

# Xiang-Fa Zhou

## List of Publications by Year in descending order

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45  
papers

1,151  
citations

471477

17  
h-index

377849

34  
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46  
all docs

46  
docs citations

46  
times ranked

894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unconventional Bose-Einstein Condensations from Spin-Orbit Coupling. Chinese Physics Letters, 2011, 28, 097102.	3.3	261
2	Unconventional states of bosons with the synthetic spin-orbit coupling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 134001.	1.5	155
3	Vortex structures of rotating spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2011, 84, .	2.5	123
4	Magnetic phases of bosons with synthetic spin-orbit coupling in optical lattices. Physical Review A, 2012, 85, .	2.5	89
5	Dynamically Manipulating Topological Physics and Edge Modes in a Single Degenerate Optical Cavity. Physical Review Letters, 2017, 118, 083603.	7.8	48
6	Quantum simulation of Heisenberg spin chains with next-nearest-neighbor interactions in coupled cavities. Physical Review A, 2010, 81, .	2.5	40
7	Two- and three-dimensional topological insulators with isotropic and parity-breaking Landau levels. Physical Review B, 2012, 85, .	3.2	40
8	Experimental Entanglement Distillation of Two-Qubit Mixed States under Local Operations. Physical Review Letters, 2006, 96, 220505.	7.8	39
9	Cavity-Assisted Single-Mode and Two-Mode Spin-Squeezed States via Phase-Locked Atom-Photon Coupling. Physical Review Letters, 2017, 118, 083604.	7.8	34
10	Nonlocal gate of quantum network via cavity quantum electrodynamics. Physical Review A, 2005, 71, .	2.5	33
11	Exotic pairing states in a Fermi gas with three-dimensional spin-orbit coupling. Physical Review A, 2013, 87, .	2.5	28
12	Bose-Einstein condensates in a ring-shaped trap with a nonlinear double-well potential. Physical Review A, 2012, 85, .	2.5	25
13	Pair tunneling of bosonic atoms in an optical lattice. Physical Review A, 2009, 80, .	2.5	24
14	Unitary Transformations Can Be Distinguished Locally. Physical Review Letters, 2007, 99, 170401.	7.8	23
15	Dynamical spin squeezing via a higher-order Trotter-Suzuki approximation. Physical Review A, 2014, 90, .	2.5	19
16	Three-dimensional quaternionic condensations, Hopf invariants, and skyrmion lattices with synthetic spin-orbit coupling. Physical Review A, 2016, 93, .	2.5	18
17	Unambiguous discrimination of mixed states: A description based on system-ancilla coupling. Physical Review A, 2007, 75, .	2.5	17
18	Physical accessible transformations on a finite number of quantum states. Physical Review A, 2007, 75, .	2.5	11

#	ARTICLE	IF	CITATIONS
19	Generalized Rabi model in quantum-information processing including the $\langle A \hat{f} - \langle A \rangle \hat{f} \rangle^2$ term. Physical Review A, 2012, 86, .	2.5	11
20	Synthetic Landau Levels and Spinor Vortex Matter on a Haldane Spherical Surface with a Magnetic Monopole. Physical Review Letters, 2018, 120, 130402.	7.8	11
21	Qubit disentanglement in local squeezed reservoirs. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 363, 263-270.	2.1	10
22	Two kinds of quantum adiabatic approximation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 18-24.	2.1	10
23	Quantum phase transition of Bose-Einstein condensates on a nonlinear ring lattice. Physical Review A, 2011, 83, .	2.5	9
24	Dark state in a nonlinear optomechanical system with quadratic coupling. Physical Review A, 2015, 92, .	2.5	8
25	In-plane gradient-magnetic-field-induced vortex lattices in spin-orbit-coupled Bose-Einstein condensations. Physical Review A, 2015, 91, .	2.5	7
26	Peculiar supersolid phases induced by frustrated tunneling in the extended Bose-Hubbard model. Physical Review B, 2017, 96, .	3.2	7
27	Two-component polariton condensate in an optical microcavity. Physical Review A, 2014, 89, .	2.5	5
28	Adiabatic evolution in nonlinear systems with degeneracy. Physical Review A, 2010, 81, .	2.5	4
29	Frustrated tunneling of ultracold atoms in a state-dependent optical lattice. Physical Review A, 2010, 81, .	2.5	4
30	Overlaying optical lattices for simulation of complex frustrated antiferromagnets. Physical Review A, 2012, 85, .	2.5	4
31	Symmetry-enriched Bose-Einstein condensates in a spin-orbit-coupled bilayer system. Physical Review A, 2018, 97, .	2.5	4
32	Synthesizing arbitrary lattice models using a single degenerate cavity. Physical Review A, 2019, 100, .	2.5	4
33	Bose-Einstein condensates in an atom-optomechanical system with effective global nonuniform interaction. Physical Review A, 2021, 103, .	2.5	4
34	State estimation from a pair of conjugate qudits. Physical Review A, 2006, 74, .	2.5	3
35	Extended Bose-Hubbard model with pair hopping induced by a quadratically coupled optomechanical system. Physical Review A, 2016, 94, .	2.5	3
36	Anderson Localization in Degenerate Spin-Orbit Coupled Fermi Gas with Disorder. Scientific Reports, 2016, 6, 22623.	3.3	3

#	ARTICLE	IF	CITATIONS
37	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	3
38	Two-component Bose-Hubbard model in an array of cavity polaritons. <i>Physical Review A</i> , 2015, 91, .	2.5	2
39	Bipartite entanglement purification with neutral atoms. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 6325-6333.	2.1	1
40	Efficient measurement-based quantum computation with cluster states in quantum-bit fixed systems. <i>Physical Review A</i> , 2008, 77, .	2.5	1
41	Arbitrary quantum superposition state for three-level system using oscillating dark states. <i>Optics Communications</i> , 2009, 282, 1167-1170.	2.1	1
42	Negative entanglement measure for bipartite separable mixed states. <i>Physical Review A</i> , 2010, 82, .	2.5	1
43	Bose-Einstein condensate in Bloch bands with an off-diagonal periodic potential. <i>Physical Review A</i> , 2019, 100, .	2.5	1
44	Quench dynamics in 1D model with 3rd-nearest-neighbor hoppings*. <i>Chinese Physics B</i> , 2021, 30, 026402.	1.4	1
45	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.	1.5	0