

Sebastian De Graaf

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

500
citations

840776

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h-index

677142

22
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all docs

23
docs citations

23
times ranked

732
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Identification of Dilute Surface Spins on $\text{Al}/\text{Si}/\text{SiO}_2$ Heterostructures. <i>Physical Review Letters</i> , 2017, 118, 057703.	17.0	138
2	Suppression of low-frequency charge noise in superconducting resonators by surface spin desorption. <i>Nature Communications</i> , 2018, 9, 1143.	12.8	57
3	Mixed valence radical cations and intermolecular complexes derived from indenofluorene-extended tetrathiafulvalenes. <i>Journal of Materials Chemistry C</i> , 2014, 2, 10428-10438.	5.5	47
4	Charge quantum interference device. <i>Nature Physics</i> , 2018, 14, 590-594.	16.7	47
5	Magnetic field resilient superconducting fractal resonators for coupling to free spins. <i>Journal of Applied Physics</i> , 2012, 112, .	2.5	44
6	Two-level systems in superconducting quantum devices due to trapped quasiparticles. <i>Science Advances</i> , 2020, 6, .	10.3	44
7	Fast Tunable High-Q-Factor Superconducting Microwave Resonators. <i>Physical Review Applied</i> , 2020, 14, .	3.8	29
8	A near-field scanning microwave microscope based on a superconducting resonator for low power measurements. <i>Review of Scientific Instruments</i> , 2013, 84, 023706.	1.3	26
9	Near-Field Scanning Microwave Microscopy in the Single Photon Regime. <i>Scientific Reports</i> , 2019, 9, 12539.	3.3	26
10	Charge Qubit Coupled to an Intense Microwave Electromagnetic Field in a Superconducting Nb Device: Evidence for Photon-Assisted Quasiparticle Tunneling. <i>Physical Review Letters</i> , 2013, 111, 137002.	7.8	24
11	Galvanically split superconducting microwave resonators for introducing internal voltage bias. <i>Applied Physics Letters</i> , 2014, 104, 052601.	3.3	18
12	Probing photon statistics of coherent states by continuous wave mixing on a two-level system. <i>Physical Review A</i> , 2019, 100, .	2.5	11
13	Coupling of a locally implanted rare-earth ion ensemble to a superconducting micro-resonator. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	10
14	Charge control of blockade of Cooper pair tunneling in highly disordered TiN nanowires in an inductive environment. <i>Physical Review B</i> , 2019, 99, .	3.2	10
15	Coherent interaction with two-level fluctuators using near field scanning microwave microscopy. <i>Scientific Reports</i> , 2015, 5, 17176.	3.3	9
16	Characterizing Scattering Parameters of Superconducting Quantum Integrated Circuits at Milli-Kelvin Temperatures. <i>IEEE Access</i> , 2022, 10, 43376-43386.	4.2	7
17	Chemical and structural identification of material defects in superconducting quantum circuits. <i>Materials for Quantum Technology</i> , 2022, 2, 032001.	3.1	7
18	Multiplexing Superconducting Qubit Circuit for Single Microwave Photon Generation. <i>Journal of Low Temperature Physics</i> , 2017, 189, 60-75.	1.4	6

#	ARTICLE	IF	CITATIONS
19	Quantifying dynamics and interactions of individual spurious low-energy fluctuators in superconducting circuits. <i>Physical Review B</i> , 2021, 103, .	3.2	6
20	1/f frequency noise of superconducting resonators in large magnetic fields. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	5
21	On the nature of decoherence in quantum circuits: Revealing the structural motif of the surface radicals in $\hat{\pm}\text{-Al}_{2}\text{O}_{3}$. <i>Science Advances</i> , 2022, 8, eabm6169.	10.3	5
22	Effects of quasiparticle tunnelling in a circuit-QED realization of a strongly driven two-level system. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 224019.	1.5	4
23	Dual Fraunhofer interference and charge fluctuations in long quantum phase slip wires. <i>Physical Review B</i> , 2020, 102, .	3.2	0