

Xiang-Fa Zhou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

981
citations

16
h-index

31
g-index

46
ext. papers

1,082
ext. citations

3.1
avg, IF

4.33
L-index

#	Paper	IF	Citations
44	Quench dynamics in 1D model with 3rd-nearest-neighbor hoppings*. <i>Chinese Physics B</i> , 2021 , 30, 026402.1.2		0
43	Bose-Einstein condensates in an atom-optomechanical system with effective global nonuniform interaction. <i>Physical Review A</i> , 2021 , 103,	2.6	2
42	Synthesizing arbitrary lattice models using a single degenerate cavity. <i>Physical Review A</i> , 2019 , 100,	2.6	1
41	Topological spinor vortex matter on spherical surface induced by non-Abelian spin-orbital-angular-momentum coupling. <i>New Journal of Physics</i> , 2019 , 21, 123051	2.9	0
40	Symmetry-enriched Bose-Einstein condensates in a spin-orbit-coupled bilayer system. <i>Physical Review A</i> , 2018 , 97,	2.6	3
39	Synthetic Landau Levels and Spinor Vortex Matter on a Haldane Spherical Surface with a Magnetic Monopole. <i>Physical Review Letters</i> , 2018 , 120, 130402	7.4	9
38	Dynamically Manipulating Topological Physics and Edge Modes in a Single Degenerate Optical Cavity. <i>Physical Review Letters</i> , 2017 , 118, 083603	7.4	33
37	Cavity-Assisted Single-Mode and Two-Mode Spin-Squeezed States via Phase-Locked Atom-Photon Coupling. <i>Physical Review Letters</i> , 2017 , 118, 083604	7.4	23
36	Peculiar supersolid phases induced by frustrated tunneling in the extended Bose-Hubbard model. <i>Physical Review B</i> , 2017 , 96,	3.3	4
35	Three-dimensional quaternionic condensations, Hopf invariants, and skyrmion lattices with synthetic spin-orbit coupling. <i>Physical Review A</i> , 2016 , 93,	2.6	16
34	Extended Bose-Hubbard model with pair hopping induced by a quadratically coupled optomechanical system. <i>Physical Review A</i> , 2016 , 94,	2.6	2
33	Anderson Localization in Degenerate Spin-Orbit Coupled Fermi Gas with Disorder. <i>Scientific Reports</i> , 2016 , 6, 22623	4.9	2
32	Exotic superfluid of trapped Fermi gases with spin-orbit coupling in dimensional crossover. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016 , 49, 125306	1.3	
31	Two-component Bose-Hubbard model in an array of cavity polaritons. <i>Physical Review A</i> , 2015 , 91,	2.6	2
30	In-plane gradient-magnetic-field-induced vortex lattices in spin-orbit-coupled Bose-Einstein condensations. <i>Physical Review A</i> , 2015 , 91,	2.6	5
29	Dark state in a nonlinear optomechanical system with quadratic coupling. <i>Physical Review A</i> , 2015 , 92,	2.6	6
28	Two-component polariton condensate in an optical microcavity. <i>Physical Review A</i> , 2014 , 89,	2.6	5

27	Dynamical spin squeezing via a higher-order Trotter-Suzuki approximation. <i>Physical Review A</i> , 2014 , 90,	2.6	15
26	Unconventional states of bosons with the synthetic spin-orbit coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013 , 46, 134001	1.3	137
25	Exotic pairing states in a Fermi gas with three-dimensional spin-orbit coupling. <i>Physical Review A</i> , 2013 , 87,	2.6	26
24	Two- and three-dimensional topological insulators with isotropic and parity-breaking Landau levels. <i>Physical Review B</i> , 2012 , 85,	3.3	38
23	Generalized Rabi model in quantum-information processing including the A ² term. <i>Physical Review A</i> , 2012 , 86,	2.6	11
22	Magnetic phases of bosons with synthetic spin-orbit coupling in optical lattices. <i>Physical Review A</i> , 2012 , 85,	2.6	80
21	Bose-Einstein condensates in a ring-shaped trap with a nonlinear double-well potential. <i>Physical Review A</i> , 2012 , 85,	2.6	24
20	Overlaying optical lattices for simulation of complex frustrated antiferromagnets. <i>Physical Review A</i> , 2012 , 85,	2.6	4
19	Vortex structures of rotating spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2011 , 84,	2.6	98
18	Unconventional Bose-Einstein Condensations from Spin-Orbit Coupling. <i>Chinese Physics Letters</i> , 2011 , 28, 097102	1.8	234
17	Quantum phase transition of Bose-Einstein condensates on a nonlinear ring lattice. <i>Physical Review A</i> , 2011 , 83,	2.6	8
16	Adiabatic evolution in nonlinear systems with degeneracy. <i>Physical Review A</i> , 2010 , 81,	2.6	4
15	Frustrated tunneling of ultracold atoms in a state-dependent optical lattice. <i>Physical Review A</i> , 2010 , 81,	2.6	3
14	Quantum simulation of Heisenberg spin chains with next-nearest-neighbor interactions in coupled cavities. <i>Physical Review A</i> , 2010 , 81,	2.6	36
13	Negative entanglement measure for bipartite separable mixed states. <i>Physical Review A</i> , 2010 , 82,	2.6	1
12	Arbitrary quantum superposition state for three-level system using oscillating dark states. <i>Optics Communications</i> , 2009 , 282, 1167-1170	2	
11	Pair tunneling of bosonic atoms in an optical lattice. <i>Physical Review A</i> , 2009 , 80,	2.6	20
10	Efficient measurement-based quantum computation with cluster states in quantum-bit fixed systems. <i>Physical Review A</i> , 2008 , 77,	2.6	1

9	Bipartite entanglement purification with neutral atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6325-6333	2.3	1
8	Qubit disentanglement in local squeezed reservoirs. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 363, 263-270	2.3	10
7	Two kinds of quantum adiabatic approximation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007 , 368, 18-24	2.3	9
6	Unambiguous discrimination of mixed states: A description based on system-ancilla coupling. <i>Physical Review A</i> , 2007 , 75,	2.6	16
5	Unitary transformations can be distinguished locally. <i>Physical Review Letters</i> , 2007 , 99, 170401	7.4	20
4	Physical accessible transformations on a finite number of quantum states. <i>Physical Review A</i> , 2007 , 75,	2.6	8
3	State estimation from a pair of conjugate qudits. <i>Physical Review A</i> , 2006 , 74,	2.6	3
2	Experimental entanglement distillation of two-qubit mixed states under local operations. <i>Physical Review Letters</i> , 2006 , 96, 220505	7.4	30
1	Nonlocal gate of quantum network via cavity quantum electrodynamics. <i>Physical Review A</i> , 2005 , 71,	2.6	29