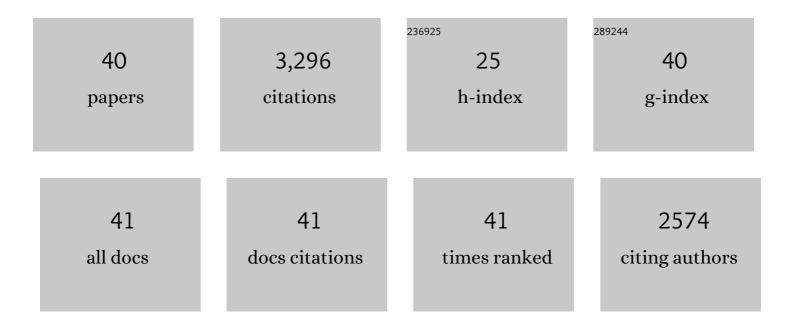
## Xiaobo Zhu

List of Publications by Year in descending order

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Χιλοβο Ζητι

#	Article	IF	CITATIONS
1	Strong Quantum Computational Advantage Using a Superconducting Quantum Processor. Physical Review Letters, 2021, 127, 180501.	7.8	491
2	Coherent coupling of a superconducting flux qubit to an electron spin ensemble in diamond. Nature, 2011, 478, 221-224.	27.8	387
3	10-Qubit Entanglement and Parallel Logic Operations with a Superconducting Circuit. Physical Review Letters, 2017, 119, 180511.	7.8	313
4	Quantum walks on a programmable two-dimensional 62-qubit superconducting processor. Science, 2021, 372, 948-952.	12.6	202
5	Emulating Many-Body Localization with a Superconducting Quantum Processor. Physical Review Letters, 2018, 120, 050507.	7.8	189
6	Strongly correlated quantum walks with a 12-qubit superconducting processor. Science, 2019, 364, 753-756.	12.6	169
7	Superconducting quantum computing: a review. Science China Information Sciences, 2020, 63, 1.	4.3	152
8	Genuine 12-Qubit Entanglement on a Superconducting Quantum Processor. Physical Review Letters, 2019, 122, 110501.	7.8	136
9	Quantum computational advantage via 60-qubit 24-cycle random circuit sampling. Science Bulletin, 2022, 67, 240-245.	9.0	114
10	Towards Realizing a Quantum Memory for a Superconducting Qubit: Storage and Retrieval of Quantum States. Physical Review Letters, 2013, 111, 107008.	7.8	97
11	Realization of an Error-Correcting Surface Code with Superconducting Qubits. Physical Review Letters, 2022, 129, .	7.8	94
12	Propagation and Localization of Collective Excitations on a 24-Qubit Superconducting Processor. Physical Review Letters, 2019, 123, 050502.	7.8	87
13	Experimental Quantum Generative Adversarial Networks for Image Generation. Physical Review Applied, 2021, 16, .	3.8	87
14	Solving Systems of Linear Equations with a Superconducting Quantum Processor. Physical Review Letters, 2017, 118, 210504.	7.8	76
15	Continuous-variable geometric phase and its manipulation for quantum computation in a superconducting circuit. Nature Communications, 2017, 8, 1061.	12.8	64
16	Coherent operation of a gap-tunable flux qubit. Applied Physics Letters, 2010, 97, .	3.3	62
17	Synthesis of antisymmetric spin exchange interaction and chiral spin clusters in superconducting circuits. Nature Physics, 2019, 15, 382-386.	16.7	58
18	Preparation of interlayer surface tailored protonated double-layered perovskite H <sub>2</sub> CaTa <sub>2</sub> O <sub>7</sub> with n-alcohols, and their photocatalytic activity. RSC Advances, 2014, 4, 4047-4054.	3.6	40

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#	Article	IF	CITATIONS
19	Demonstration of Topological Robustness of Anyonic Braiding Statistics with a Superconducting Quantum Circuit. Physical Review Letters, 2018, 121, 030502.	7.8	40
20	An efficient and compact switch for quantum circuits. Npj Quantum Information, 2018, 4, .	6.7	39
21	Dephasing-Insensitive Quantum Information Storage and Processing with Superconducting Qubits. Physical Review Letters, 2018, 121, 130501.	7.8	33
22	Demonstration of Adiabatic Variational Quantum Computing with a Superconducting Quantum Coprocessor. Physical Review Letters, 2020, 125, 180501.	7.8	33
23	Ruling Out Real-Valued Standard Formalism of Quantum Theory. Physical Review Letters, 2022, 128, 040403.	7.8	31
24	Emulating Quantum Teleportation of a Majorana Zero Mode Qubit. Physical Review Letters, 2021, 126, 090502.	7.8	30
25	Experimental characterization of the quantum many-body localization transition. Physical Review Research, 2021, 3, .	3.6	27
26	Observation of Thermalization and Information Scrambling in a Superconducting Quantum Processor. Physical Review Letters, 2022, 128, 160502.	7.8	26
27	Improving the lifetime of the nitrogen-vacancy-center ensemble coupled with a superconducting flux qubit by applying magnetic fields. Physical Review A, 2015, 91, .	2.5	24
28	Electron paramagnetic resonance spectroscopy using a single artificial atom. Communications Physics, 2019, 2, .	5.3	24
29	Realisation of high-fidelity nonadiabatic CZ gates with superconducting qubits. Npj Quantum Information, 2019, 5, .	6.7	23
30	Experimental exploration of five-qubit quantum error-correcting code with superconducting qubits. National Science Review, 2022, 9, nwab011.	9.5	22
31	Electron paramagnetic resonance spectroscopy using a direct current-SQUID magnetometer directly coupled to an electron spin ensemble. Applied Physics Letters, 2016, 108, 052601.	3.3	21
32	Ergodic-Localized Junctions in a Periodically Driven Spin Chain. Physical Review Letters, 2020, 125, 170503.	7.8	18
33	Observation of Strong and Weak Thermalization in a Superconducting Quantum Processor. Physical Review Letters, 2021, 127, 020602.	7.8	16
34	Engineering entangled microwave photon states through multiphoton interactions between two cavity fields and a superconducting qubit. Scientific Reports, 2016, 6, 23646.	3.3	15
35	Quantum-Teleportation-Inspired Algorithm for Sampling Large Random Quantum Circuits. Physical Review Letters, 2020, 124, 080502.	7.8	14
36	Fabrication and characterization of ultra-low noise narrow and wide band Josephson parametric amplifiers. Chinese Physics B, 2017, 26, 094203.	1.4	13

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#	Article	IF	CITATIONS
37	Realization of High-Fidelity Controlled-Phase Gates in Extensible Superconducting Qubits Design with a Tunable Coupler. Chinese Physics Letters, 2021, 38, 100301.	3.3	13
38	<scp>d</scp> -Glucopyranose-modified compound of Ruddlesden–Popper phases H <sub>2</sub> CaTa <sub>2</sub> O <sub>7</sub> : characterization and intercalation with Ag. Journal of Materials Chemistry A, 2014, 2, 15590.	10.3	11
39	12 superconducting qubits for quantum walks. Frontiers of Physics, 2019, 14, 1.	5.0	3
40	Verification of a resetting protocol for an uncontrolled superconducting qubit. Npj Quantum Information, 2020, 6, .	6.7	2