

P J J O malley

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.

26

papers

3,139

citations

23

h-index

26

g-index

26

ext. papers

3,744

ext. citations

12

avg, IF

3.98

L-index

#	Paper	IF	Citations
26	Observation of Classical-Quantum Crossover of $1/f$ Flux Noise and Its Paramagnetic Temperature Dependence. <i>Physical Review Letters</i> , 2017 , 118, 057702	7.4	56
25	Chiral ground-state currents of interacting photons in a synthetic magnetic field. <i>Nature Physics</i> , 2017 , 13, 146-151	16.2	189
24	Demonstration of gate control of spin splitting in a high-mobility InAs/AlSb two-dimensional electron gas. <i>Physical Review B</i> , 2016 , 93,	3.3	17
23	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , 2016 , 116, 020501	7.4	93
22	Scalable in situ qubit calibration during repetitive error detection. <i>Physical Review A</i> , 2016 , 94,	2.6	21
21	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-CHSH inequality. <i>Npj Quantum Information</i> , 2016 , 2,	8.6	30
20	Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation. <i>Physical Review Letters</i> , 2016 , 117, 190503	7.4	59
19	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , 2016 , 534, 222-6	50.4	239
18	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , 2016 , 12, 1037-1041	16.2	154
17	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , 2015 , 519, 66-9	50.4	542
16	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , 2015 , 6, 7654	17.4	191
15	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , 2014 , 515, 241-4	50.4	120
14	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014 , 5, 5184	17.4	27
13	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , 2014 , 112, 190504	7.4	200
12	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , 2014 , 112, 240504	7.4	118
11	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , 2014 , 90,	2.6	20
10	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , 2014 , 113, 220502	7.4	279

9	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2014 , 105, 062601	3-4	68
8	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , 2014 , 104, 052602	3-4	60
7	Catch and release of microwave photon states. <i>Physical Review Letters</i> , 2013 , 110, 107001	7-4	125
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> , 2013 , 103, 122602	3-4	57
5	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , 2013 , 103, 072601	3-4	34
4	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , 2013 , 110, 150502	7-4	37
3	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012 , 100, 113510	3-4	264
2	Flux noise probed with real time qubit tomography in a Josephson phase qubit. <i>Physical Review Letters</i> , 2012 , 109, 067001	7-4	44
1	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011 , 99, 113513	3-4	95