

Bo Zhao

List of Publications by Year in descending order

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46
papers

3,224
citations

236925

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243625

44
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all docs

48
docs citations

48
times ranked

2208
citing authors

#	ARTICLE	IF	CITATIONS
1	Collective Dipole Oscillations of a Spin-Orbit Coupled Bose-Einstein Condensate. Physical Review Letters, 2012, 109, 115301.	7.8	471
2	Experimental demonstration of a BDCZ quantum repeater node. Nature, 2008, 454, 1098-1101.	27.8	372
3	A millisecond quantum memory for scalable quantum networks. Nature Physics, 2009, 5, 95-99.	16.7	217
4	Robust Creation of Entanglement between Remote Memory Qubits. Physical Review Letters, 2007, 98, 240502.	7.8	179
5	Experimental quantum teleportation of a two-qubit composite system. Nature Physics, 2006, 2, 678-682.	16.7	174
6	Memory-built-in quantum teleportation with photonic and atomic qubits. Nature Physics, 2008, 4, 103-107.	16.7	170
7	Efficient and long-lived quantum memory with cold atoms inside a ring cavity. Nature Physics, 2012, 8, 517-521.	16.7	170
8	Preparation and storage of frequency-uncorrelated entangled photons from cavity-enhanced spontaneous parametric downconversion. Nature Photonics, 2011, 5, 628-632.	31.4	159
9	Robust and efficient quantum repeaters with atomic ensembles and linear optics. Physical Review A, 2008, 77, .	2.5	135
10	Deterministic and Storable Single-Photon Source Based on a Quantum Memory. Physical Review Letters, 2006, 97, 173004.	7.8	127
11	Observation of magnetically tunable Feshbach resonances in ultracold ^{23}Na $^{40}\text{K} + ^{40}\text{K}$ collisions. Science, 2019, 363, 261-264.	12.6	112
12	Fault-tolerant quantum repeater with atomic ensembles and linear optics. Physical Review A, 2007, 76, .	2.5	108
13	Demonstration of a Stable Atom-Photon Entanglement Source for Quantum Repeaters. Physical Review Letters, 2007, 99, 180505.	7.8	108
14	Efficient quantum repeater based on deterministic Rydberg gates. Physical Review A, 2010, 81, .	2.5	71
15	Synchronized Independent Narrow-Band Single Photons and Efficient Generation of Photonic Entanglement. Physical Review Letters, 2007, 98, 180503.	7.8	56
16	Holographic Storage of Biphoton Entanglement. Physical Review Letters, 2012, 108, 210501.	7.8	51
17	Heralded Generation of an Atomic NOON State. Physical Review Letters, 2010, 104, 043601.	7.8	50
18	Controlled state-to-state atom-exchange reaction in an ultracold atom-dimer mixture. Nature Physics, 2017, 13, 699-703.	16.7	48

#	ARTICLE	IF	CITATIONS
19	Experimental nested purification for a linear optical quantum repeater. <i>Nature Photonics</i> , 2017, 11, 695-699.	31.4	46
20	Teleportation-based realization of an optical quantum two-qubit entangling gate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 20869-20874.	7.1	44
21	Driven-dissipative dynamics of a strongly interacting Rydberg gas. <i>Physical Review A</i> , 2012, 86, .	2.5	43
22	Experimental realization of a concatenated Greenberger-Horne-Zeilinger state for macroscopic quantum superpositions. <i>Nature Photonics</i> , 2014, 8, 364-368.	31.4	38
23	Atomic Rydberg Reservoirs for Polar Molecules. <i>Physical Review Letters</i> , 2012, 108, 193007.	7.8	29
24	Two-Hierarchy Entanglement Swapping for a Linear Optical Quantum Repeater. <i>Physical Review Letters</i> , 2017, 119, 170502.	7.8	26
25	Observation of interference between resonant and detuned strap in the adiabatic creation of ^{23}Na ^{40}K molecules. <i>Physical Review A</i> , 2022, 105, 043301.	7.8	25
26	Magnetic Feshbach resonances in collisions of ^{23}Na ^{40}K with ^{40}K . <i>New Journal of Physics</i> , 2021, 23, 115010.	2.9	25
27	Quantum Memory with Optically Trapped Atoms. <i>Physical Review Letters</i> , 2008, 101, 120501.	7.8	23
28	Operating Spin Echo in the Quantum Regime for an Atomic-Ensemble Quantum Memory. <i>Physical Review Letters</i> , 2015, 115, 133002.	7.8	23
29	Evidence for the association of triatomic molecules in ultracold ^{23}Na ^{40}K mixtures. <i>Nature</i> , 2022, 602, 229-233.	27.8	21
30	High-fidelity entanglement via molecular dissociation in integrated atom optics. <i>Physical Review A</i> , 2007, 75, .	2.5	18
31	Feshbach loss spectroscopy in an ultracold ^{23}Na ^{40}K mixture. <i>Physical Review A</i> , 2022, 105, 043301.	2.5	16
32	Resonant Control of Elastic Collisions between ^{23}Na ^{40}K molecules. <i>Physical Review A</i> , 2022, 105, 043301.	7.8	11
33	Quantum control of reactions and collisions at ultralow temperatures. <i>Chemical Society Reviews</i> , 2022, 51, 1685-1701.	38.1	9
34	Observation of a threshold behavior in an ultracold endothermic atom-exchange process involving Feshbach molecules. <i>Physical Review A</i> , 2019, 100, .	2.5	8
35	Theoretical analysis of the coupling between Feshbach states and hyperfine excited states in the creation of ^{23}Na ^{40}K molecule*. <i>Chinese Physics B</i> , 2020, 29, 023103.	1.4	8
36	Demonstration of interferometric atom-pattern engineering via Rabi oscillations. <i>Physical Review A</i> , 2016, 93, .	2.5	7

#	ARTICLE	IF	CITATIONS
37	Dynamics of quantum nonlocality for a hybrid entangled state in a thermal reservoir. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, 411-414.	1.4	6
38	Deterministic spin-wave interferometer based on the Rydberg blockade. Physical Review A, 2011, 83, .	2.5	6
39	Light pulse in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{b} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -type cold-atom gases. Physical Review A, 2010, 81, .	2.5	4
40	Production of an ultracold mixture of $^{23}\text{Na}^{40}\text{K}$ and ^{40}K . Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	5.1	3
41	EDGE STATE IN ATOMIC HALL EFFECT. Modern Physics Letters B, 2004, 18, 1127-1133.	1.9	2
42	Phase transitions and spin excitations of spin-1 bosons in optical lattice. European Physical Journal D, 2018, 72, 1.	1.3	2
43	Universality in the atom-exchange reaction involving Feshbach molecules. Physical Review A, 2019, 100, .	2.5	2
44	Magnetically tunable atom-exchange process involving ultracold weakly bound Feshbach molecules. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	5.1	1
45	Generation and Storage of Single Photons in Collectively Excited Atomic Ensembles. Experimental Methods in the Physical Sciences, 2013, 45, 541-562.	0.1	0
46	Quantum adiabatic doping for atomic Fermi-Hubbard quantum simulations. Physical Review A, 2021, 103, .	2.5	0