

Xiaopeng Li

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

1,653
citations

361388

20
h-index

276858

41
g-index

45
all docs

45
docs citations

45
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Entanglement in Neural Network States. <i>Physical Review X</i> , 2017, 7, .	8.9	241
2	Machine learning topological states. <i>Physical Review B</i> , 2017, 96, .	3.2	222
3	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
4	Mobility edges in one-dimensional bichromatic incommensurate potentials. <i>Physical Review B</i> , 2017, 96, .	3.2	125
5	Many-Body Localization and Quantum Nonergodicity in a Model with a Single-Particle Mobility Edge. <i>Physical Review Letters</i> , 2015, 115, 186601.	7.8	123
6	Physics of higher orbital bands in optical lattices: a review. <i>Reports on Progress in Physics</i> , 2016, 79, 116401.	20.1	89
7	Quantum nonergodicity and fermion localization in a system with a single-particle mobility edge. <i>Physical Review B</i> , 2016, 93, .	3.2	74
8	Spirals and Skyrmions in Two Dimensional Oxide Heterostructures. <i>Physical Review Letters</i> , 2014, 112, 067202.	7.8	44
9	Exotic topological density waves in cold atomic Rydberg-dressed fermions. <i>Nature Communications</i> , 2015, 6, 7137.	12.8	41
10	Many-body localization in incommensurate models with a mobility edge. <i>Annalen Der Physik</i> , 2017, 529, 1600399.	2.4	40
11	Weyl Superfluidity in a Three-Dimensional Dipolar Fermi Gas. <i>Physical Review Letters</i> , 2015, 114, 045302.	7.8	38
12	Time-Reversal Symmetry Breaking of p-Orbital Bosons in a One-Dimensional Optical Lattice. <i>Physical Review Letters</i> , 2012, 108, 175302.	7.8	37
13	Evidence of Potts-Nematic Superfluidity in a Hexagonal $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ Optical Lattice. <i>Physical Review Letters</i> , 2021, 126, 035301.	7.8	34
14	Majorana spintronics. <i>Physical Review B</i> , 2016, 94, .	3.2	33
15	Chiral superfluidity with p-wave symmetry from an interacting s-wave atomic Fermi gas. <i>Nature Communications</i> , 2014, 5, 5064.	12.8	31
16	Observation of a Dynamical Sliding Phase Superfluid with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle P \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -Band Bosons. <i>Physical Review Letters</i> , 2018, 121, 265301.	7.8	30
17	Programmable Quantum Annealing Architectures with Ising Quantum Wires. <i>PRX Quantum</i> , 2020, 1, .	9.2	29
18	Quantum adiabatic algorithm design using reinforcement learning. <i>Physical Review A</i> , 2020, 101, .	2.5	25

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19	Logarithmic entanglement lightcone in many-body localized systems. <i>Physical Review B</i> , 2017, 95, .	3.2	23
20	Effective action approach to the p-band Mott insulator and superfluid transition. <i>Physical Review A</i> , 2011, 83, .	2.5	22
21	Precise programmable quantum simulations with optical lattices. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	20
22	Proposed formation and dynamical signature of a chiral Bose liquid in an optical lattice. <i>Nature Communications</i> , 2014, 5, 3205.	12.8	19
23	Statistical bubble localization with random interactions. <i>Physical Review B</i> , 2017, 95, .	3.2	18
24	Chiral Induced Spin Selectivity as a Spontaneous Intertwined Order. <i>Physical Review Letters</i> , 2020, 125, 263002.	7.8	18
25	Chiral magnetism and spontaneous spin Hall effect of interacting Bose superfluids. <i>Nature Communications</i> , 2014, 5, 5174.	12.8	16
26	Bose-Einstein supersolid phase for a type of momentum-dependent interaction. <i>Physical Review A</i> , 2011, 83, .	2.5	15
27	Damping of Long-Wavelength Collective Modes in Spinor Bose-Fermi Mixtures. <i>Physical Review Letters</i> , 2015, 114, 225303.	7.8	13
28	Rotation-Symmetry-Enforced Coupling of Spin and Angular Momentum for p-Orbital Bosons. <i>Physical Review Letters</i> , 2018, 121, 093401.	7.8	11
29	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave superfluidity from repulsive interaction in Rydberg-dressed Fermi gas. <i>Physical Review A</i> , 2020, 101, .	2.5	10
30	Spontaneous Quantum Hall Effect in an Atomic Spinor Bose-Fermi Mixture. <i>Physical Review Letters</i> , 2015, 114, 125303.	7.8	9
31	Finite temperature phase transition in a cross-dimensional triangular lattice. <i>New Journal of Physics</i> , 2019, 21, 073015.	2.9	9
32	Atom-orbital qubit under nonadiabatic holonomic quantum control. <i>Physical Review A</i> , 2021, 104, .	2.5	9
33	Quantum information scrambling through a high-complexity operator mapping. <i>Physical Review A</i> , 2019, 100, .	2.5	8
34	Parallel multicomponent interferometer with a spinor Bose-Einstein condensate. <i>Physical Review A</i> , 2019, 100, .	2.5	7
35	Dynamic formation of quasicondensate and spontaneous vortices in a strongly interacting Fermi gas. <i>Physical Review Research</i> , 2021, 3, .	3.6	6
36	The reservoir learning power across quantum many-body localization transition. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	6

#	ARTICLE	IF	CITATIONS
37	Universal Dynamical Scaling of Quasi-Two-Dimensional Vortices in a Strongly Interacting Fermionic Superfluid. <i>Physical Review Letters</i> , 2021, 126, 185302.	7.8	5
38	Spin-induced orbital frustration in a hexagonal optical lattice. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
39	Orbital coupled dipolar fermions in an asymmetric optical ladder. <i>Physical Review A</i> , 2013, 87, .	2.5	4
40	Hard-instance learning for quantum adiabatic prime factorization. <i>Physical Review A</i> , 2022, 105, .	2.5	3
41	Quantum Adiabatic Doping with Incommensurate Optical Lattices. <i>Physical Review Letters</i> , 2019, 123, 233603.	7.8	2
42	Detecting many-body-localization lengths with cold atoms. <i>Physical Review A</i> , 2018, 97, .	2.5	1
43	Chiral spin condensation in a one-dimensional optical lattice. <i>Physical Review B</i> , 2017, 96, .	3.2	0
44	Quantum adiabatic doping for atomic Fermi-Hubbard quantum simulations. <i>Physical Review A</i> , 2021, 103, .	2.5	0
45	Disturbing the Fermi Sea with Rydberg States. <i>Physics Magazine</i> , 0, 14, .	0.1	0