

Yi Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,801
citations

279487

23
h-index

168136

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60
all docs

60
docs citations

60
times ranked

3447
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergence of high-temperature superconductivity at the interface of two Mott insulators. Physical Review B, 2022, 105, .	1.1	6
2	Matrix product states for Hartree-Fock-Bogoliubov wave functions. Physical Review B, 2022, 105, .	1.1	7
3	Inhomogeneous superconducting states in two weakly linked superconducting ultrathin films. Physical Review B, 2022, 105, .	1.1	2
4	Unveiling a critical stripy state in the triangular-lattice SU(4) spin-orbital model. Science Bulletin, 2022, 67, 918-923.	4.3	9
5	Material Search for Quantum Spin Liquids on the Simplest Frustrated Lattice. Chinese Physics Letters, 2022, 39, 050102.	1.3	1
6	Two-dimensional superconductivity at the surfaces of KTaO ₃ gated with ionic liquid. Science Advances, 2022, 8, .	4.7	19
7	Two-Dimensional Superconductivity at the $\text{LaAlO}_3/\text{KTaO}_3$ interface. Science, 2021, 372, 721-724.	6.0	82
8	Electric field control of superconductivity at the $\text{LaAlO}_3/\text{KTaO}_3$ (111) interface. Science, 2021, 372, 721-724.	6.0	82
9	Density matrix renormalization group boosted by Gutzwiller projected wave functions. Physical Review B, 2021, 104, .	1.1	12
10	Spin-triplet superconductivity in K_2CrAs_3 . Science Advances, 2021, 7, eabl4432.	4.7	34
11	Exact solution to a class of generalized Kitaev spin-1/2 models in arbitrary dimensions. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	5
12	Classical and quantum order in hyperkagome antiferromagnets. Physical Review B, 2020, 101, .	1.1	8
13	Efficient tensor network representation for Gutzwiller projected states of paired fermions. Physical Review B, 2020, 101, .	1.1	16
14	Hidden SU(2) symmetries, the symmetry hierarchy, and the emergent eightfold way in spin-1 quantum magnets. Physical Review B, 2019, 100, .	1.1	0
15	Electron-nuclear hyperfine coupling in quantum kagome antiferromagnets from first-principles calculation and a reflection of the defect effect. Science Bulletin, 2019, 64, 1584-1591.	4.3	0
16	Exotic Cooper pairing in multiorbital models of Sr_2IrO_6 . Physical Review B, 2019, 100, .	1.1	0
17	Non-Kitaev spin liquids in Kitaev materials. Physical Review B, 2019, 99, .	1.1	8
18	Pristine Mott insulator from an exactly solvable spin-1/2 Kitaev model. Physical Review B, 2019, 99, .	1.1	0

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19	Probe Majorana zero modes through their spins. National Science Review, 2019, 6, 197-199.	4.6	1
20	Pressure induced superconductivity bordering a charge-density-wave state in NbTe ₄ with strong spin-orbit coupling. Scientific Reports, 2018, 8, 6298.	1.6	21
21	Majorana zero modes and long range edge correlation in interacting Kitaev chains: analytic solutions and density-matrix-renormalization-group study. Scientific Reports, 2018, 8, 488.	1.6	15
22	Selective equal spin Andreev reflection at vortex core center in magnetic semiconductor-superconductor heterostructure. Scientific Reports, 2018, 8, 7853.	1.6	4
23	Non-Abelian $S=1$ chiral spin liquid on the kagome lattice. Physical Review B, 2018, 97, .	1.1	18
24	Theory for superconductivity in alkali chromium arsenides A ₂ Cr ₃ As ₃ (A = K, Rb, Cs). Science Bulletin, 2017, 62, 208-211.	4.3	40
25	Topological charge-density and spin-density waves in InAs/GaSb quantum wells under an in-plane magnetic field. Physical Review B, 2017, 96, .	1.1	7
26	Exact Solution for the Interacting Kitaev Chain at the Symmetric Point. Physical Review Letters, 2017, 118, 267701.	2.9	53
27	Quantum spin liquid states. Reviews of Modern Physics, 2017, 89, .	16.4	904
28	Theory of spin-selective Andreev reflection in the vortex core of a topological superconductor. Physical Review B, 2016, 94, .	1.1	47
29	Designing an artificial Lieb lattice on a metal surface. Physical Review B, 2016, 94, .	1.1	39
30	Electric control of inverted gap and hybridization gap in type-II InAs/GaSb quantum wells. Physical Review B, 2016, 94, .	1.1	11
31	Effect of in-plane magnetic field and applied strain in quantum spin Hall systems: Application to InAs/GaSb quantum wells. Physical Review B, 2016, 94, .	1.1	21
32	Helicity-protected ultrahigh mobility Weyl fermions in NbP. Physical Review B, 2016, 93, .	1.1	168
33	Majorana Zero Mode Detected with Spin Selective Andreev Reflection in the Vortex of a Topological Superconductor. Physical Review Letters, 2016, 116, 257003.	2.9	494
34	Instability of three-band Tomonaga-Luttinger liquid: Renormalization group analysis and possible application to $K=2$ Cr ₃ Physical Review B, 2016, 94, .	1.1	19
35	Magnetic impurity in a Weyl semimetal. Physical Review B, 2015, 92, .	1.1	32
36	Gutzwiller approach for elementary excitations in $S=1$ antiferromagnetic chains. New Journal of Physics, 2014, 16, 083031.	1.2	8

