

Xiaopeng Li

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

1,015
citations

16
h-index

31
g-index

45
ext. papers

1,418
ext. citations

6.2
avg, IF

5.02
L-index

#	Paper	IF	Citations
38	The reservoir learning power across quantum many-body localization transition. <i>Frontiers of Physics</i> , 2022 , 17, 1	3.7	0
37	Dynamic formation of quasicondensate and spontaneous vortices in a strongly interacting Fermi gas. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
36	Universal Dynamical Scaling of Quasi-Two-Dimensional Vortices in a Strongly Interacting Fermionic Superfluid. <i>Physical Review Letters</i> , 2021 , 126, 185302	7.4	2
35	Evidence of Potts-Nematic Superfluidity in a Hexagonal sp^2 Optical Lattice. <i>Physical Review Letters</i> , 2021 , 126, 035301	7.4	5
34	Quantum adiabatic algorithm design using reinforcement learning. <i>Physical Review A</i> , 2020 , 101,	2.6	11
33	f-wave superfluidity from repulsive interaction in Rydberg-dressed Fermi gas. <i>Physical Review A</i> , 2020 , 101,	2.6	1
32	Chiral Induced Spin Selectivity as a Spontaneous Intertwined Order. <i>Physical Review Letters</i> , 2020 , 125, 263002	7.4	5
31	Programmable Quantum Annealing Architectures with Ising Quantum Wires. <i>PRX Quantum</i> , 2020 , 1,	6.1	7
30	Precise programmable quantum simulations with optical lattices. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	8
29	Finite temperature phase transition in a cross-dimensional triangular lattice. <i>New Journal of Physics</i> , 2019 , 21, 073015	2.9	5
28	Parallel multicomponent interferometer with a spinor Bose-Einstein condensate. <i>Physical Review A</i> , 2019 , 100,	2.6	6
27	Quantum information scrambling through a high-complexity operator mapping. <i>Physical Review A</i> , 2019 , 100,	2.6	3
26	Quantum Adiabatic Doping with Incommensurate Optical Lattices. <i>Physical Review Letters</i> , 2019 , 123, 233603	7.4	0
25	Rotation-Symmetry-Enforced Coupling of Spin and Angular Momentum for p-Orbital Bosons. <i>Physical Review Letters</i> , 2018 , 121, 093401	7.4	2
24	Observation of a Dynamical Sliding Phase Superfluid with P-Band Bosons. <i>Physical Review Letters</i> , 2018 , 121, 265301	7.4	13
23	Logarithmic entanglement lightcone in many-body localized systems. <i>Physical Review B</i> , 2017 , 95,	3.3	17
22	Statistical bubble localization with random interactions. <i>Physical Review B</i> , 2017 , 95,	3.3	11

21	Many-body localization in incommensurate models with a mobility edge. <i>Annalen Der Physik</i> , 2017 , 529, 1600399	2.6	18
20	Mobility edges in one-dimensional bichromatic incommensurate potentials. <i>Physical Review B</i> , 2017 , 96,	3.3	64
19	Machine learning topological states. <i>Physical Review B</i> , 2017 , 96,	3.3	150
18	Quantum Entanglement in Neural Network States. <i>Physical Review X</i> , 2017 , 7,	9.1	165
17	Physics of higher orbital bands in optical lattices: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 116401	11.4	43
16	Quantum nonergodicity and fermion localization in a system with a single-particle mobility edge. <i>Physical Review B</i> , 2016 , 93,	3.3	44
15	Majorana spintronics. <i>Physical Review B</i> , 2016 , 94,	3.3	22
14	Spontaneous quantum Hall effect in an atomic spinor Bose-Fermi mixture. <i>Physical Review Letters</i> , 2015 , 114, 125303	7.4	5
13	Damping of Long-Wavelength Collective Modes in Spinor Bose-Fermi Mixtures. <i>Physical Review Letters</i> , 2015 , 114, 225303	7.4	10
12	Many-Body Localization and Quantum Nonergodicity in a Model with a Single-Particle Mobility Edge. <i>Physical Review Letters</i> , 2015 , 115, 186601	7.4	86
11	Exotic topological density waves in cold atomic Rydberg-dressed fermions. <i>Nature Communications</i> , 2015 , 6, 7137	17.4	28
10	Weyl superfluidity in a three-dimensional dipolar Fermi gas. <i>Physical Review Letters</i> , 2015 , 114, 045302	7.4	31
9	Spirals and Skyrmions in two dimensional oxide heterostructures. <i>Physical Review Letters</i> , 2014 , 112, 067202	7.4	38
8	Chiral superfluidity with p-wave symmetry from an interacting s-wave atomic Fermi gas. <i>Nature Communications</i> , 2014 , 5, 5064	17.4	23
7	Chiral magnetism and spontaneous spin Hall effect of interacting Bose superfluids. <i>Nature Communications</i> , 2014 , 5, 5174	17.4	12
6	Proposed formation and dynamical signature of a chiral Bose liquid in an optical lattice. <i>Nature Communications</i> , 2014 , 5, 3205	17.4	16
5	Topological states in a ladder-like optical lattice containing ultracold atoms in higher orbital bands. <i>Nature Communications</i> , 2013 , 4, 1523	17.4	103
4	Orbital coupled dipolar fermions in an asymmetric optical ladder. <i>Physical Review A</i> , 2013 , 87,	2.6	2

3	Time-reversal symmetry breaking of p-orbital bosons in a one-dimensional optical lattice. <i>Physical Review Letters</i> , 2012 , 108, 175302	7.4	28
2	Effective action approach to the p-band Mott insulator and superfluid transition. <i>Physical Review A</i> , 2011 , 83,	2.6	16
1	Bose-Einstein supersolid phase for a type of momentum-dependent interaction. <i>Physical Review A</i> , 2011 , 83,	2.6	13