

# Anthony Migrant

## List of Publications by Year in Descending Order

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**Version:** 2024-04-10

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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.

33 papers	5,884 citations	26 h-index	33 g-index
33 ext. papers	8,324 ext. citations	19.7 avg, IF	4.47 L-index

#	Paper	IF	Citations
33	Resolving catastrophic error bursts from cosmic rays in large arrays of superconducting qubits. <i>Nature Physics</i> , <b>2022</b> , 18, 107-111	16.2	7
32	Realizing topologically ordered states on a quantum processor. <i>Science</i> , <b>2021</b> , 374, 1237-1241	33.3	21
31	Time-Crystalline Eigenstate Order on a Quantum Processor. <i>Nature</i> , <b>2021</b> ,	50.4	8
30	Information scrambling in quantum circuits. <i>Science</i> , <b>2021</b> , eabg5029	33.3	13
29	Removing leakage-induced correlated errors in superconducting quantum error correction. <i>Nature Communications</i> , <b>2021</b> , 12, 1761	17.4	13
28	Accurately computing the electronic properties of a quantum ring. <i>Nature</i> , <b>2021</b> , 594, 508-512	50.4	4
27	Exponential suppression of bit or phase errors with cyclic error correction. <i>Nature</i> , <b>2021</b> , 595, 383-387	50.4	28
26	Demonstrating a Continuous Set of Two-Qubit Gates for Near-Term Quantum Algorithms. <i>Physical Review Letters</i> , <b>2020</b> , 125, 120504	7.4	59
25	Quantum supremacy using a programmable superconducting processor. <i>Nature</i> , <b>2019</b> , 574, 505-510	50.4	1760
24	Qubit compatible superconducting interconnects. <i>Quantum Science and Technology</i> , <b>2018</b> , 3, 014005	5.5	49
23	Spectroscopic signatures of localization with interacting photons in superconducting qubits. <i>Science</i> , <b>2017</b> , 358, 1175-1179	33.3	184
22	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , <b>2016</b> , 116, 020501	7.4	93
21	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-inequality. <i>Npj Quantum Information</i> , <b>2016</b> , 2,	8.6	30
20	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , <b>2016</b> , 534, 222-6	50.4	239
19	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , <b>2015</b> , 519, 66-9	50.4	542
18	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , <b>2015</b> , 6, 7654	17.4	191
17	Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. <i>Physical Review Applied</i> , <b>2015</b> , 3,	4.3	39

16	Superconducting quantum circuits at the surface code threshold for fault tolerance. <i>Nature</i> , <b>2014</b> , 508, 500-3	50.4	961
15	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , <b>2014</b> , 515, 241-4	50.4	120
14	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , <b>2014</b> , 5, 5184	17.4	27
13	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , <b>2014</b> , 112, 190504	7.4	200
12	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , <b>2014</b> , 112, 240504	7.4	118
11	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	20
10	Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. <i>Physical Review Letters</i> , <b>2014</b> , 112,	7.4	70
9	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , <b>2014</b> , 113, 220502	7.4	279
8	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 062601	3.4	68
7	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 052602	3.4	60
6	Design and characterization of a lumped element single-ended superconducting microwave parametric amplifier with on-chip flux bias line. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 122602	3.4	57
5	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 072603	3.4	34
4	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , <b>2013</b> , 110, 150502	7.4	37
3	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 113510	3.4	264
2	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , <b>2012</b> , 8, 719-723	16.2	194
1	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113513	3.4	95