

# P J J O malley

## List of Publications by Citations

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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	State preservation by repetitive error detection in a superconducting quantum circuit. <i>Nature</i> , <b>2015</b> , 519, 66-9	50.4	542
25	Qubit Architecture with High Coherence and Fast Tunable Coupling. <i>Physical Review Letters</i> , <b>2014</b> , 113, 220502	7.4	279
24	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 113510	3.4	264
23	Digitized adiabatic quantum computing with a superconducting circuit. <i>Nature</i> , <b>2016</b> , 534, 222-6	50.4	239
22	Fast accurate state measurement with superconducting qubits. <i>Physical Review Letters</i> , <b>2014</b> , 112, 190504	7.4	200
21	Digital quantum simulation of fermionic models with a superconducting circuit. <i>Nature Communications</i> , <b>2015</b> , 6, 7654	17.4	191
20	Chiral ground-state currents of interacting photons in a synthetic magnetic field. <i>Nature Physics</i> , <b>2017</b> , 13, 146-151	16.2	189
19	Ergodic dynamics and thermalization in an isolated quantum system. <i>Nature Physics</i> , <b>2016</b> , 12, 1037-1041	16.2	154
18	Catch and release of microwave photon states. <i>Physical Review Letters</i> , <b>2013</b> , 110, 107001	7.4	125
17	Observation of topological transitions in interacting quantum circuits. <i>Nature</i> , <b>2014</b> , 515, 241-4	50.4	120
16	Optimal quantum control using randomized benchmarking. <i>Physical Review Letters</i> , <b>2014</b> , 112, 240504	7.4	118
15	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 113513	3.4	95
14	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. <i>Physical Review Letters</i> , <b>2016</b> , 116, 020501	7.4	93
13	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 062601	3.4	68
12	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. <i>Applied Physics Letters</i> , <b>2014</b> , 104, 052602	3.4	60
11	Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation. <i>Physical Review Letters</i> , <b>2016</b> , 117, 190503	7.4	59
10	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

9	Observation of Classical-Quantum Crossover of $1/f$ Flux Noise and Its Paramagnetic Temperature Dependence. <i>Physical Review Letters</i> , <b>2017</b> , 118, 057702	7.4	56
8	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
7	Excitation of superconducting qubits from hot nonequilibrium quasiparticles. <i>Physical Review Letters</i> , <b>2013</b> , 110, 150502	7.4	37
6	Fluctuations from edge defects in superconducting resonators. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 072603	7.4	34
5	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-eggett-Carg inequality. <i>Npj Quantum Information</i> , <b>2016</b> , 2,	8.6	30
4	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , <b>2014</b> , 5, 5184	17.4	27
3	Scalable in situ qubit calibration during repetitive error detection. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	21
2	Rolling quantum dice with a superconducting qubit. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	20
1	Demonstration of gate control of spin splitting in a high-mobility InAs/AlSb two-dimensional electron gas. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	17