magnetic field. <i>Nature Physics</i> , 2017 , 13, 146-151	16.2	189
24	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , 2016 , 116, 020501	7.4	93
23	Scalable in situ qubit calibration during repetitive error detection. <i>Physical Review A</i> , 2016 , 94,	2.6	21
22	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-CHSH inequality. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	30
21	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , 2016 , 534, 222-6	50.4	239
20	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , 2016 , 12, 1037-1041	16.2	154
19	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , 2015 , 519, 66-9	50.4	542
18	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , 2015 , 6, 7654	17.4	191
17	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , 2015 , 3,	4.3	39
16	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , 2014 , 508, 500-3	50.4	961

15	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , 2014 , 515, 241-4	50.4	120
14	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014 , 5, 5184	17.4	27
13	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , 2014 , 112, 190504	7.4	200
12	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , 2014 , 112, 240504	7.4	118
11	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , 2014 , 112,	7.4	70
10	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , 2014 , 113, 220502	7.4	279
9	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014 , 105, 062601	3.4	68
8	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014 , 104, 052602	3.4	60
7	Nanomechanical coupling between microwave and optical photons. <i>Nature Physics</i> , 2013 , 9, 712-716	16.2	394
6	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
5	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , 2013 , 110, 150502	7.4	37
4	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012 , 100, 113510	3.4	264
3	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , 2012 , 8, 719-723	16.2	194
2	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012 , 101, 182601	3.4	53
1	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011 , 99, 113513	3.4	95