

Erhai Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

1,772
citations

257450

24
h-index

265206

42
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63
all docs

63
docs citations

63
times ranked

1467
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological states in a ladder-like optical lattice containing ultracold atoms in higher orbital bands. Nature Communications, 2013, 4, 1523.	12.8	138
2	BCS-BEC Crossover on the Two-Dimensional Honeycomb Lattice. Physical Review Letters, 2006, 97, 230404.	7.8	118
3	Counter-propagating Edge Modes and Topological Phases of a Kicked Quantum Hall System. Physical Review Letters, 2014, 112, 026805.	7.8	90
4	Dynamical Singularities of Floquet Higher-Order Topological Insulators. Physical Review Letters, 2020, 124, 057001.	7.8	90
5	Orbital Order in Mott Insulators of Spinless p -Band Fermions. Physical Review Letters, 2008, 100, 160403.	7.8	80
6	Nonequilibrium superconductivity near spin-active interfaces. Physical Review B, 2004, 70, .	3.2	77
7	Knots and Non-Hermitian Bloch Bands. Physical Review Letters, 2021, 126, 010401.	7.8	77
8	Theory of quasi-one-dimensional imbalanced Fermi gases. Physical Review A, 2008, 78, .	2.5	74
9	Topological Insulator Bi ₂ Se ₃ Nanowire High Performance Field-Effect Transistors. Scientific Reports, 2013, 3, .	3.3	73
10	Chern numbers hiding in time-of-flight images. Physical Review A, 2011, 84, .	2.5	61
11	Topological circuits of inductors and capacitors. Annals of Physics, 2018, 399, 289-313.	2.8	55
12	Phase Modulated Thermal Conductance of Josephson Weak Links. Physical Review Letters, 2003, 91, 077003.	7.8	53
13	Self-consistent slave rotor mean-field theory for strongly correlated systems. Physical Review B, 2007, 76, .	3.2	53
14	Heat transport through Josephson point contacts. Physical Review B, 2004, 69, .	3.2	49
15	Floquet edge states in a harmonically driven integer quantum Hall system. Physical Review B, 2014, 90, .	3.2	44
16	Topological Invariants for Quantum Quench Dynamics from Unitary Evolution. Physical Review Letters, 2020, 124, 160402.	7.8	44
17	Analytic Thermodynamics and Thermometry of Gaudin-Yang Fermi Gases. Physical Review Letters, 2009, 103, 140404.	7.8	43
18	Bond Order Solid of Two-Dimensional Dipolar Fermions. Physical Review Letters, 2012, 108, 145301.	7.8	43

#	ARTICLE	IF	CITATIONS
19	Theory of nonequilibrium spin transport and spin-transfer torque in superconducting-ferromagnetic nanostructures. <i>Physical Review B</i> , 2008, 78, .	3.2	38
20	Current-phase relation for Josephson effect through helical metal. <i>Physical Review B</i> , 2012, 86, .	3.2	38
21	Liquid crystal phases of ultracold dipolar fermions on a lattice. <i>Physical Review B</i> , 2010, 81, .	3.2	35
22	Microscopic simulation of superconductor/topological insulator proximity structures. <i>Physical Review B</i> , 2011, 83, .	3.2	30
23	Absence of Long-Range Order in a Triangular Spin System with Dipolar Interactions. <i>Physical Review Letters</i> , 2018, 120, 187202.	7.8	30
24	Quantum Phases of Quadrupolar Fermi Gases in Optical Lattices. <i>Physical Review Letters</i> , 2013, 110, 155301.	7.8	28
25	Modulated pair condensate of p-orbital ultracold fermions. <i>Physical Review A</i> , 2010, 82, .	2.5	24
26	Effective action approach to the p-band Mott insulator and superfluid transition. <i>Physical Review A</i> , 2011, 83, .	2.5	22
27	Dynamics of Spin Transport in Voltage-Biased Josephson Junctions. <i>Physical Review Letters</i> , 2007, 98, 206601.	7.8	20
28	Mott scattering at the interface between a metal and a topological insulator. <i>Physical Review B</i> , 2010, 82, .	3.2	17
29	Temperature dependent Fermi arcs in the normal state of the underdoped cuprate superconductors. <i>Physical Review B</i> , 2007, 75, .	3.2	15
30	Unconventional spin-density waves in dipolar Fermi gases. <i>Physical Review A</i> , 2013, 87, .	2.5	15
31	Frustrated Magnetism of Dipolar Molecules on a Square Optical Lattice: Prediction of a Quantum Paramagnetic Ground State. <i>Physical Review Letters</i> , 2017, 119, 050401.	7.8	14
32	Renormalization group analysis of dipolar Heisenberg model on square lattice. <i>Physical Review B</i> , 2018, 97, .	3.2	14
33	Illuminating the bulk-boundary correspondence of a non-Hermitian stub lattice with Majorana stars. <i>Physical Review B</i> , 2021, 104, .	3.2	14
34	Orbital order of spinless fermions near an optical Feshbach resonance. <i>Physical Review A</i> , 2011, 84, .	2.5	13
35	Exactly Solvable Points and Symmetry Protected Topological Phases of Quantum Spins on a Zig-Zag Lattice. <i>Physical Review Letters</i> , 2019, 122, 180401.	7.8	13
36	Rise and fall of plaquette order in the Shastry-Sutherland magnet revealed by pseudofermion functional renormalization group. <i>Physical Review B</i> , 2022, 105, .	3.2	12

