Philip Krantz

List of Publications by Citations

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26 1,200 15 27 g-index

27 2,017 9 4.87 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
26	A quantum engineers guide to superconducting qubits. <i>Applied Physics Reviews</i> , 2019 , 6, 021318	17.3	358
25	Superconducting Qubits: Current State of Play. <i>Annual Review of Condensed Matter Physics</i> , 2020 , 11, 369-395	19.7	257
24	3D integrated superconducting qubits. Npj Quantum Information, 2017, 3,	8.6	81
23	Coherent control of a hybrid superconducting circuit made with graphene-based van der Waals heterostructures. <i>Nature Nanotechnology</i> , 2019 , 14, 120-125	28.7	75
22	Tunable Coupling Scheme for Implementing High-Fidelity Two-Qubit Gates. <i>Physical Review Applied</i> , 2018 , 10,	4.3	63
21	Direct observation of the thickness distribution of ultra thin AlOxbarriers in Al/AlOx/Al Josephson junctions. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 395308	3	44
20	Single-shot read-out of a superconducting qubit using a Josephson parametric oscillator. <i>Nature Communications</i> , 2016 , 7, 11417	17.4	42
19	Waveguide quantum electrodynamics with superconducting artificial giant atoms. <i>Nature</i> , 2020 , 583, 775-779	50.4	40
18	Characterization of a multimode coplanar waveguide parametric amplifier. <i>Journal of Applied Physics</i> , 2015 , 118, 154501	2.5	33
17	Coupling of an erbium spin ensemble to a superconducting resonator. <i>Journal of Physics B: Atomic, Molecular and Optical Physics,</i> 2012 , 45, 124019	1.3	28
16	Distinguishing Coherent and Thermal Photon Noise in a Circuit Quantum Electrodynamical System. <i>Physical Review Letters</i> , 2018 , 120, 260504	7.4	27
15	Investigation of nonlinear effects in Josephson parametric oscillators used in circuit quantum electrodynamics. <i>New Journal of Physics</i> , 2013 , 15, 105002	2.9	24
14	Improved Success Probability with Greater Circuit Depth for the Quantum Approximate Optimization Algorithm. <i>Physical Review Applied</i> , 2020 , 14,	4.3	20
13	Period-tripling subharmonic oscillations in a driven superconducting resonator. <i>Physical Review B</i> , 2017 , 96,	3.3	19
12	The pumpistor: A linearized model of a flux-pumped superconducting quantum interference device for use as a negative-resistance parametric amplifier. <i>Applied Physics Letters</i> , 2013 , 103, 102603	3.4	15
11	Fabrication of large dimension aluminum air-bridges for superconducting quantum circuits. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2013 , 31, 031601	1.3	12
10	Simplified Josephson-junction fabrication process for reproducibly high-performance superconducting qubits. <i>Applied Physics Letters</i> , 2021 , 118, 064002	3.4	11

LIST OF PUBLICATIONS

9	The atomic details of the interfacial interaction between the bottom electrode of Al/AlOx/Al Josephson junctions and HF-treated Si substrates. <i>Journal of Applied Physics</i> , 2015 , 117, 163915	2.5	10	
8	Generating spatially entangled itinerant photons with waveguide quantum electrodynamics. <i>Science Advances</i> , 2020 , 6,	14.3	9	
7	Correlation between Al grain size, grain boundary grooves and local variations in oxide barrier thickness of Al/AlOx/Al tunnel junctions by transmission electron microscopy. <i>SpringerPlus</i> , 2016 , 5, 106	67	9	
6	Nondegenerate parametric oscillations in a tunable superconducting resonator. <i>Physical Review B</i> , 2018 , 97,	3.3	8	
5	Microwave photon generation in a doubly tunable superconducting resonator. <i>Journal of Physics: Conference Series</i> , 2018 , 969, 012146	0.3	6	
4	Multi-level quantum noise spectroscopy. <i>Nature Communications</i> , 2021 , 12, 967	17.4	4	
3	An On-Chip Mach-Zehnder Interferometer in the Microwave Regime. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 448-451	1.8	3	
2	Niobium and Aluminum Josephson Junctions Fabricated with a Damascene CMP Process. <i>Physics Procedia</i> , 2012 , 36, 211-216		1	
1	Microwave calibration of qubit drive line components at millikelvin temperatures. <i>Applied Physics Letters</i> , 2022 , 120, 054004	3.4	1	