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	<i>In situ</i> 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
2	Ultrahigh vacuum packaging and surface cleaning for quantum devices. Review of Scientific Instruments, 2021, 92, 025121.	1.3	10
3	Effects of surface treatments on flux tunable transmon qubits. Npj Quantum Information, 2021, 7, .	6.7	9
4	Operating a passive on-chip superconducting circulator: Device control and quasiparticle effects. Physical Review Research, 2021, 3, .	3.6	4
5	Quantum Rifling: Protecting a Qubit from Measurement Back Action. Physical Review Letters, 2020, 124, 070401.	7.8	12
6	Dissipative Rabi model in the dispersive regime. Physical Review Research, 2020, 2, .	3.6	5
7	Aharonov-Bohm interference as a probe of Majorana fermions. Physical Review Research, 2020, 2, .	3.6	7
8	Towards understanding two-level-systems in amorphous solids: insights from quantum circuits. Reports on Progress in Physics, 2019, 82, 124501.	20.1	239
9	Virtual-photon-mediated spin-qubitâ€"transmon coupling. Nature Communications, 2019, 10, 5037.	12.8	39
10	Correlating Decoherence in Transmon Qubits: Low Frequency Noise by Single Fluctuators. Physical Review Letters, 2019, 123, 190502.	7.8	104
11	Doubly nonlinear superconducting qubit. Physical Review A, 2019, 100, .	2.5	23
12	Microwave Photon-Mediated Interactions between Semiconductor Qubits. Physical Review X, 2018, 8, .	8.9	42
13	Nonreciprocity Realized with Quantum Nonlinearity. Physical Review Letters, 2018, 121, 123601.	7.8	71
14	Passive On-Chip Superconducting Circulator Using a Ring of Tunnel Junctions. Physical Review Letters, 2018, 120, 213602.	7.8	39
15	Deriving Lindblad master equations with Keldysh diagrams: Correlated gain and loss in higher order perturbation theory. Physical Review A, 2017, 95, .	2.5	32
16	Nonreciprocal atomic scattering: A saturable, quantum Yagi-Uda antenna. Physical Review A, 2017, 96, .	2.5	23
17	Quantum Zeno effect in the strong measurement regime of circuit quantum electrodynamics. New Journal of Physics, 2016, 18, 053031.	2.9	40
18	Interacting two-level defects as sources of fluctuating high-frequency noise in superconducting circuits. Physical Review B, 2015, 92, .	3.2	90

#	Article	IF	Citations
19	Observation of directly interacting coherent two-level systems in an amorphous material. Nature Communications, 2015, 6, 6182.	12.8	105
20	Detection and manipulation of Majorana fermions in circuit QED. Physical Review B, 2013, 88, .	3.2	28
21	Pure dephasing in flux qubits due to flux noise with spectral density scaling as1/fÎ±. Physical Review B, 2012, 85, .	3.2	33
22	Dual-probe decoherence microscopy: probing pockets of coherence in a decohering environment. New Journal of Physics, 2012, 14, 023013.	2.9	12
23	T1-echo sequence: Protecting the state of a qubit in the presence of coherent interaction. Physical Review A, 2012, 86, .	2.5	1
24	Geometric quantum gates with superconducting qubits. Physical Review B, 2011, 83, .	3.2	26
25	Entangling microscopic defects via a macroscopic quantum shuttle. New Journal of Physics, 2011, 13, 063015.	2.9	9
26	Rabi spectroscopy of a qubit-fluctuator system. Physical Review B, 2010, 81, .	3.2	32
27	Quantitative evaluation of defect-models in superconducting phase qubits. Applied Physics Letters, 2010, 97, .	3.3	29
28	Measuring the Temperature Dependence of Individual Two-Level Systems by Direct Coherent Control. Physical Review Letters, 2010, 105, 230504.	7.8	64
29	Multiphoton spectroscopy of a hybrid quantum system. Physical Review B, 2010, 82, .	3.2	28
30	Relaxation of Josephson qubits due to strong coupling to two-level systems. Physical Review B, 2009, 80, .	3.2	21