

Matteo Mariani

List of Publications by Year in descending order

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25
papers

3,585
citations

471061

17
h-index

610482

24
g-index

25
all docs

25
docs citations

25
times ranked

3073
citing authors

#	ARTICLE	IF	CITATIONS
1	Interacting defects generate stochastic fluctuations in superconducting qubits. <i>Physical Review B</i> , 2021, 104, .	1.1	14
2	Resonant Coupling Parameter Estimation with Superconducting Qubits. <i>PRX Quantum</i> , 2021, 2, .	3.5	0
3	Improving the Time Stability of Superconducting Planar Resonators. <i>MRS Advances</i> , 2019, 4, 2201-2215.	0.5	5
4	Mitigating leakage errors due to cavity modes in a superconducting quantum computer. <i>Quantum Science and Technology</i> , 2018, 3, 034004.	2.6	7
5	Substrate surface engineering for high-quality silicon/aluminum superconducting resonators. <i>Superconductor Science and Technology</i> , 2018, 31, 125013.	1.8	38
6	Thin film metrology and microwave loss characterization of indium and aluminum/indium superconducting planar resonators. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	7
7	Thermocompression bonding technology for multilayer superconducting quantum circuits. <i>Applied Physics Letters</i> , 2017, 111, 123501.	1.5	6
8	Growth and characterization of epitaxial aluminum layers on gallium-arsenide substrates for superconducting quantum bits. <i>Superconductor Science and Technology</i> , 2016, 29, 064004.	1.8	7
9	Three-Dimensional Wiring for Extensible Quantum Computing: The Quantum Socket. <i>Physical Review Applied</i> , 2016, 6, .	1.5	55
10	Emulating weak localization using a solid-state quantum circuit. <i>Nature Communications</i> , 2014, 5, 5184.	5.8	30
11	Excitation of Superconducting Qubits from Hot Nonequilibrium Quasiparticles. <i>Physical Review Letters</i> , 2013, 110, 150502.	2.9	48
12	Multiplexed dispersive readout of superconducting phase qubits. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	67
13	Dynamic quantum Kerr effect in circuit quantum electrodynamics. <i>Physical Review A</i> , 2012, 85, .	1.0	13
14	Surface codes: Towards practical large-scale quantum computation. <i>Physical Review A</i> , 2012, 86, .	1.0	1,607
15	Planar superconducting resonators with internal quality factors above one million. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	341
16	Computing prime factors with a Josephson phase qubit quantum processor. <i>Nature Physics</i> , 2012, 8, 719-723.	6.5	238
17	Photon shell game in three-resonator circuit quantum electrodynamics. <i>Nature Physics</i> , 2011, 7, 287-293.	6.5	114
18	Surface loss simulations of superconducting coplanar waveguide resonators. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	130

#	ARTICLE	IF	CITATIONS
19	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. <i>Physical Review B</i> , 2011, 84, .	1.1	81
20	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	184
21	Implementing the Quantum von Neumann Architecture with Superconducting Circuits. <i>Science</i> , 2011, 334, 61-65.	6.0	246
22	Resonant quantum gates in circuit quantum electrodynamics. <i>Physical Review B</i> , 2010, 82, .	1.1	45
23	Planck Spectroscopy and Quantum Noise of Microwave Beam Splitters. <i>Physical Review Letters</i> , 2010, 105, 133601.	2.9	61
24	Quantum process tomography of two-qubit controlled-Z and controlled-NOT gates using superconducting phase qubits. <i>Physical Review B</i> , 2010, 82, .	1.1	93
25	Two-resonator circuit quantum electrodynamics: A superconducting quantum switch. <i>Physical Review B</i> , 2008, 78, .	1.1	148