## Haohua Wang

## List of Publications by Citations

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83 7,382 85 39 h-index g-index citations papers 88 8,937 5.32 11.4 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
83	Quantum ground state and single-phonon control of a mechanical resonator. <i>Nature</i> , <b>2010</b> , 464, 697-70	0350.4	1368
82	Synthesizing arbitrary quantum states in a superconducting resonator. <i>Nature</i> , <b>2009</b> , 459, 546-9	50.4	617
81	Generation of Fock states in a superconducting quantum circuit. <i>Nature</i> , <b>2008</b> , 454, 310-4	50.4	388
80	Optomechanical dark mode. Science, 2012, 338, 1609-13	33.3	300
79	Generation of three-qubit entangled states using superconducting phase qubits. <i>Nature</i> , <b>2010</b> , 467, 57	<b>0-3</b> 0.4	293
78	Violation of Bell's inequality in Josephson phase qubits. <i>Nature</i> , <b>2009</b> , 461, 504-6	50.4	290
77	Implementing the quantum von Neumann architecture with superconducting circuits. <i>Science</i> , <b>2011</b> , 334, 61-5	33.3	214
76	10-Qubit Entanglement and Parallel Logic Operations with a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2017</b> , 119, 180511	7.4	212
75	Process tomography of quantum memory in a Josephson-phase qubit coupled to a two-level state. <i>Nature Physics</i> , <b>2008</b> , 4, 523-526	16.2	192
74	Emulation of a quantum spin with a superconducting phase qudit. <i>Science</i> , <b>2009</b> , 325, 722-5	33.3	190
73	Reversal of the weak measurement of a quantum state in a superconducting phase qubit. <i>Physical Review Letters</i> , <b>2008</b> , 101, 200401	7.4	189
72	Microwave dielectric loss at single photon energies and millikelvin temperatures. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 112903	3.4	183
71	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113507	3.4	147
70	Deterministic entanglement of photons in two superconducting microwave resonators. <i>Physical Review Letters</i> , <b>2011</b> , 106, 060401	7.4	145
69	Quantum process tomography of a universal entangling gate implemented with Josephson phase qubits. <i>Nature Physics</i> , <b>2010</b> , 6, 409-413	16.2	137
68	1/f Flux noise in Josephson phase qubits. <i>Physical Review Letters</i> , <b>2007</b> , 99, 187006	7.4	137
67	Improving the coherence time of superconducting coplanar resonators. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 233508	3.4	121

66	Generation of multicomponent atomic Schrdinger cat states of up to 20 qubits. Science, 2019, 365, 574	<b>-53737</b> 3	115
65	Measurement of the decay of Fock states in a superconducting quantum circuit. <i>Physical Review Letters</i> , <b>2008</b> , 101, 240401	7.4	112
64	Emulating Many-Body Localization with a Superconducting Quantum Processor. <i>Physical Review Letters</i> , <b>2018</b> , 120, 050507	7.4	106
63	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , <b>2011</b> , 7, 287-29	316.2	103
62	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113513	3.4	95
61	High-fidelity gates in a single josephson qubit. <i>Physical Review Letters</i> , <b>2008</b> , 100, 247001	7.4	90
60	Fast tunable coupler for superconducting qubits. <i>Physical Review Letters</i> , <b>2011</b> , 106, 060501	7.4	84
59	Destruction of the global phase coherence in ultrathin, doubly connected superconducting cylinders. <i>Science</i> , <b>2001</b> , 294, 2332-4	33.3	79
58	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
57	Single-Loop Realization of Arbitrary Nonadiabatic Holonomic Single-Qubit Quantum Gates in a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2018</b> , 121, 110501	7.4	76
56	Genuine 12-Qubit Entanglement on a Superconducting Quantum Processor. <i>Physical Review Letters</i> , <b>2019</b> , 122, 110501	7.4	72
55	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	67
54	Perfect Quantum State Transfer in a Superconducting Qubit Chain with Parametrically Tunable Couplings. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	59
53	Lithography-free fabrication of graphene devices. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 143518	3.4	50
52	Reduced phase error through optimized control of a superconducting qubit. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	49
51	Solving Systems of Linear Equations with a Superconducting Quantum Processor. <i>Physical Review Letters</i> , <b>2017</b> , 118, 210504	7.4	47
50	Quantum state characterization of a fast tunable superconducting resonator. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 163503	3.4	47
49	Coherent population transfer between uncoupled or weakly coupled states in ladder-type superconducting qutrits. <i>Nature Communications</i> , <b>2016</b> , 7, 11018	17.4	46

