

Julian Kelly

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.

35
papers

5,854
citations

27
h-index

35
g-index

35
ext. papers

8,184
ext. citations

16.6
avg, IF

4.47
L-index

#	Paper	IF	Citations
35	Resolving catastrophic error bursts from cosmic rays in large arrays of superconducting qubits. <i>Nature Physics</i> , 2022 , 18, 107-111	16.2	7
34	Time-Crystalline Eigenstate Order on a Quantum Processor. <i>Nature</i> , 2021 ,	50.4	8
33	Information scrambling in quantum circuits. <i>Science</i> , 2021 , eabg5029	33.3	13
32	Removing leakage-induced correlated errors in superconducting quantum error correction. <i>Nature Communications</i> , 2021 , 12, 1761	17.4	13
31	Accurately computing the electronic properties of a quantum ring. <i>Nature</i> , 2021 , 594, 508-512	50.4	4
30	Exponential suppression of bit or phase errors with cyclic error correction. <i>Nature</i> , 2021 , 595, 383-387	50.4	28
29	Demonstrating a Continuous Set of Two-Qubit Gates for Near-Term Quantum Algorithms. <i>Physical Review Letters</i> , 2020 , 125, 120504	7.4	59
28	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , 2019 , 574, 505-510	50.4	1760
27	Qubit compatible superconducting interconnects. <i>Quantum Science and Technology</i> , 2018 , 3, 014005	5.5	49
26	Spectroscopic signatures of localization with interacting photons in superconducting qubits. <i>Science</i> , 2017 , 358, 1175-1179	33.3	184
25	Preserving entanglement during weak measurement demonstrated with a violation of the Bell inequality. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	30
24	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , 2015 , 519, 66-9	50.4	542
23	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , 2015 , 6, 7654	17.4	191
22	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , 2015 , 3,	4.3	39
21	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , 2014 , 508, 500-3	50.4	961
20	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , 2014 , 515, 241-4	50.4	120
19	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014 , 5, 5184	17.4	27

18	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , 2014 , 112, 190504	7.4	200
17	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , 2014 , 112, 240504	7.4	118
16	High fidelity qubit readout with the superconducting low-inductance undulatory galvanometer microwave amplifier. <i>Applied Physics Letters</i> , 2014 , 104, 152601	3.4	18
15	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , 2014 , 90,	2.6	20
14	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , 2014 , 112,	7.4	70
13	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , 2014 , 113, 220502	7.4	279
12	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014 , 105, 062601	3.4	68
11	Compressed sensing quantum process tomography for superconducting quantum gates. <i>Physical Review B</i> , 2014 , 90,	3.3	29
10	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014 , 104, 052602	3.4	60
9	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
8	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , 2013 , 103, 072603	3.4	34
7	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , 2013 , 110, 150502	7.4	37
6	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012 , 100, 113510	3.4	264
5	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , 2012 , 8, 719-723	16.3	194
4	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012 , 101, 182601	3.4	53
3	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011 , 99, 113513	3.4	95
2	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2011 , 99, 113507	3.4	147
1	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

