

Robert Mcdermott

List of Publications by Year in descending order

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37
papers

2,957
citations

331259

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all docs

39
docs citations

39
times ranked

2345
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Atomic Configuration Control of Superconductivity in the Undoped Pnictide Parent Compound BaFeAs_2 . ACS Applied Electronic Materials, 2022, 4, 1511-1517.	2.0	2
2	High-Fidelity Measurement of a Superconducting Qubit Using an On-Chip Microwave Photon Counter. Physical Review X, 2021, 11, .	2.8	16
3	Overlap junctions for superconducting quantum electronics and amplifiers. Applied Physics Letters, 2021, 118, 112601.	1.5	2
4	Correlated charge noise and relaxation errors in superconducting qubits. Nature, 2021, 594, 369-373.	13.7	109
5	3D integration and measurement of a semiconductor double quantum dot with a high-impedance TiN resonator. Npj Quantum Information, 2021, 7, .	2.8	19
6	A Josephson Junction with h-BN tunnel barrier: observation of low critical current noise. Journal of Physics Condensed Matter, 2021, 33, .	0.7	1
7	Microwave engineering for semiconductor quantum dots in a cQED architecture. Applied Physics Letters, 2020, 117, .	1.5	8
8	Interfacing Superconducting Qubits With Cryogenic Logic: Readout. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-5.	1.1	21
9	Anomalous charge noise in superconducting qubits. Physical Review B, 2019, 100, .	1.1	36
10	A tunable quantum dissipator for active resonator reset in circuit QED. Quantum Science and Technology, 2019, 4, 025001.	2.6	9
11	Digital Coherent Control of a Superconducting Qubit. Physical Review Applied, 2019, 11, .	1.5	88
12	Quantum-classical interface based on single flux quantum digital logic. Quantum Science and Technology, 2018, 3, 024004.	2.6	105
13	Optimizing microwave photodetection: input-output theory. Quantum Science and Technology, 2018, 3, 024009.	2.6	13
14	Measurement of a superconducting qubit with a microwave photon counter. Science, 2018, 361, 1239-1242.	6.0	62
15	Microwave-to-optical frequency conversion using a cesium atom coupled to a superconducting resonator. Physical Review A, 2017, 96, .	1.0	55
16	Reverse Isolation and Backaction of the SLUG Microwave Amplifier. Physical Review Applied, 2017, 8, .	1.5	6
17	Phonon-mediated quasiparticle poisoning of superconducting microwave resonators. Physical Review B, 2017, 96, .	1.1	50
18	Optimized coplanar waveguide resonators for a superconductor-atom interface. Applied Physics Letters, 2016, 109, 092602.	1.5	13

#	ARTICLE	IF	CITATIONS
19	Origin and Reduction of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Magnetic Flux Noise in Superconducting Devices. <i>Physical Review Applied</i> , 2016, 6, .	1.5	105
20	Scalable two- and four-qubit parity measurement with a threshold photon counter. <i>Physical Review A</i> , 2015, 92, .	1.0	12
21	High fidelity qubit readout with the superconducting low-inductance undulatory galvanometer microwave amplifier. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	19
22	High-fidelity qubit measurement with a microwave-photon counter. <i>Physical Review A</i> , 2014, 90, .	1.0	36
23	Accurate Qubit Control with Single Flux Quantum Pulses. <i>Physical Review Applied</i> , 2014, 2, .	1.5	62
24	Epitaxial Al ₂ O ₃ capacitors for low microwave loss superconducting quantum circuits. <i>APL Materials</i> , 2013, 1, .	2.2	9
25	Superconducting low-inductance undulatory galvanometer microwave amplifier. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	32
26	Microwave Photon Counter Based on Josephson Junctions. <i>Physical Review Letters</i> , 2011, 107, 217401.	2.9	184
27	Microstrip superconducting quantum interference device amplifiers with submicron Josephson junctions: Enhanced gain at gigahertz frequencies. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	11
28	Microstrip superconducting quantum interference device radio-frequency amplifier: Effects of negative feedback on input impedance. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	6
29	Complex Inductance, Excess Noise, and Surface Magnetism in dc SQUIDs. <i>Physical Review Letters</i> , 2009, 103, 117001.	2.9	52
30	Microwave response of vortices in superconducting thin films of Re and Al. <i>Physical Review B</i> , 2009, 79, .	1.1	96
31	Materials Origins of Decoherence in Superconducting Qubits. <i>IEEE Transactions on Applied Superconductivity</i> , 2009, 19, 2-13.	1.1	76
32	Magnetism in SQUIDs at Millikelvin Temperatures. <i>Physical Review Letters</i> , 2008, 100, 227006.	2.9	127
33	State Tomography of Capacitively Shunted Phase Qubits with High Fidelity. <i>Physical Review Letters</i> , 2006, 97, 050502.	2.9	167
34	Simultaneous State Measurement of Coupled Josephson Phase Qubits. <i>Science</i> , 2005, 307, 1299-1302.	6.0	263
35	Decoherence in Josephson Qubits from Dielectric Loss. <i>Physical Review Letters</i> , 2005, 95, 210503.	2.9	616
36	Observation of Quantum Oscillations between a Josephson Phase Qubit and a Microscopic Resonator Using Fast Readout. <i>Physical Review Letters</i> , 2004, 93, 180401.	2.9	189

#	ARTICLE	IF	CITATIONS
37	Liquid-State NMR and Scalar Couplings in Microtesla Magnetic Fields. Science, 2002, 295, 2247-2249.	6.0	279