

P J J O'malley

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7786581/publications.pdf>

Version: 2024-02-01

26
papers

4,242
citations

236612

25
h-index

552369

26
g-index

26
all docs

26
docs citations

26
times ranked

3775
citing authors

#	ARTICLE	IF	CITATIONS
1	State preservation by repetitive error detection in a superconducting quantum circuit. Nature, 2015, 519, 66-69.	13.7	682
2	Qubit Architecture with High Coherence and Fast Tunable Coupling. Physical Review Letters, 2014, 113, 220502.	2.9	387
3	Planar superconducting resonators with internal quality factors above one million. Applied Physics Letters, 2012, 100, .	1.5	341
4	Digitized adiabatic quantum computing with a superconducting circuit. Nature, 2016, 534, 222-226.	13.7	339
5	Chiral ground-state currents of interacting photons in a synthetic magnetic field. Nature Physics, 2017, 13, 146-151.	6.5	292
6	Fast Accurate State Measurement with Superconducting Qubits. Physical Review Letters, 2014, 112, 190504.	2.9	273
7	Digital quantum simulation of fermionic models with a superconducting circuit. Nature Communications, 2015, 6, 7654.	5.8	258
8	Ergodic dynamics and thermalization in an isolated quantum system. Nature Physics, 2016, 12, 1037-1041.	6.5	208
9	Observation of topological transitions in interacting quantum circuits. Nature, 2014, 515, 241-244.	13.7	162
10	Optimal Quantum Control Using Randomized Benchmarking. Physical Review Letters, 2014, 112, 240504.	2.9	160
11	Catch and Release of Microwave Photon States. Physical Review Letters, 2013, 110, 107001.	2.9	159
12	Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. Physical Review Letters, 2016, 116, 020501.	2.9	137
13	Surface loss simulations of superconducting coplanar waveguide resonators. Applied Physics Letters, 2011, 99, .	1.5	130
14	Measurement-Induced State Transitions in a Superconducting Qubit: Beyond the Rotating Wave Approximation. Physical Review Letters, 2016, 117, 190503.	2.9	91
15	Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. Applied Physics Letters, 2014, 104, .	1.5	89
16	Observation of Classical-Quantum Crossover of $1 < \text{Flux Noise and Its Paramagnetic Temperature Dependence. Physical Review Letters, 2017, 118, 057702.}$	2.9	87
17	Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. Applied Physics Letters, 2014, 105, .	1.5	85
18	Design and characterization of a lumped element single-ended superconducting microwave parametric amplifier with on-chip flux bias line. Applied Physics Letters, 2013, 103, .	1.5	73

#	ARTICLE	IF	CITATIONS
19	Flux Noise Probed with Real Time Qubit Tomography in a Josephson Phase Qubit. Physical Review Letters, 2012, 109, 067001.	2.9	49
20	Excitation of Superconducting Qubits from Hot Nonequilibrium Quasiparticles. Physical Review Letters, 2013, 110, 150502.	2.9	48
21	Fluctuations from edge defects in superconducting resonators. Applied Physics Letters, 2013, 103, .	1.5	44
22	Preserving entanglement during weak measurement demonstrated with a violation of the Bell-“Leggett”-Garg inequality. Npj Quantum Information, 2016, 2, .	2.8	41
23	Emulating weak localization using a solid-state quantum circuit. Nature Communications, 2014, 5, 5184.	5.8	30
24	Scalable <i>in situ</i> qubit calibration during repetitive error detection. Physical Review A, 2016, 94, .	1.0	30
25	Rolling quantum dice with a superconducting qubit. Physical Review A, 2014, 90, .	1.0	27
26	Demonstration of gate control of spin splitting in a high-mobility InAs/AlSb two-dimensional electron gas. Physical Review B, 2016, 93, .	1.1	20