

# Xiang-Fa Zhou

## List of Publications by Citations

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44  
papers

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46  
ext. papers

1,082  
ext. citations

3.1  
avg, IF

4.33  
L-index

#	Paper	IF	Citations
44	Unconventional Bose-Einstein Condensations from Spin-Orbit Coupling. <i>Chinese Physics Letters</i> , <b>2011</b> , 28, 097102	1.8	234
43	Unconventional states of bosons with the synthetic spin-orbit coupling. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2013</b> , 46, 134001	1.3	137
42	Vortex structures of rotating spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	98
41	Magnetic phases of bosons with synthetic spin-orbit coupling in optical lattices. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	80
40	Two- and three-dimensional topological insulators with isotropic and parity-breaking Landau levels. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	38
39	Quantum simulation of Heisenberg spin chains with next-nearest-neighbor interactions in coupled cavities. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	36
38	Dynamically Manipulating Topological Physics and Edge Modes in a Single Degenerate Optical Cavity. <i>Physical Review Letters</i> , <b>2017</b> , 118, 083603	7.4	33
37	Experimental entanglement distillation of two-qubit mixed states under local operations. <i>Physical Review Letters</i> , <b>2006</b> , 96, 220505	7.4	30
36	Nonlocal gate of quantum network via cavity quantum electrodynamics. <i>Physical Review A</i> , <b>2005</b> , 71,	2.6	29
35	Exotic pairing states in a Fermi gas with three-dimensional spin-orbit coupling. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	26
34	Bose-Einstein condensates in a ring-shaped trap with a nonlinear double-well potential. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	24
33	Cavity-Assisted Single-Mode and Two-Mode Spin-Squeezed States via Phase-Locked Atom-Photon Coupling. <i>Physical Review Letters</i> , <b>2017</b> , 118, 083604	7.4	23
32	Pair tunneling of bosonic atoms in an optical lattice. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	20
31	Unitary transformations can be distinguished locally. <i>Physical Review Letters</i> , <b>2007</b> , 99, 170401	7.4	20
30	Three-dimensional quaternionic condensations, Hopf invariants, and skyrmion lattices with synthetic spin-orbit coupling. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	16
29	Unambiguous discrimination of mixed states: A description based on system-ancilla coupling. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	16
28	Dynamical spin squeezing via a higher-order Trotter-Suzuki approximation. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	15

27	Generalized Rabi model in quantum-information processing including the A 2 term. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	11
26	Qubit disentanglement in local squeezed reservoirs. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 363, 263-270	2.3	10
25	Synthetic Landau Levels and Spinor Vortex Matter on a Haldane Spherical Surface with a Magnetic Monopole. <i>Physical Review Letters</i> , <b>2018</b> , 120, 130402	7.4	9
24	Two kinds of quantum adiabatic approximation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2007</b> , 368, 18-24	2.3	9
23	Quantum phase transition of Bose-Einstein condensates on a nonlinear ring lattice. <i>Physical Review A</i> , <b>2011</b> , 83,	2.6	8
22	Physical accessible transformations on a finite number of quantum states. <i>Physical Review A</i> , <b>2007</b> , 75,	2.6	8
21	Dark state in a nonlinear optomechanical system with quadratic coupling. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	6
20	In-plane gradient-magnetic-field-induced vortex lattices in spin-orbit-coupled Bose-Einstein condensations. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	5
19	Two-component polariton condensate in an optical microcavity. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	5
18	Peculiar supersolid phases induced by frustrated tunneling in the extended Bose-Hubbard model. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	4
17	Adiabatic evolution in nonlinear systems with degeneracy. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	4
16	Overlaying optical lattices for simulation of complex frustrated antiferromagnets. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	4
15	Symmetry-enriched Bose-Einstein condensates in a spin-orbit-coupled bilayer system. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	3
14	Frustrated tunneling of ultracold atoms in a state-dependent optical lattice. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	3
13	State estimation from a pair of conjugate qudits. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	3
12	Two-component Bose-Hubbard model in an array of cavity polaritons. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	2
11	Extended Bose-Hubbard model with pair hopping induced by a quadratically coupled optomechanical system. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	2
10	Anderson Localization in Degenerate Spin-Orbit Coupled Fermi Gas with Disorder. <i>Scientific Reports</i> , <b>2016</b> , 6, 22623	4.9	2

- 9 Bose-Einstein condensates in an atom-optomechanical system with effective global nonuniform interaction. *Physical Review A*, **2021**, 103, 2.6 2
- 8 Synthesizing arbitrary lattice models using a single degenerate cavity. *Physical Review A*, **2019**, 100, 2.6 1
- 7 Negative entanglement measure for bipartite separable mixed states. *Physical Review A*, **2010**, 82, 2.6 1
- 6 Efficient measurement-based quantum computation with cluster states in quantum-bit fixed systems. *Physical Review A*, **2008**, 77, 2.6 1
- 5 Bipartite entanglement purification with neutral atoms. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2008**, 372, 6325-6333 2.3 1
- 4 Topological spinor vortex matter on spherical surface induced by non-Abelian spin-orbital-angular-momentum coupling. *New Journal of Physics*, **2019**, 21, 123051 2.9 0
- 3 Quench dynamics in 1D model with 3rd-nearest-neighbor hoppings\*. *Chinese Physics B*, **2021**, 30, 026402 1.2 0
- 2 Arbitrary quantum superposition state for three-level system using oscillating dark states. *Optics Communications*, **2009**, 282, 1167-1170 2
- 1 Exotic superfluid of trapped Fermi gases with spin-orbit coupling in dimensional crossover. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2016**, 49, 125306 1.3