

Jing Qian

List of Publications by Year in descending order

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papers

322
citations

840776

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35
all docs

35
docs citations

35
times ranked

225
citing authors

#	ARTICLE	IF	CITATIONS
1	Azimuthal modulation of electromagnetically induced grating using structured light. Scientific Reports, 2021, 11, 20721.	3.3	41
2	Unidirectional and controllable higher-order diffraction by a Rydberg electromagnetically induced grating. Physical Review A, 2019, 99, .	2.5	31
3	Phase diagram of Rydberg atoms in a nonequilibrium optical lattice. Physical Review A, 2012, 85, .	2.5	28
4	Phase separation in a two-species atomic Bose-Einstein condensate with an interspecies Feshbach resonance. Physical Review A, 2008, 78, .	2.5	24
5	Periodically driven facilitated high-efficiency dissipative entanglement with Rydberg atoms. Physical Review A, 2020, 101, .	2.5	23
6	Quantum phases of strongly interacting Rydberg atoms in triangular lattices. Physical Review A, 2013, 87, .	2.5	18
7	Ferris wheel patterning of Rydberg atoms using electromagnetically induced transparency with optical vortex fields. Optics Letters, 2021, 46, 4204.	3.3	15
8	Achieving ground-state polar molecular condensates by chainwise atom-molecule adiabatic passage. Physical Review A, 2010, 81, .	2.5	13
9	Adiabatic and high-fidelity quantum gates with hybrid Rydberg-Rydberg interactions. Optics Express, 2019, 27, 23080.	3.4	13
10	Strongly confined atomic localization by Rydberg coherent population trapping. Optics Letters, 2020, 45, 5440.	3.3	13
11	Dynamical phases in a one-dimensional chain of heterospecies Rydberg atoms with next-nearest-neighbor interactions. Physical Review A, 2015, 92, .	2.5	12
12	Ultraprecise Rydberg atomic localization using optical vortices. Optics Express, 2020, 28, 36936.	3.4	12
13	Optimal Model for Fewer-Qubit CNOT Gates With Rydberg Atoms. Physical Review Applied, 2022, 17, .	3.8	11
14	Anisotropic deformation of the Rydberg-blockade sphere in few-atom systems. Physical Review A, 2013, 88, .	2.5	9
15	Switchable dynamic Rydberg-dressed excitation via a cascaded double electromagnetically induced transparency. Physical Review A, 2019, 100, .	2.5	8
16	Resonance-enhanced collective effect in a triangle arrangement of Rydberg atoms with anisotropic interactions. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1749.	2.1	6
17	Cold atomic clouds and Bose-Einstein condensates passing through a Gaussian beam. Physical Review A, 2009, 80, .	2.5	5
18	Efficient production of polar molecular Bose-Einstein condensates via an all-optical R-type atom-molecule adiabatic passage. New Journal of Physics, 2010, 12, 033002.	2.9	5

#	ARTICLE	IF	CITATIONS
19	Chirped multiphoton adiabatic passage for a four-level ladder-type Rydberg excitation. Physical Review A, 2015, 91, .	2.5	5
20	Dissipation-sensitive multiphoton excitations of strongly interacting Rydberg atoms. Physical Review A, 2014, 90, .	2.5	4
21	Efficiency limitation for realizing an atom-molecule adiabatic transfer based on a chainwise system. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 2164.	2.1	4
22	Anomalous excitation enhancement with Rydberg-dressed atoms. Physical Review A, 2017, 96, .	2.5	4
23	Squeezing bandwidth controllable twin beam light and phase sensitive nonlinear interferometer based on atomic ensembles. Science Bulletin, 2012, 57, 1925-1930.	1.7	3
24	Superfluid-Mott-insulator transition of spin-1 bosons in optical resonators. Physical Review A, 2013, 88, .	2.5	3
25	Properties of collective Rabi oscillations with two Rydberg atoms. Chinese Physics B, 2019, 28, 013202.	1.4	3
26	Deterministic entanglement generation between a pair of atoms on different Rydberg states via chirped adiabatic passage. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 065007.	1.5	2
27	Robust quantum switch with Rydberg excitations. Scientific Reports, 2017, 7, 12952.	3.3	2
28	Elimination of collisional effects in an R-type atom-molecule adiabatic passage. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 155206.	1.5	1
29	Stability, adiabaticity and transfer efficiency in a nonlinear $\hat{\rho}$ -system. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 015301.	1.5	1
30	Revisiting the dynamics of Bose-Einstein condensates in a double well by deep learning with a hybrid network. Frontiers of Physics, 2022, 17, 1.	5.0	1
31	Robust switching of superposition-states via a coherent double stimulated Raman adiabatic passage. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 3014.	2.1	1
32	Interaction-enhanced transmission imaging with Rydberg atoms. Physical Review A, 2022, 105, .	2.5	1
33	Phase Separation in a two-Species Atomic Bose-Einstein Condensate with an Interspecies Feshbach Resonance. , 2009, , .		0
34	Deterministic facilitated excitation of the weakly driven atom in heteronuclear Rydberg atom pairs beyond antiblockade. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2545.	2.1	0
35	Ultraprecise Off-Axis Atom Localization With Hybrid Fields. Frontiers in Physics, 0, 10, .	2.1	0