Norbert Linke

List of Publications by Year
in descending order

32 papers	2,787 citations	361413 20 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	2687 citing authors

#	Article	IF	Citations
1	Demonstration of a small programmable quantum computer with atomic qubits. Nature, 2016, 536, 63-66.	27.8	549
2	High-Fidelity Preparation, Gates, Memory, and Readout of a Trapped-Ion Quantum Bit. Physical Review Letters, 2014, 113, 220501.	7.8	426
3	Experimental comparison of two quantum computing architectures. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3305-3310.	7.1	326
4	Verified quantum information scrambling. Nature, 2019, 567, 61-65.	27.8	219
5	Complete 3-Qubit Grover search on a programmable quantum computer. Nature Communications, 2017, 8, 1918.	12.8	153
6	Training of quantum circuits on a hybrid quantum computer. Science Advances, 2019, 5, eaaw9918.	10.3	134
7	Parallel entangling operations on a universal ion-trap quantum computer. Nature, 2019, 572, 368-372.	27.8	115
8	Fault-tolerant quantum error detection. Science Advances, 2017, 3, e1701074.	10.3	113
9	Robust 2-Qubit Gates in a Linear Ion Crystal Using a Frequency-Modulated Driving Force. Physical Review Letters, 2018, 120, 020501.	7.8	86
10	Hybrid quantum logic and a test of Bell's inequality using two different atomic isotopes. Nature, 2015, 528, 384-386.	27.8	81
11	Measuring the Rényi entropy of a two-site Fermi-Hubbard model on a trapped ion quantum computer. Physical Review A, 2018, 98, .	2.5	77
12	Generation of thermofield double states and critical ground states with a quantum computer. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25402-25406.	7.1	66
13	Two-qubit entangling gates within arbitrarily long chains of trapped ions. Physical Review A, 2019, 100, .	2.5	59
14	Toward simulating quantum field theories with controlled phonon-ion dynamics: A hybrid analog-digital approach. Physical Review Research, 2021, 3, .	3.6	42
15	Heating rate and electrode charging measurements in a scalable, microfabricated, surface-electrode ion trap. Applied Physics B: Lasers and Optics, 2012, 107, 913-919.	2.2	40
16	Machine learning assisted readout of trapped-ion qubits. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 174006.	1.5	38
17	Observation of Hopping and Blockade of Bosons in a Trapped Ion Spin Chain. Physical Review Letters, 2018, 120, 073001.	7.8	35
18	Digital Quantum Simulation of the Schwinger Model and Symmetry Protection with Trapped Ions. PRX Quantum, 2022, 3, .	9.2	35

#	Article	IF	Citations
19	Toward convergence of effective-field-theory simulations on digital quantum computers. Physical Review A, 2019, 100, .	2.5	28
20	Quantum walks and Dirac cellular automata on a programmable trapped-ion quantum computer. Nature Communications, 2020, 11, 3720.	12.8	28
21	Many-body thermodynamics on quantum computers via partition function zeros. Science Advances, 2021, 7, .	10.3	22
22	Efficient Stabilized Two-Qubit Gates on a Trapped-Ion Quantum Computer. Physical Review Letters, 2021, 126, 220503.	7.8	20
23	Experimental Measurement of Out-of-Time-Ordered Correlators at Finite Temperature. Physical Review Letters, 2022, 128, 140601.	7.8	18
24	Probing many-body localization on a noisy quantum computer. Physical Review A, 2021, 103, .	2.5	17
25	Real-time quantum calculations of phase shifts using wave packet time delays. Physical Review D, 2021, 104, .	4.7	15
26	Multiplexed quantum repeaters based on dual-species trapped-ion systems. Physical Review A, 2022, 105, .	2.5	13
27	Validating and certifying stabilizer states. Physical Review A, 2019, 99, .	2.5	8
28	Demonstration of Shor Encoding on a Trapped-Ion Quantum Computer. Physical Review Applied, 2021, 16, .	3.8	8
29	Demonstration of a Bayesian quantum game on an ion-trap quantum computer. Quantum Science and Technology, 2018, 3, 045002.	5.8	6
30	Quantum circuits for the realization of equivalent forms of one-dimensional discrete-time quantum walks on near-term quantum hardware. Physical Review A, 2021, 104, .	2.5	5
31	Comparing the architectures of the first programmable quantum computers. , 2017, , .		1
32	Bounds on the recurrence probability in periodically-driven quantum systems. Quantum - the Open Journal for Quantum Science, 0, 6, 682.	0.0	0