JiÅÃ- MinÃ¡Å

List of Publications by Year
in descending order

30 papers	1,161 citations	623734 14 h-index	501196 28 g-index
30 all docs	30 docs citations	30 times ranked	1095 citing authors

#	Article	IF	Citations
1	Kink Dynamics and Quantum Simulation of Supersymmetric Lattice Hamiltonians. Physical Review Letters, 2022, 128, 050504.	7.8	2
2	Disorder enhanced quantum many-body scars in Hilbert hypercubes. Physical Review B, 2021, 103, .	3.2	8
3	State selective cooling of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>SU</mml:mi><mml:mo>(</mml:mo><mml:mi>N</mml:mi> Fermi gases. Physical Review A, 2021, 104, .	2.5	
4	Supersymmetry and multicriticality in a ladder of constrained fermions. SciPost Physics, 2021, 11, .	4.9	2
5	Dissipative quantum state preparation and metastability in two-photon micromasers. Physical Review A, 2020, 101, .	2.5	6
6	Quantum many-body scars in transverse field Ising ladders and beyond. Physical Review B, 2020, 101, .	3.2	24
7	Open quantum dynamics induced by light scalar fields. Physical Review D, 2019, 100, .	4.7	13
8	Facilitation Dynamics and Localization Phenomena in Rydberg Lattice Gases with Position Disorder. Physical Review Letters, 2017, 118, 063606.	7.8	68
9	Topological properties of a dense atomic lattice gas. Physical Review A, 2017, 96, .	2.5	81
10	Bounding quantum-gravity-inspired decoherence using atom interferometry. Physical Review A, 2016, 94, .	2.5	8
11	Prospects of charged-oscillator quantum-state generation with Rydberg atoms. Physical Review A, 2016, 94, .	2.5	3
12	Crystalline structures in a one-dimensional two-component lattice gas with 1/râ€‰Î±interactions. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 033111.	2.3	6
13	Emergent Devilâ€™s Staircase without Particle-Hole Symmetry in Rydberg Quantum Gases with Competing Attractive and Repulsive Interactions. Physical Review Letters, 2015, 115, 203001.	7.8	23
14	Mimicking Dirac fields in curved spacetime with fermions in lattices with non-unitary tunneling amplitudes. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 165001.	2.1	10
15	From antiferromagnetic ordering to magnetic textures in the two-dimensional Fermi-Hubbard model with synthetic spin-orbit interactions. Physical Review B, 2013, 88, .	3.2	9
16	State-dependent atomic excitation by multiphoton pulses propagating along two spatial modes. Physical Review A, 2012, 86, .	2.5	8
17	Quantum memory with a single two-level atom in a half cavity. Physical Review A, 2012, 85, .	2.5	16
18	Quantum repeaters based on heralded qubit amplifiers. Physical Review A, 2012, 85, .	2.5	27

#	Article	IF	Citations
19	Efficient excitation of a two-level atom by a single photon in a propagating mode. Physical Review A, 2011, 83, .	2.5	92
20	Approaches for a quantum memory at telecommunication wavelengths. Physical Review A, 2011, 83, .	2.5	47
21	Precision requirements for spin-echo-based quantum memories. Physical Review A, 2011, 83, .	2.5	9
22	Precision requirements for spin-echo based quantum memories. , 2011, , .		0
23	Spin-wave storage using chirped control fields in atomic frequency comb-based quantum memory. Physical Review A, 2010, 82, .	2.5	23
24	Impossibility of faithfully storing single photons with the three-pulse photon echo. Physical Review A, 2010, 81, .	2.5	30
25	Telecommunication-Wavelength Solid-State Memory at the Single Photon Level. Physical Review Letters, 2010, 104, 080502.	7.8	162
26	Demonstration of Atomic Frequency Comb Memory for Light with Spin-Wave Storage. Physical Review Letters, 2010, 104, 040503.	7.8	207
27	Electric control of collective atomic coherence in an erbium-doped solid. New Journal of Physics, 2009, 11, 113019.	2.9	13
28	Phase-noise measurements in long-fiber interferometers for quantum-repeater applications. Physical Review A, 2008, 77, .	2.5	70
29	Long-distance entanglement distribution with single-photon sources. Physical Review A, 2007, 76, .	2.5	173
30	Solving correlation clustering with QAOA and a Rydberg qudit system: a full-stack approach. Quantum - the Open Journal for Quantum Science, 0, 6, 687.	0.0	20