

Michael R Geller

List of Publications by Year in descending order

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29
papers

1,351
citations

471509

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501196

28
g-index

29
all docs

29
docs citations

29
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Qubit Architecture with High Coherence and Fast Tunable Coupling. Physical Review Letters, 2014, 113, 220502.	7.8	387
2	Emulation of a Quantum Spin with a Superconducting Phase Qudit. Science, 2009, 325, 722-725.	12.6	237
3	Fast adiabatic qubit gates using only \sqrt{X} gates. Physical Review A, 2014, 90, .	2.5	137
4	High-fidelity controlled- \sqrt{X} gate for resonator-based superconducting quantum computers. Physical Review A, 2013, 87, .	2.5	75
5	Superconducting phase qubit coupled to a nanomechanical resonator: Beyond the rotating-wave approximation. Physical Review A, 2004, 70, .	2.5	57
6	Tunable coupler for superconducting Xmon qubits: Perturbative nonlinear model. Physical Review A, 2015, 92, .	2.5	57
7	Surface code with decoherence: An analysis of three superconducting architectures. Physical Review A, 2012, 86, .	2.5	55
8	Efficient error models for fault-tolerant architectures and the Pauli twirling approximation. Physical Review A, 2013, 88, .	2.5	48
9	Understanding the effects of leakage in superconducting quantum-error-detection circuits. Physical Review A, 2013, 88, .	2.5	44
10	Rigorous measurement error correction. Quantum Science and Technology, 2020, 5, 03LT01.	5.8	33
11	Toward efficient correction of multiqubit measurement errors: pair correlation method. Quantum Science and Technology, 2021, 6, 025009.	5.8	31
12	Analysis of a tunable coupler for superconducting phase qubits. Physical Review B, 2010, 82, .	3.2	30
13	Quantum logic with weakly coupled qubits. Physical Review A, 2010, 81, .	2.5	21
14	Controlled-not gate with weakly coupled qubits: Dependence of fidelity on the form of interaction. Physical Review A, 2010, 81, .	2.5	19
15	Factoring 51 and 85 with 8 qubits. Scientific Reports, 2013, 3, 3023.	3.3	19
16	Universal quantum simulation with prethreshold superconducting qubits: Single-excitation subspace method. Physical Review A, 2015, 91, .	2.5	19
17	Simulating the transverse Ising model on a quantum computer: Error correction with the surface code. Physical Review A, 2013, 87, .	2.5	18
18	Logical error rate in the Pauli twirling approximation. Scientific Reports, 2015, 5, 14670.	3.3	11

#	ARTICLE	IF	CITATIONS
19	Sampling and Scrambling on a Chain of Superconducting Qubits. <i>Physical Review Applied</i> , 2018, 10, .	3.8	11
20	Conditionally Rigorous Mitigation of Multiqubit Measurement Errors. <i>Physical Review Letters</i> , 2021, 127, 090502.	7.8	11
21	Aharonov-Bohm effect in the non-Abelian quantum Hall fluid. <i>Physical Review B</i> , 2006, 73, .	3.2	8
22	Decoherence and interferometric sensitivity of boson sampling in superconducting resonator networks. <i>Physical Review B</i> , 2017, 95, .	3.2	6
23	Quantum simulation of operator spreading in the chaotic Ising model. <i>Physical Review E</i> , 2022, 105, 035302.	2.1	6
24	Experimental quantum learning of a spectral decomposition. <i>Physical Review Research</i> , 2021, 3, .	3.6	4
25	Controlled-NOT logic gate for phase qubits based on conditional spectroscopy. <i>Quantum Information Processing</i> , 2012, 11, 1349-1357.	2.2	2
26	Three-step implementation of anyn \tilde{A} -nunitary with a complete graph of nqubits. <i>Physical Review A</i> , 2015, 92, .	2.5	2
27	Toward prethreshold gate-based quantum simulation of chemical dynamics: using potential energy surfaces to simulate few-channel molecular collisions. <i>Quantum Information Processing</i> , 2018, 17, 1.	2.2	2
28	Fusing the single-excitation subspace with \mathbb{C}^{2^n} . <i>Scientific Reports</i> , 2021, 11, 402.	3.3	1
29	Quantum gate design: A perspective. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 972-974.	1.5	0