Clemens MÃ¼ller

List of Publications by Year
in descending order

30 papers	1,197 citations	361413 20 h-index	454955 30 g-index
30 all docs	30 docs citations	30 times ranked	1264 citing authors

#	Article	IF	Citations
1	Towards understanding two-level-systems in amorphous solids: insights from quantum circuits. Reports on Progress in Physics, 2019, 82, 124501.	20.1	239
2	Observation of directly interacting coherent two-level systems in an amorphous material. Nature Communications, 2015, 6, 6182.	12.8	105
3	Correlating Decoherence in Transmon Qubits: Low Frequency Noise by Single Fluctuators. Physical Review Letters, 2019, 123, 190502.	7.8	104
4	Interacting two-level defects as sources of fluctuating high-frequency noise in superconducting circuits. Physical Review B, 2015, 92, .	3.2	90
5	Nonreciprocity Realized with Quantum Nonlinearity. Physical Review Letters, 2018, 121, 123601.	7.8	71
6	Measuring the Temperature Dependence of Individual Two-Level Systems by Direct Coherent Control. Physical Review Letters, 2010, 105, 230504.	7.8	64
7	Microwave Photon-Mediated Interactions between Semiconductor Qubits. Physical Review X, 2018, 8, .	8.9	42
8	Quantum Zeno effect in the strong measurement regime of circuit quantum electrodynamics. New Journal of Physics, 2016, 18, 053031.	2.9	40
9	Passive On-Chip Superconducting Circulator Using a Ring of Tunnel Junctions. Physical Review Letters, 2018, 120, 213602.	7.8	39
10	Virtual-photon-mediated spin-qubitâ€“transmon coupling. Nature Communications, 2019, 10, 5037.	12.8	39
11	Pure dephasing in flux qubits due to flux noise with spectral density scaling as1/fÎ±. Physical Review B, 2012, 85, .	3.2	33
12	Rabi spectroscopy of a qubit-fluctuator system. Physical Review B, 2010, 81, .	3.2	32
13	Deriving Lindblad master equations with Keldysh diagrams: Correlated gain and loss in higher order perturbation theory. Physical Review A, 2017, 95, .	2.5	32
14	Quantitative evaluation of defect-models in superconducting phase qubits. Applied Physics Letters, 2010, 97, .	3.3	29
15	Multiphoton spectroscopy of a hybrid quantum system. Physical Review B, 2010, 82, .	3.2	28
16	Detection and manipulation of Majorana fermions in circuit QED. Physical Review B, 2013, 88, .	3.2	28
17	Geometric quantum gates with superconducting qubits. Physical Review B, 2011, 83, .	3.2	26
18	Nonreciprocal atomic scattering: A saturable, quantum Yagi-Uda antenna. Physical Review A, 2017, 96, .	2.5	23

#	Article	IF	Citations
19	Doubly nonlinear superconducting qubit. Physical Review A, 2019, 100, .	2.5	23
20	Relaxation of Josephson qubits due to strong coupling to two-level systems. Physical Review B, 2009, 80, .	3.2	21
21	In situ Tuning of the Electric-Dipole Strength of a Double-Dot Charge Qubit: Charge-Noise Protection and Ultrastrong Coupling. Physical Review X, 2022, 12, .	8.9	20
22	Dual-probe decoherence microscopy: probing pockets of coherence in a decohering environment. New Journal of Physics, 2012, 14, 023013.	2.9	12
23	Quantum Rifling: Protecting a Qubit from Measurement Back Action. Physical Review Letters, 2020, 124, 070401.	7.8	12
24	Ultrahigh vacuum packaging and surface cleaning for quantum devices. Review of Scientific Instruments, 2021, 92, 025121.	1.3	10
25	Entangling microscopic defects via a macroscopic quantum shuttle. New Journal of Physics, 2011, 13, 063015.	2.9	9
26	Effects of surface treatments on flux tunable transmon qubits. Npj Quantum Information, 2021, 7, .	6.7	9
27	Aharonov-Bohm interference as a probe of Majorana fermions. Physical Review Research, 2020, 2, .	3.6	7
28	Dissipative Rabi model in the dispersive regime. Physical Review Research, 2020, 2, .	3.6	5
29	Operating a passive on-chip superconducting circulator: Device control and quasiparticle effects. Physical Review Research, 2021, 3, .	3.6	4
30	T1-echo sequence: Protecting the state of a qubit in the presence of coherent interaction. Physical Review A, 2012, 86, .	2.5	1