

## 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.

43  
papers

2,295  
citations

21  
h-index

47  
g-index

48  
ext. papers

2,721  
ext. citations

6.5  
avg, IF

4.03  
L-index

#	Paper	IF	Citations
43	Coherent Josephson qubit suitable for scalable quantum integrated circuits. <i>Physical Review Letters</i> , <b>2013</b> , 111, 080502	7.4	401
42	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 113510	3.4	264
41	Scanning tunneling spectroscopy and vortex imaging in the iron pnictide superconductor BaFe <sub>1.8</sub> Co <sub>0.2</sub> As <sub>2</sub> . <i>Physical Review Letters</i> , <b>2009</b> , 102, 097002	7.4	221
40	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , <b>2012</b> , 8, 719-723	16.2	194
39	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113507	3.4	147
38	Catch and release of microwave photon states. <i>Physical Review Letters</i> , <b>2013</b> , 110, 107001	7.4	125
37	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , <b>2011</b> , 7, 287-293	16.2	103
36	Fermi surface and pseudogap evolution in a cuprate superconductor. <i>Science</i> , <b>2014</b> , 344, 608-11	33.3	101
35	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113513	3.4	95
34	Quantum process tomography of two-qubit controlled-Z and controlled-NOT gates using superconducting phase qubits. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	76
33	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	70
32	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	67
31	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 182601	6.0	53
30	The experimental realization of high-fidelity shortcut-to-adiabaticity quantum gates in a superconducting Xmon qubit. <i>New Journal of Physics</i> , <b>2018</b> , 20, 065003	2.9	38
29	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , <b>2013</b> , 110, 150502	7.4	37
28	Scanning tunnelling microscopy imaging of symmetry-breaking structural distortion in the bismuth-based cuprate superconductors. <i>Nature Materials</i> , <b>2012</b> , 11, 585-9	27	34
27	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 072601	3.4	34

26	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	31
25	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , <b>2014</b> , 5, 5184	17.4	27
24	Experimental Realization of a Fast Controlled-Z Gate via a Shortcut to Adiabaticity. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	22
23	Measuring the Berry phase in a superconducting phase qubit by a shortcut to adiabaticity. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	22
22	Experimental demonstration of work fluctuations along a shortcut to adiabaticity with a superconducting Xmon qubit. <i>New Journal of Physics</i> , <b>2018</b> , 20, 085001	2.9	19
21	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe. <i>Physical Review Letters</i> , <b>2020</b> , 124, 236601	7.4	14
20	Simulating a topological transition in a superconducting phase qubit by fast adiabatic trajectories. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2018</b> , 61, 1	3.6	14
19	Single-shot realization of nonadiabatic holonomic gates with a superconducting Xmon qubit. <i>New Journal of Physics</i> , <b>2019</b> , 21, 073024	2.9	13
18	The study of electronic nematicity in an overdoped (Bi, Pb)SrCuO superconductor using scanning tunneling spectroscopy. <i>Scientific Reports</i> , <b>2017</b> , 7, 8059	4.9	10
17	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	10
16	Possible strain induced Mott gap collapse in 1T-TaS <sub>2</sub> . <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	10
15	Experimental realization of nonadiabatic geometric gates with a superconducting Xmon qubit. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2021</b> , 64, 1	3.6	7
14	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	6
13	Non-collinear magnetic structure of manganese quadruple perovskite CdMnO. <i>Scientific Reports</i> , <b>2017</b> , 7, 45939	4.9	4
12	Density Wave Probes Cuprate Quantum Phase Transition. <i>Physical Review X</i> , <b>2019</b> , 9,	9.1	4
11	Enhanced anisotropic superconductivity in the topological nodal-line semimetal InxTaS <sub>2</sub> . <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	4
10	Chiral charge density waves induced by Ti-doping in 1T-TaS <sub>2</sub> . <i>Applied Physics Letters</i> , <b>2021</b> , 118, 213105	3.4	4
9	Electronic effect of doped oxygen atoms in Bi2201 superconductors determined by scanning tunneling microscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2018</b> , 61, 1	3.6	3

- 8 Reconciling the bulk metallic and surface insulating state in  $1T\bar{T}aSe_2$ . *Physical Review B*, **2022**, 105, 3.3 2
- 7 Effect of stacking order on the electronic state of  $1T\bar{T}aS_2$ . *Physical Review B*, **2022**, 105, 3.3 2
- 6 Simultaneous Feedback and Feedforward Control and Its Application to Realize a Random Walk on the Bloch Sphere in an Xmon-Superconducting-Qubit System. *Physical Review Applied*, **2020**, 14, 4.3 2
- 5 Study of intrinsic defect states of FeSe with scanning tunneling microscopy. *Physical Review B*, **2019**, 100, 3.3 1
- 4 Visualizing the charge order and topological defects in an overdoped  $(Bi,Pb)_2Sr_2CuO_{6+x}$  superconductor. *Science China: Physics, Mechanics and Astronomy*, **2020**, 63, 1 3.6 1
- 3 Optimization of a Controlled-Z Gate with Data-Driven Gradient-Ascent Pulse Engineering in a Superconducting-Qubit System. *Physical Review Applied*, **2021**, 15, 4.3 1
- 2 Observation of an electronic order along  $[110]$  direction in FeSe. *Nature Communications*, **2021**, 12, 138517.4 1
- 1 Modulation of electronic state in copper-intercalated  $1T-TaS_2$ . *Nano Research*, 1 10 0