

Erhai Zhao

List of Publications by Year in descending order

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61
papers

1,772
citations

257450

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265206

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63
all docs

63
docs citations

63
times ranked

1467
citing authors

#	ARTICLE	IF	CITATIONS
1	Learning a compass spin model with neural network quantum states. Journal of Physics Condensed Matter, 2022, 34, 125802.	1.8	0
2	Rise and fall of plaquette order in the Shastry-Sutherland magnet revealed by pseudofermion functional renormalization group. Physical Review B, 2022, 105, .	3.2	12
3	Knots and Non-Hermitian Bloch Bands. Physical Review Letters, 2021, 126, 010401.	7.8	77
4	Illuminating the bulk-boundary correspondence of a non-Hermitian stub lattice with Majorana stars. Physical Review B, 2021, 104, .	3.2	14
5	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave superfluidity from repulsive interaction in Rydberg-dressed Fermi gas. Physical Review A, 2020, 101, .	2.5	10
6	Dynamical Singularities of Floquet Higher-Order Topological Insulators. Physical Review Letters, 2020, 124, 057001.	7.8	90
7	Quench dynamics of Hopf insulators. Physical Review B, 2020, 101, .	3.2	4
8	Topological Invariants for Quantum Quench Dynamics from Unitary Evolution. Physical Review Letters, 2020, 124, 160402.	7.8	44
9	Tuning the topology of p -wave superconductivity in an analytically solvable two-band model. Physical Review B, 2020, 102, .	3.2	0
10	Scrambling dynamics and many-body chaos in a random dipolar spin model. Physical Review A, 2019, 99, .	2.5	11
11	Exactly Solvable Points and Symmetry Protected Topological Phases of Quantum Spins on a Zig-Zag Lattice. Physical Review Letters, 2019, 122, 180401.	7.8	13
12	Chiral and counter-propagating Majorana fermions in a p-wave superconductor. New Journal of Physics, 2019, 21, 123014.	2.9	5
13	Absence of Long-Range Order in a Triangular Spin System with Dipolar Interactions. Physical Review Letters, 2018, 120, 187202.	7.8	30
14	Topological circuits of inductors and capacitors. Annals of Physics, 2018, 399, 289-313.	2.8	55
15	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
16	Renormalization group analysis of dipolar Heisenberg model on square lattice. Physical Review B, 2018, 97, .	3.2	14
17	Frustrated Magnetism of Dipolar Molecules on a Square Optical Lattice: Prediction of a Quantum Paramagnetic Ground State. Physical Review Letters, 2017, 119, 050401.	7.8	14
18	Effective theory of interacting fermions in shaken square optical lattices. Physical Review A, 2017, 95, .	2.5	7

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19	A continuum of compass spin models on the honeycomb lattice. <i>New Journal of Physics</i> , 2016, 18, 053040.	2.9	8
20	Anatomy of a Periodically Driven p -Wave Superconductor. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016, 71, 883-895.	1.5	7
21	Competing many-body instabilities in two-dimensional dipolar Fermi gases. <i>Physical Review A</i> , 2016, 94, .	2.5	5
22	Cosine edge modes in a periodically driven quantum system. <i>Physical Review B</i> , 2016, 94, .	3.2	3
23	Spin-Orbital Exchange of Strongly Interacting Fermions in the Band of a Two-Dimensional Optical Lattice. <i>Physical Review Letters</i> , 2015, 114, 100406.	7.8	9
24	Counter-propagating Edge Modes and Topological Phases of a Kicked Quantum Hall System. <i>Physical Review Letters</i> , 2014, 112, 026805.	7.8	90
25	SnTe field effect transistors and the anomalous electrical response of structural phase transition. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	6
26	Floquet edge states in a harmonically driven integer quantum Hall system. <i>Physical Review B</i> , 2014, 90, .	3.2	44
27	High performance topological insulator nanowire field-effect transistors. , 2013, , .		2
28	Topological states in a ladder-like optical lattice containing ultracold atoms in higher orbital bands. <i>Nature Communications</i> , 2013, 4, 1523.	12.8	138
29	Unconventional spin-density waves in dipolar Fermi gases. <i>Physical Review A</i> , 2013, 87, .	2.5	15
30	Topological Insulator Bi ₂ Se ₃ Nanowire High Performance Field-Effect Transistors. <i>Scientific Reports</i> , 2013, 3, .	3.3	73
31	High performance Bi ₂ Se ₃ nanowire field-effect transistors. , 2013, , .		0
32	Quantum Phases of Quadrupolar Fermi Gases in Optical Lattices. <i>Physical Review Letters</i> , 2013, 110, 155301.	7.8	28
33	Topological Insulators with Ultracold Atoms. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2013, , 201-215.	0.2	0
34	Current-phase relation for Josephson effect through helical metal. <i>Physical Review B</i> , 2012, 86, .	3.2	38
35	Bond Order Solid of Two-Dimensional Dipolar Fermions. <i>Physical Review Letters</i> , 2012, 108, 145301.	7.8	43
36	Nearly flat Andreev bound states in superconductor-topological insulator hybrid structures. <i>Physical Review B</i> , 2012, 86, .	3.2	8