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37	Scrambling dynamics and many-body chaos in a random dipolar spin model. Physical Review A, 2019, 99, .	2.5	11
38	Excitations in Correlated Superfluids near a Continuous Transition into a Supersolid. Physical Review Letters, 2006, 96, 105303.	7.8	10
39	f -wave superfluidity from repulsive interaction in Rydberg-dressed Fermi gas. Physical Review A, 2020, 101, .	2.5	10
40	Spin-Orbital Exchange of Strongly Interacting Fermions in the Band of a Two-Dimensional Optical Lattice. Physical Review Letters, 2015, 114, 100406.	7.8	9
41	Nearly flat Andreev bound states in superconductor-topological insulator hybrid structures. Physical Review B, 2012, 86, .	3.2	8
42	A continuum of compass spin models on the honeycomb lattice. New Journal of Physics, 2016, 18, 053040.	2.9	8
43	An Effective Field Theory for One-dimensional Polarized Fermi Gases. Journal of Low Temperature Physics, 2010, 158, 36-42.	1.4	7
44	Anatomy of a Periodically Driven p -Wave Superconductor. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 883-895.	1.5	7
45	Effective theory of interacting fermions in shaken square optical lattices. Physical Review A, 2017, 95, .	2.5	7
46	Topological Phases of Dipolar Particles in Elongated Wannier Orbitals. Physical Review Letters, 2010, 104, 165303.	7.8	6
47	SnTe field effect transistors and the anomalous electrical response of structural phase transition. Applied Physics Letters, 2014, 105, .	3.3	6
48	Competing many-body instabilities in two-dimensional dipolar Fermi gases. Physical Review A, 2016, 94, .	2.5	5
49	Chiral and counter-propagating Majorana fermions in a p -wave superconductor. New Journal of Physics, 2019, 21, 123014.	2.9	5
50	Quench dynamics of Hopf insulators. Physical Review B, 2020, 101, .	3.2	4
51	Differential conductance anomaly in superconducting quantum point contacts. Physical Review B, 2009, 80, .	3.2	3
52	Cosine edge modes in a periodically driven quantum system. Physical Review B, 2016, 94, .	3.2	3
53	High performance topological insulator nanowire field-effect transistors. , 2013, , .		2
54	Dynamical Process of Excitation Fusion in Polymers. Journal of Chemical Information and Computer Sciences, 2000, 40, 542-544.	2.8	0

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55	Nonequilibrium Spin-transfer Torque in SFNFS Junctions. AIP Conference Proceedings, 2006, , .	0.4	0
56	Temperature scaling of Fermi arcs in the normal state of the underdoped cuprate superconductors. Physica B: Condensed Matter, 2008, 403, 1104-1106.	2.7	0
57	High performance Bi2/math>Se3/math> nanowire field-effect transistors. , 2013, , .		0
58	Weyl nodes in periodic structures of superconductors and spin-active materials. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20150151.	3.4	0
59	Topological Insulators with Ultracold Atoms. Springer Series on Atomic, Optical, and Plasma Physics, 2013, , 201-215.	0.2	0
60	Tuning the topology of p -wave superconductivity in an analytically solvable two-band model. Physical Review B, 2020, 102, .	3.2	0
61	Learning a compass spin model with neural network quantum states. Journal of Physics Condensed Matter, 2022, 34, 125802.	1.8	0