Ya-Hui Zhang

List of Publications by Year
in descending order

22 papers	1,682 citations	567281 15 h-index	642732 23 g-index
23 all docs	23 docs citations	23 times ranked	1419 citing authors

#	Article	IF	Citations
1	Tunable correlated Chern insulator and ferromagnetism in a moirÃ© superlattice. Nature, 2020, 579, 56-61.	27.8	425
2	Nearly flat Chern bands in moirÃ© superlattices. Physical Review B, 2019, 99, .	3.2	295
3	Electrically tunable correlated and topological states in twisted monolayerâ€“bilayer graphene. Nature Physics, 2021, 17, 374-380.	16.7	173
4	Twisted bilayer graphene aligned with hexagonal boron nitride: Anomalous Hall effect and a lattice model. Physical Review Research, 2019, 1, .	3.6	146
5	Ferromagnetism in Narrow Bands of MoirÃ© Superlattices. Physical Review Letters, 2020, 124, 187601.	7.8	123
6	Type-II <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>t</mml:mi><mml:mtext>â^'</mml:mtext><mml:mi>J</mml model in superconducting nickelate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Nd</mml:mi><mml:mrow><mml:mn>1</mml Physical Review Research, 2020, 2, .	3.6	73
7	Bridging Hubbard model physics and quantum Hall physics in trilayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mtext>graphene</mml:mtext><mml:mo>/</mml:mo><mml:mi moirÃ© superlattice. Physical Review B, 2019, 99, .	3.2	67
8	Spin-orbitâ€“driven ferromagnetism at half moirÃ© filling in magic-angle twisted bilayer graphene. Science, 2022, 375, 437-441.	12.6	61
9	Pair-density waves, charge-density waves, and vortices in high- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>c</mml:mi></mml:msub cuprates. Physical Review B, 2018, 97, .	3.2	53
10	Landau level degeneracy in twisted bilayer graphene: Role of symmetry breaking. Physical Review B, 2019, 100, .	3.2	46
11	SU(4) Chiral Spin Liquid, Exciton Supersolid, and Electric Detection in MoirÃ© Bilayers. Physical Review Letters, 2021, 127, 247701.	7.8	39
12	Competing correlated states and abundant orbital magnetism in twisted monolayer-bilayer graphene. Nature Communications, 2021, 12, 4727.	12.8	37
13	From the pseudogap metal to the Fermi liquid using ancilla qubits. Physical Review Research, 2020, 2, .	3.6	31
14	Spectroscopy signatures of electron correlations in a trilayer graphene/hBN moirÃ© superlattice. Science, 2022, 375, 1295-1299.	12.6	30
15	Deconfined criticality and ghost Fermi surfaces at the onset of antiferromagnetism in a metal. Physical Review B, 2020, 102, .	3.2	22
16	Spin liquids and pseudogap metals in the SU(4) Hubbard model in a moirÃ© superlattice. Physical Review B, 2020, 101, .	3.2	13
17	Quantum Hall spin liquids and their possible realization in moirÃ© systems. Physical Review B, 2020, 102, .	3.2	10
18	Strong interlayer interactions in bilayer and trilayer moirÃ© superlattices. Science Advances, 2022, 8, eabk1911.	10.3	9

#	Article	IF	Citations
19	Small to large Fermi surface transition in a single-band model using randomly coupled ancillas. Physical Review B, 2021, 103, .	3.2	8
20	Electronic spectra with paramagnon fractionalization in the single-band Hubbard model. Physical Review B, 2022, 105, .	3.2	7
21	Pair-density-wave superconductor from doping Haldane chain and rung-singlet ladder. Physical Review B, 2022, 106, .	3.2	4
22	Fractional Fermi liquid in a generalized tâˆ’J model. Physical Review B, 2021, 103, .	3.2	2