

Matteo Mariani

List of Publications by Year in descending order

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25
papers

3,585
citations

471509
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610901
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. Physical Review B, 2021, 104, .	3.2	14
2	Resonant Coupling Parameter Estimation with Superconducting Qubits. PRX Quantum, 2021, 2, .	9.2	0
3	Improving the Time Stability of Superconducting Planar Resonators. MRS Advances, 2019, 4, 2201-2215.	0.9	5
4	Mitigating leakage errors due to cavity modes in a superconducting quantum computer. Quantum Science and Technology, 2018, 3, 034004.	5.8	7
5	Substrate surface engineering for high-quality silicon/aluminum superconducting resonators. Superconductor Science and Technology, 2018, 31, 125013.	3.5	38
6	Thin film metrology and microwave loss characterization of indium and aluminum/indium superconducting planar resonators. Journal of Applied Physics, 2018, 123, .	2.5	7
7	Thermocompression bonding technology for multilayer superconducting quantum circuits. Applied Physics Letters, 2017, 111, 123501.	3.3	6
8	Growth and characterization of epitaxial aluminum layers on gallium-arsenide substrates for superconducting quantum bits. Superconductor Science and Technology, 2016, 29, 064004.	3.5	7
9	Three-Dimensional Wiring for Extensible Quantum Computing: The Quantum Socket. Physical Review Applied, 2016, 6, .	3.8	55
10	Emulating weak localization using a solid-state quantum circuit. Nature Communications, 2014, 5, 5184.	12.8	30
11	Excitation of Superconducting Qubits from Hot Nonequilibrium Quasiparticles. Physical Review Letters, 2013, 110, 150502.	7.8	48
12	Multiplexed dispersive readout of superconducting phase qubits. Applied Physics Letters, 2012, 101, .	3.3	67
13	Dynamic quantum Kerr effect in circuit quantum electrodynamics. Physical Review A, 2012, 85, .	2.5	13
14	Surface codes: Towards practical large-scale quantum computation. Physical Review A, 2012, 86, .	2.5	1,607
15	Planar superconducting resonators with internal quality factors above one million. Applied Physics Letters, 2012, 100, .	3.3	341
16	Computing prime factors with a Josephson phase qubit quantum processor. Nature Physics, 2012, 8, 719-723.	16.7	238
17	Photon shell game in three-resonator circuit quantum electrodynamics. Nature Physics, 2011, 7, 287-293.	16.7	114
18	Surface loss simulations of superconducting coplanar waveguide resonators. Applied Physics Letters, 2011, 99, .	3.3	130

#	ARTICLE	IF	CITATIONS
19	Measurement of energy decay in superconducting qubits from nonequilibrium quasiparticles. Physical Review B, 2011, 84, .	3.2	81
20	Minimizing quasiparticle generation from stray infrared light in superconducting quantum circuits. Applied Physics Letters, 2011, 99, .	3.3	184
21	Implementing the Quantum von Neumann Architecture with Superconducting Circuits. Science, 2011, 334, 61-65.	12.6	246
22	Resonant quantum gates in circuit quantum electrodynamics. Physical Review B, 2010, 82, .	3.2	45
23	Planck Spectroscopy and Quantum Noise of Microwave Beam Splitters. Physical Review Letters, 2010, 105, 133601.	7.8	61
24	Quantum process tomography of two-qubit controlled-Z and controlled-NOT gates using superconducting phase qubits. Physical Review B, 2010, 82, .	3.2	93
25	Two-resonator circuit quantum electrodynamics: A superconducting quantum switch. Physical Review B, 2008, 78, .	3.2	148