48	A quantum enhanced search for dark matter axions. <i>Nature</i> , <b>2021</b> , 590, 238-242	50.4	46
47	Flux noise probed with real time qubit tomography in a Josephson phase qubit. <i>Physical Review Letters</i> , <b>2012</b> , 109, 067001	7.4	44
46	Experimental Implementation of Universal Nonadiabatic Geometric Quantum Gates in a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2020</b> , 124, 230503	7.4	42
45	Observation of Topological Magnon Insulator States in a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2019</b> , 123, 080501	7.4	40
44	Decoherence dynamics of complex photon states in a superconducting circuit. <i>Physical Review Letters</i> , <b>2009</b> , 103, 200404	7.4	39
43	Emulating Anyonic Fractional Statistical Behavior in a Superconducting Quantum Circuit. <i>Physical Review Letters</i> , <b>2016</b> , 117, 110501	7.4	38
42	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , <b>2013</b> , 110, 150502	7.4	37
41	Transformed dissipation in superconducting quantum circuits. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	37
40	Continuous-variable geometric phase and its manipulation for quantum computation in a superconducting circuit. <i>Nature Communications</i> , <b>2017</b> , 8, 1061	17.4	34
39	Quantum computation with universal error mitigation on a superconducting quantum processor. <i>Science Advances</i> , <b>2019</b> , 5, eaaw5686	14.3	34
38	Wirebond crosstalk and cavity modes in large chip mounts for superconducting qubits. Superconductor Science and Technology, <b>2011</b> , 24, 065001	3.1	34
37	Synthesis of antisymmetric spin exchange interaction and chiral spin clusters in superconducting circuits. <i>Nature Physics</i> , <b>2019</b> , 15, 382-386	16.2	30
36	Probing dynamical phase transitions with a superconducting quantum simulator. <i>Science Advances</i> , <b>2020</b> , 6, eaba4935	14.3	28
35	Exploring the quantum critical behaviour in a driven Tavis-Cummings circuit. <i>Nature Communications</i> , <b>2015</b> , 6, 7111	17.4	27
34	Josephson phase qubit circuit for the evaluation of advanced tunnel barrier materials. <i>Superconductor Science and Technology</i> , <b>2009</b> , 22, 015004	3.1	26
33	Possible observation of phase separation near a quantum phase transition in doubly connected ultrathin superconducting cylinders of aluminum. <i>Physical Review Letters</i> , <b>2005</b> , 95, 197003	7.4	26
32	Controllable Switching between Superradiant and Subradiant States in a 10-qubit Superconducting Circuit. <i>Physical Review Letters</i> , <b>2020</b> , 124, 013601	7.4	25
31	Demonstration of Topological Robustness of Anyonic Braiding Statistics with a Superconducting Quantum Circuit. <i>Physical Review Letters</i> , <b>2018</b> , 121, 030502	7.4	24

