

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

53
g-index

60
all docs

60
docs citations

60
times ranked

3447
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum spin liquid states. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	904
2	Majorana Zero Mode Detected with Spin Selective Andreev Reflection in the Vortex of a Topological Superconductor. <i>Physical Review Letters</i> , 2016, 116, 257003.	2.9	494
3	Helicity-protected ultrahigh mobility Weyl fermions in NbP. <i>Physical Review B</i> , 2016, 93, .	1.1	168
4	Even Parity, Orbital Singlet, and Spin Triplet Pairing for Superconducting LaFeAsO . <i>Physical Review Letters</i> , 2008, 101, 057008.	2.9	46
5	Electric field control of superconductivity at the $\text{LaAlO}_3/\text{KTaO}_3$ (111) interface. <i>Science</i> , 2021, 372, 721-724.	6.0	82
6	NaO_8 as a 3D Spin Liquid with Fermionic Spinons. <i>Physical Review Letters</i> , 2008, 101, 197201.	2.9	80
7	Strong Coupling Theory for Superconducting Iron Pnictides. <i>Physical Review Letters</i> , 2009, 102, 047006.	2.9	80
8	Theory for superconductivity in $(\text{Ti,K})\text{Fe}_x\text{Se}_2$ as a doped Mott insulator. <i>Europhysics Letters</i> , 2011, 95, 17003.	0.7	60
9	Two-Dimensional Superconductivity at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review Letters</i> , 2008, 101, 197201.	2.9	80
10	Exact Solution for the Interacting Kitaev Chain at the Symmetric Point. <i>Physical Review Letters</i> , 2017, 118, 267701.	2.9	53
11	Theory of spin-selective Andreev reflection in the vortex core of a topological superconductor. <i>Physical Review B</i> , 2016, 94, .	1.1	47
12	Self-doping effect and successive magnetic transitions in superconducting Sr_2VO_4 . <i>Physical Review B</i> , 2010, 82, .	1.1	46
13	Theory for superconductivity in alkali chromium arsenides $\text{A}_2\text{Cr}_3\text{As}_3$ (A = K, Rb, Cs). <i>Science Bulletin</i> , 2017, 62, 208-211.	4.3	40
14	Designing an artificial Lieb lattice on a metal surface. <i>Physical Review B</i> , 2016, 94, .	1.1	39
15	Spin-triplet superconductivity in $\text{K}_2\text{Cr}_3\text{As}_3$. <i>Science Advances</i> , 2021, 7, eabl4432.	4.7	34
16	Magnetic impurity in a Weyl semimetal. <i>Physical Review B</i> , 2015, 92, .	1.1	32
17	Possibility of spin liquids with fermionic spinons on triangular lattices. <i>Physical Review B</i> , 2010, 81, .	1.1	31
18	Symmetry of superconducting states with two orbitals on a tetragonal lattice: Application to LaFeAsO . <i>Physical Review B</i> , 2008, 78, .	1.1	30

#	ARTICLE	IF	CITATIONS
19	Exotic Cooper pairing in multiorbital models of $S=1$ spin chains. Physical Review B, 2019, 100, .	2.1	30
20	Fermionic theory for quantum antiferromagnets with spin $S=1$. Physical Review B, 2010, 82, .	1.1	29
21	Spinon Phonon Interaction and Ultrasonic Attenuation in Quantum Spin Liquids. Physical Review Letters, 2011, 106, 056402.	2.9	27
22	Stacking order, interaction, and weak surface magnetism in layered graphene sheets. Physical Review B, 2012, 86, .	1.1	25
23	Gutzwiller projected wave functions in the fermionic theory of $S=1$ spin chains. Physical Review B, 2012, 85, .	1.1	23
24	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
25	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
26	Instability of three-band Tomonaga-Luttinger liquid: Renormalization group analysis and possible application to $S=1$ spin chains. Physical Review B, 2016, 94, .	1.1	19
27	Two-dimensional superconductivity at the surfaces of KTaO ₃ gated with ionic liquid. Science Advances, 2022, 8, .	4.7	19
28	Efficient tensor network representation for Gutzwiller projected states of paired fermions. Physical Review B, 2020, 101, .	1.1	16
29	Spin liquid states in the vicinity of a metal-insulator transition. Physical Review B, 2013, 88, .	1.1	15
30	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
31	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
32	Non-Abelian $S=1$ chiral spin liquid on the kagome lattice. Physical Review B, 2018, 97, .	1.1	13
33	Density matrix renormalization group boosted by Gutzwiller projected wave functions. Physical Review B, 2021, 104, .	1.1	12
34	Electric control of inverted gap and hybridization gap in type-II InAs/GaSb quantum wells. Physical Review B, 2016, 94, .	1.1	11
35	Localized in-gap states and quantum spin Hall effect in Si-doped InAs/GaSb quantum wells. Physical Review B, 2014, 89, .	1.1	9
36	Unveiling a critical stripy state in the triangular-lattice SU(4) spin-orbital model. Science Bulletin, 2022, 67, 918-923.	4.3	9

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37	Gutzwiller approach for elementary excitations in $S=1$ antiferromagnetic chains. New Journal of Physics, 2014, 16, 083031.	1.2	8
38	Non-Kitaev spin liquids in Kitaev materials. Physical Review B, 2019, 99, .	1.1	8
39	Classical and quantum order in hyperkagome antiferromagnets. Physical Review B, 2020, 101, .	1.1	8
40	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
41	Matrix product states for Hartree-Fock-Bogoliubov wave functions. Physical Review B, 2022, 105, .	1.1	7
42	The compound cavity optical parametric oscillator: theory and experiment. IEEE Journal of Quantum Electronics, 1998, 34, 439-446.	1.0	6
43	Phase interference of spin tunneling in an arbitrarily directed magnetic field. Physical Review B, 2000, 62, 11661-11666.	1.1	6
44	Edge superconducting correlation in the attractive-UKane-Mele-Hubbard model. Physical Review B, 2012, 86, .	1.1	6
45	Emergence of high-temperature superconductivity at the interface of two Mott insulators. Physical Review B, 2022, 105, .	1.1	6
46	Pristine Mott insulator from an exactly solvable spin- $\frac{1}{2}$ Kitaev model. Physical Review B, 2019, 99, .	1.1	6
47	Exact solution to a class of generalized Kitaev spin- $\frac{1}{2}$ models in arbitrary dimensions. Science China: Physics, Mechanics and Astronomy, 2020, 63, 1.	2.0	5
48	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
49	Selective equal spin Andreev reflection at vortex core center in magnetic semiconductor-superconductor heterostructure. Scientific Reports, 2018, 8, 7853.	1.6	4
50	Topological glass states. Europhysics Letters, 2009, 86, 10003.	0.7	2
51	Inhomogeneous superconducting states in two weakly linked superconducting ultrathin films. Physical Review B, 2022, 105, .	1.1	2
52	Left up right down. Nature Physics, 2012, 8, 448-449.	6.5	1
53	Probe Majorana zero modes through their spins. National Science Review, 2019, 6, 197-199.	4.6	1
54	Material Search for Quantum Spin Liquids on the Simplest Frustrated Lattice. Chinese Physics Letters, 2022, 39, 050102.	1.3	1

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55	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
56	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
57	Fermi-edge problem in the presence of AC electric field. Europhysics Letters, 2009, 86, 17004.	0.7	0
58	Theory for superconductivity in iron pnictides at large Coulomb U limit. Frontiers of Physics in China, 2009, 4, 447-454.	1.0	0
59	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
60	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