Michael R Geller

List of Publications by Year
in descending order

29 papers	1,351 citations	471509 17 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	1538 citing authors

#	Article	IF	Citations
1	Quantum simulation of operator spreading in the chaotic Ising model. Physical Review E, 2022, 105, 035302.	2.1	6
2	Fusing the single-excitation subspace with $${mathbb C}^{2^n}$$. Scientific Reports, 2021, 11, 402.	3.3	1
3	Toward efficient correction of multiqubit measurement errors: pair correlation method. Quantum Science and Technology, 2021, 6, 025009.	5.8	31
4	Experimental quantum learning of a spectral decomposition. Physical Review Research, 2021, 3, .	3.6	4
5	Conditionally Rigorous Mitigation of Multiqubit Measurement Errors. Physical Review Letters, 2021, 127, 090502.	7.8	11
6	Rigorous measurement error correction. Quantum Science and Technology, 2020, 5, 03LT01.	5.8	33
7	Toward prethreshold gate-based quantum simulation of chemical dynamics: using potential energy surfaces to simulate few-channel molecular collisions. Quantum Information Processing, 2018, 17, 1.	2.2	2
8	Sampling and Scrambling on a Chain of Superconducting Qubits. Physical Review Applied, 2018, 10, .	3.8	11
9	Decoherence and interferometric sensitivity of boson sampling in superconducting resonator networks. Physical Review B, 2017, 95, .	3.2	6
10	Tunable coupler for superconducting Xmon qubits: Perturbative nonlinear model. Physical Review A, 2015, 92, .	2.5	57
11	Three-step implementation of anynÃ—nunitary with a complete graph ofnqubits. Physical Review A, 2015, 92, .	2.5	2
12	Universal quantum simulation with prethreshold superconducting qubits: Single-excitation subspace method. Physical Review A, 2015, 91, .	2.5	19
13	Logical error rate in the Pauli twirling approximation. Scientific Reports, 2015, 5, 14670.	3.3	11
14	Qubit Architecture with High Coherence and Fast Tunable Coupling. Physical Review Letters, 2014, 113, 220502.	7.8	387
15	Fast adiabatic qubit gates using only<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>Ïƒ</mml:mi><mml:mi>z</mml:mi></mml:msub></mml:m Physical Review A, 2014, 90, .	2.5	137
16	High-fidelity controlled-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ïƒ</mml:mi><mml:mi>Z</mml:mi></mml:msup></mml:math>gate for resonator-based superconducting quantum computers. Physical Review A, 2013, 87, .	2.5	75
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	Understanding the effects of leakage in superconducting quantum-error-detection circuits. Physical Review A, 2013, 88, .	2.5	44

#	Article	IF	Citations
19	Efficient error models for fault-tolerant architectures and the Pauli twirling approximation. Physical Review A, 2013, 88, .	2.5	48
20	Factoring 51 and 85 with 8 qubits. Scientific Reports, 2013, 3, 3023.	3.3	19
21	Surface code with decoherence: An analysis of three superconducting architectures. Physical Review A, 2012, 86, .	2.5	55
22	Controlled-NOT logic gate for phase qubits based on conditional spectroscopy. Quantum Information Processing, 2012, 11, 1349-1357.	2.2	2
23	Analysis of a tunable coupler for superconducting phase qubits. Physical Review B, 2010, 82, .	3.2	30
24	Quantum logic with weakly coupled qubits. Physical Review A, 2010, 81, .	2.5	21
25	Controlled-not gate with weakly coupled qubits: Dependence of fidelity on the form of interaction. Physical Review A, 2010, 81, .	2.5	19
26	Quantum gate design: A perspective. Physica Status Solidi (B): Basic Research, 2009, 246, 972-974.	1.5	0
27	Emulation of a Quantum Spin with a Superconducting Phase Qudit. Science, 2009, 325, 722-725.	12.6	237
28	Aharonov-Bohm effect in the non-Abelian quantum Hall fluid. Physical Review B, 2006, 73, .	3.2	8
29	Superconducting phase qubit coupled to a nanomechanical resonator: Beyond the rotating-wave approximation. Physical Review A, 2004, 70, .	2.5	57