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37	Localized in-gap states and quantum spin Hall effect in Si-doped InAs/GaSb quantum wells. Physical Review B, 2014, 89, .	1.1	9
38	Electrically controllable magnetic order in the bilayer Hubbard model on honeycomb lattice: A determinant quantum Monte Carlo study. Physical Review B, 2014, 90, .	1.1	4
39	Possible half-metallic phase in bilayer graphene: Calculations based on mean-field theory applied to a two-layer Hubbard model. Physical Review B, 2013, 88, .	1.1	13
40	Spin liquid states in the vicinity of a metal-insulator transition. Physical Review B, 2013, 88, .	1.1	15
41	Edge superconducting correlation in the attractive-UKane-Mele-Hubbard model. Physical Review B, 2012, 86, .	1.1	6
42	Gutzwiller projected wave functions in the fermionic theory of $S=1$ spin chains. Physical Review B, 2012, 85, .	1.1	23
43	Stacking order, interaction, and weak surface magnetism in layered graphene sheets. Physical Review B, 2012, 86, .	1.1	25
44	Left up right down. Nature Physics, 2012, 8, 448-449.	6.5	1
45	Theory for superconductivity in $(\text{Ti,K})\text{Fe}_x\text{Se}_2$ as a doped Mott insulator. Europhysics Letters, 2011, 95, 17003.	0.7	60
46	Spin Phonon Interaction and Ultrasonic Attenuation in Quantum Spin Liquids. Physical Review Letters, 2011, 106, 056402.	2.9	27
47	Self-doping effect and successive magnetic transitions in superconducting Sr_2VO_4 . Physical Review B, 2010, 82, .	1.1	46
48	Possibility of $S=1$ spin liquids with fermionic spinons on triangular lattices. Physical Review B, 2010, 81, .	1.1	31
49	Physical Review B, 2010, 82, .	1.1	29
50	Strong Coupling Theory for Superconducting Iron Pnictides. Physical Review Letters, 2009, 102, 047006.	2.9	80
51	Topological glass states. Europhysics Letters, 2009, 86, 10003.	0.7	2
52	Fermi-edge problem in the presence of AC electric field. Europhysics Letters, 2009, 86, 17004.	0.7	0
53	Theory for superconductivity in iron pnictides at large Coulomb U limit. Frontiers of Physics in China, 2009, 4, 447-454.	1.0	0
54	Even Parity, Orbital Singlet, and Spin Triplet Pairing for Superconducting LaFeAsO . Physical Review Letters, 2008, 101, 057008.	2.9	100

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55	Symmetry of superconducting states with two orbitals on a tetragonal lattice: Application to LaFeAsO . Physical Review B, 2008, 78, 11661-11666.	1.1	30
56	$\text{Na}_4\text{Ir}_8\text{O}_8$ as a 3D Spin Liquid with Fermionic Spinons. Physical Review Letters, 2008, 101, 197201.	2.9	80
57	Wess-Zumino-Berry phase interference in spin tunnelling at excited levels with a magnetic field. Journal of Physics Condensed Matter, 2000, 12, 7781-7794.	0.7	0
58	Phase interference of spin tunneling in an arbitrarily directed magnetic field. Physical Review B, 2000, 62, 11661-11666.	1.1	6
59	U(1) symmetry in the current algebra and N-fermionic massless Thirring model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1999, 260, 468-474.	0.9	0
60	The compound cavity optical parametric oscillator: theory and experiment. IEEE Journal of Quantum Electronics, 1998, 34, 439-446.	1.0	6