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37	Chern numbers hiding in time-of-flight images. <i>Physical Review A</i> , 2011, 84, .	2.5	61
38	Microscopic simulation of superconductor/topological insulator proximity structures. <i>Physical Review B</i> , 2011, 83, .	3.2	30
39	Orbital order of spinless fermions near an optical Feshbach resonance. <i>Physical Review A</i> , 2011, 84, .	2.5	13
40	Effective action approach to the p-band Mott insulator and superfluid transition. <i>Physical Review A</i> , 2011, 83, .	2.5	22
41	Modulated pair condensate of p-orbital ultracold fermions. <i>Physical Review A</i> , 2010, 82, .	2.5	24
42	An Effective Field Theory for One-dimensional Polarized Fermi Gases. <i>Journal of Low Temperature Physics</i> , 2010, 158, 36-42.	1.4	7
43	Liquid crystal phases of ultracold dipolar fermions on a lattice. <i>Physical Review B</i> , 2010, 81, .	3.2	35
44	Topological Phases of Dipolar Particles in Elongated Wannier Orbitals. <i>Physical Review Letters</i> , 2010, 104, 165303.	7.8	6
45	Mott scattering at the interface between a metal and a topological insulator. <i>Physical Review B</i> , 2010, 82, .	3.2	17
46	Differential conductance anomaly in superconducting quantum point contacts. <i>Physical Review B</i> , 2009, 80, .	3.2	3
47	Analytic Thermodynamics and Thermometry of Gaudin-Yang Fermi Gases. <i>Physical Review Letters</i> , 2009, 103, 140404.	7.8	43
48	Temperature scaling of Fermi arcs in the normal state of the underdoped cuprate superconductors. <i>Physica B: Condensed Matter</i> , 2008, 403, 1104-1106.	2.7	0
49	Theory of nonequilibrium spin transport and spin-transfer torque in superconducting-ferromagnetic nanostructures. <i>Physical Review B</i> , 2008, 78, .	3.2	38
50	Theory of quasi-one-dimensional imbalanced Fermi gases. <i>Physical Review A</i> , 2008, 78, .	2.5	74
51	Orbital Order in Mott Insulators of Spinless p -Band Fermions. <i>Physical Review Letters</i> , 2008, 100, 160403.	7.8	80
52	Self-consistent slave rotor mean-field theory for strongly correlated systems. <i>Physical Review B</i> , 2007, 76, .	3.2	53
53	Temperature dependent Fermi arcs in the normal state of the underdoped cuprate superconductors. <i>Physical Review B</i> , 2007, 75, .	3.2	15
54	Dynamics of Spin Transport in Voltage-Biased Josephson Junctions. <i>Physical Review Letters</i> , 2007, 98, 206601.	7.8	20

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55	Excitations in Correlated Superfluids near a Continuous Transition into a Supersolid. Physical Review Letters, 2006, 96, 105303.	7.8	10
56	Nonequilibrium Spin-transfer Torque in SFNFS Junctions. AIP Conference Proceedings, 2006, , .	0.4	0
57	BCS-BEC Crossover on the Two-Dimensional Honeycomb Lattice. Physical Review Letters, 2006, 97, 230404.	7.8	118
58	Heat transport through Josephson point contacts. Physical Review B, 2004, 69, .	3.2	49
59	Nonequilibrium superconductivity near spin-active interfaces. Physical Review B, 2004, 70, .	3.2	77
60	Phase Modulated Thermal Conductance of Josephson Weak Links. Physical Review Letters, 2003, 91, 077003.	7.8	53
61	Dynamical Process of Excitation Fusion in Polymers. Journal of Chemical Information and Computer Sciences, 2000, 40, 542-544.	2.8	0