

Yi Yin

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.

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	Reconciling the bulk metallic and surface insulating state in 1T-TaSe ₂ . <i>Physical Review B</i> , 2022 , 105,	3.3	2
42	Effect of stacking order on the electronic state of 1T-TaS ₂ . <i>Physical Review B</i> , 2022 , 105,	3.3	2
41	Chiral charge density waves induced by Ti-doping in 1T-TaS ₂ . <i>Applied Physics Letters</i> , 2021 , 118, 213105	3.4	4
40	Optimization of a Controlled-Z Gate with Data-Driven Gradient-Ascent Pulse Engineering in a Superconducting-Qubit System. <i>Physical Review Applied</i> , 2021 , 15,	4.3	1
39	Experimental realization of nonadiabatic geometric gates with a superconducting Xmon qubit. <i>Science China: Physics, Mechanics and Astronomy</i> , 2021 , 64, 1	3.6	7
38	Observation of an electronic order along [110] direction in FeSe. <i>Nature Communications</i> , 2021 , 12, 13851	7.4	1
37	Temperature-Induced Lifshitz Transition and Possible Excitonic Instability in ZrSiSe. <i>Physical Review Letters</i> , 2020 , 124, 236601	7.4	14
36	Visualizing the charge order and topological defects in an overdoped (Bi,Pb) ₂ Sr ₂ CuO _{6+x} superconductor. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1	3.6	1
35	Simultaneous Feedback and Feedforward Control and Its Application to Realize a Random Walk on the Bloch Sphere in an Xmon-Superconducting-Qubit System. <i>Physical Review Applied</i> , 2020 , 14,	4.3	2
34	Enhanced anisotropic superconductivity in the topological nodal-line semimetal InxTaS ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	4
33	Single-shot realization of nonadiabatic holonomic gates with a superconducting Xmon qubit. <i>New Journal of Physics</i> , 2019 , 21, 073024	2.9	13
32	Density Wave Probes Cuprate Quantum Phase Transition. <i>Physical Review X</i> , 2019 , 9,	9.1	4
31	Experimental Realization of a Fast Controlled-Z Gate via a Shortcut to Adiabaticity. <i>Physical Review Applied</i> , 2019 , 11,	4.3	22
30	Study of intrinsic defect states of FeSe with scanning tunneling microscopy. <i>Physical Review B</i> , 2019 , 100,	3.3	1
29	Possible strain induced Mott gap collapse in 1T-TaS ₂ . <i>Communications Physics</i> , 2019 , 2,	5.4	10
28	Simulating a topological transition in a superconducting phase qubit by fast adiabatic trajectories. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	14
27	The experimental realization of high-fidelity "shortcut-to-adiabaticity" quantum gates in a superconducting Xmon qubit. <i>New Journal of Physics</i> , 2018 , 20, 065003	2.9	38

26	Experimental demonstration of work fluctuations along a shortcut to adiabaticity with a superconducting Xmon qubit. <i>New Journal of Physics</i> , 2018 , 20, 085001	2.9	19
25	Electronic effect of doped oxygen atoms in Bi2201 superconductors determined by scanning tunneling microscopy. <i>Science China: Physics, Mechanics and Astronomy</i> , 2018 , 61, 1	3.6	3
24	Visualization of electronic topology in ZrSiSe by scanning tunneling microscopy. <i>Physical Review B</i> , 2018 , 98,	3.3	6
23	Non-collinear magnetic structure of manganese quadruple perovskite CdMnO. <i>Scientific Reports</i> , 2017 , 7, 45939	4.9	4
22	The study of electronic nematicity in an overdoped (Bi, Pb)SrCuO superconductor using scanning tunneling spectroscopy. <i>Scientific Reports</i> , 2017 , 7, 8059	4.9	10
21	Measuring the Berry phase in a superconducting phase qubit by a shortcut to adiabaticity. <i>Physical Review A</i> , 2017 , 95,	2.6	22
20	Fermi surface and pseudogap evolution in a cuprate superconductor. <i>Science</i> , 2014 , 344, 608-11	33.3	101
19	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014 , 5, 5184	17.4	27
18	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , 2014 , 112,	7.4	70
17	Coherent Josephson qubit suitable for scalable quantum integrated circuits. <i>Physical Review Letters</i> , 2013 , 111, 080502	7.4	401
16	Dopant clustering, electronic inhomogeneity, and vortex pinning in iron-based superconductors. <i>Physical Review B</i> , 2013 , 87,	3.3	31
15	Catch and release of microwave photon states. <i>Physical Review Letters</i> , 2013 , 110, 107001	7.4	125
14	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , 2013 , 103, 072603	3.4	34
13	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , 2013 , 110, 150502	7.4	37
12	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012 , 100, 113510	3.4	264
11	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , 2012 , 8, 719-723	17.3	194
10	Scanning tunnelling microscopy imaging of symmetry-breaking structural distortion in the bismuth-based cuprate superconductors. <i>Nature Materials</i> , 2012 , 11, 585-9	27	34
9	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012 , 101, 182601	6.1	53

8	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , 2012 , 85,	2.6	10
7	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , 2011 , 7, 287-293	16.2	103
6	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011 , 99, 113513	3.4	95
5	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , 2011 , 84,	3.3	67
4	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2011 , 99, 113507	3.4	147
3	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
2	Scanning tunneling spectroscopy and vortex imaging in the iron pnictide superconductor BaFe _{1.8} Co _{0.2} As ₂ . <i>Physical Review Letters</i> , 2009 , 102, 097002	7.4	221
1	Modulation of electronic state in copper-intercalated 1T-TaS ₂ . <i>Nano Research</i> , 1	10	0