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30	Tunable Coupler for Realizing a Controlled-Phase Gate with Dynamically Decoupled Regime in a Superconducting Circuit. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	24	
29	Quantum Delayed-Choice Experiment with a Beam Splitter in a Quantum Superposition. <i>Physical Review Letters</i> , <b>2015</b> , 115, 260403	7.4	23	
28	Demonstration of Controlled-Phase Gates between Two Error-Correctable Photonic Qubits. <i>Physical Review Letters</i> , <b>2020</b> , 124, 120501	7.4	22	
27	Suppression of Dephasing by Qubit Motion in Superconducting Circuits. <i>Physical Review Letters</i> , <b>2016</b> , 116, 010501	7.4	20	
26	Observation of energy-resolved many-body localization. <i>Nature Physics</i> , <b>2021</b> , 17, 234-239	16.2	20	
25	Reducing the impact of intrinsic dissipation in a superconducting circuit by quantum error detection. <i>Nature Communications</i> , <b>2014</b> , 5, 3135	17.4	19	
24	Materials loss measurements using superconducting microwave resonators. <i>Review of Scientific Instruments</i> , <b>2020</b> , 91, 091101	1.7	17	
23	Dephasing-Insensitive Quantum Information Storage and Processing with Superconducting Qubits. <i>Physical Review Letters</i> , <b>2018</b> , 121, 130501	7.4	17	
22	Phase qubits fabricated with trilayer junctions. Superconductor Science and Technology, 2011, 24, 05500	)53.1	15	
21	Heisenberg-limited single-mode quantum metrology in a superconducting circuit. <i>Nature Communications</i> , <b>2019</b> , 10, 4382	17.4	14	
20	Mode Structure in Superconducting Metamaterial Transmission-Line Resonators. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	11	
19	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	10	
18	Metallic contacts with individual Ru nanowires prepared by electrochemical deposition and the suppression of superconductivity in ultrasmall Ru grains. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5171-5173	3.4	9	
17	Simultaneous Excitation of Two Noninteracting Atoms with Time-Frequency Correlated Photon Pairs in a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2020</b> , 125, 133601	7.4	8	
16	Synthesizing three-body interaction of spin chirality with superconducting qubits. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 114001	3.4	7	
15	Manipulating Complex Hybrid Entanglement and Testing Multipartite Bell Inequalities in a Superconducting Circuit. <i>Physical Review Letters</i> , <b>2020</b> , 125, 180503	7.4	7	
14	Joint quantum state tomography of an entangled qubitilesonator hybrid. <i>New Journal of Physics</i> , <b>2013</b> , 15, 125027	2.9	6	
13	Stark Many-Body Localization on a Superconducting Quantum Processor <i>Physical Review Letters</i> , <b>2021</b> , 127, 240502	7.4	5	

12	Observation of double resistance anomalies and excessive resistance in mesoscopic superconducting Au0.7In0.3 rings with phase separation. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	4
11	Quantum generative adversarial networks with multiple superconducting qubits. <i>Npj Quantum Information</i> , <b>2021</b> , 7,	8.6	3
10	Coupling a Superconducting Qubit to a Left-Handed Metamaterial Resonator. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	3
9	Ultrathin, doubly connected superconducting cylinders: A link between one- and two-dimensional superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>2008</b> , 468, 331-336	1.3	2
8	Superconducting fluctuations in the destructive regime of ultrathin, superconducting cylinders. <i>Physica B: Condensed Matter</i> , <b>2003</b> , 329-333, 1415-1416	2.8	2
7	High-Efficiency Arbitrary Quantum Operation on a High-Dimensional Quantum System. <i>Physical Review Letters</i> , <b>2021</b> , 127, 090504	7.4	2
6	Wang et al. Reply:. <i>Physical Review Letters</i> , <b>2008</b> , 101,	7.4	1
6 5	Wang et al. Reply:. <i>Physical Review Letters</i> , <b>2008</b> , 101,  Observation of a Possible Metallic State Induced by a Parallel Magnetic Field in Superconducting Au0.7In0.3 Samples With Very Low Normal-state Sheet Resistance. <i>Journal of Low Temperature Physics</i> , <b>2007</b> , 147, 623-631	7.4	1
	Observation of a Possible Metallic State Induced by a Parallel Magnetic Field in Superconducting Au0.7In0.3 Samples With Very Low Normal-state Sheet Resistance. <i>Journal of Low Temperature</i>		
5	Observation of a Possible Metallic State Induced by a Parallel Magnetic Field in Superconducting Au0.7In0.3 Samples With Very Low Normal-state Sheet Resistance. <i>Journal of Low Temperature Physics</i> , <b>2007</b> , 147, 623-631  Observation of geometric phase in a dispersively coupled resonator-qutrit system. <i>Chinese Physics</i>	1.3	1
5	Observation of a Possible Metallic State Induced by a Parallel Magnetic Field in Superconducting Au0.7In0.3 Samples With Very Low Normal-state Sheet Resistance. <i>Journal of Low Temperature Physics</i> , <b>2007</b> , 147, 623-631  Observation of geometric phase in a dispersively coupled resonator-qutrit system. <i>Chinese Physics B</i> , <b>2018</b> , 27, 070303  Metrological Characterization of Non-Gaussian Entangled States of Superconducting Qubits	1.3	1