

Zi-Xiang Hu

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

485
citations

840776

11
h-index

677142

22
g-index

34
all docs

34
docs citations

34
times ranked

318
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractional quantum Hall effect at $\nu = 5/2$. Ground states, non-Abelian quasiholes, and edge modes in a microscopic model. Physical Review B, 2008, 77, .	3.2	97
2	Model Wave Functions for the Collective Modes and the Magnetoroton Theory of the Fractional Quantum Hall Effect. Physical Review Letters, 2012, 108, 256807.	7.8	71
3	Theory of unconventional quantum Hall effect in strained graphene. Physical Review B, 2013, 87, .	3.2	44
4	Edge-mode velocities and thermal coherence of quantum Hall interferometers. Physical Review B, 2009, 80, .	3.2	38
5	Generalized Pseudopotentials for the Anisotropic Fractional Quantum Hall Effect. Physical Review Letters, 2017, 118, 146403.	7.8	33
6	Quantum Phases in a Quantum Rabi Triangle. Physical Review Letters, 2021, 127, 063602.	7.8	29
7	Comparison of the density-matrix renormalization group method applied to fractional quantum Hall systems in different geometries. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 2157-2161.	2.1	27
8	Realizing Universal Edge Properties in Graphene Fractional Quantum Hall Liquids. Physical Review Letters, 2011, 107, 236806.	7.8	18
9	Anisotropic pseudopotential characterization of quantum Hall systems under a tilted magnetic field. Physical Review B, 2017, 96, .	3.2	18
10	Construction of edge states in fractional quantum Hall systems by Jack polynomials. Physical Review B, 2014, 89, .	3.2	17
11	Quasiparticle tunneling in the Moore-Read fractional quantum Hall state. Physical Review B, 2009, 80, .	3.2	16
12	Principal component analysis of the geometry in anisotropic quantum Hall states. Physical Review B, 2020, 102, .	3.2	10
13	Edge states at the interface between monolayer and bilayer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 610-615.	2.1	8
14	Identification of the fractional quantum Hall edge modes by density oscillations. Physical Review B, 2016, 94, .	3.2	6
15	Phase transition and intrinsic metric of dipolar fermions in the quantum Hall regime. Physical Review B, 2018, 97, .	3.2	6
16	Edge states in a honeycomb lattice: Effects of anisotropic hopping and mixed edges. Physical Review B, 2010, 81, .	3.2	5
17	Single-mode approximation for quantum Hall states with broken rotational symmetry. Physical Review B, 2013, 88, .	3.2	5
18	Behavior of fractional quantum Hall states in LLL and 1LL with in-plane magnetic field and Landau level mixing: A numerical investigation. Chinese Physics B, 2018, 27, 087306.	1.4	5

#	ARTICLE	IF	CITATIONS
19	BULK AND EDGE QUASIHOLE TUNNELING AMPLITUDES IN THE LAUGHLIN STATE. International Journal of Modern Physics Conference Series, 2012, 11, 70-78.	0.7	4
20	Edge reconstruction of fractional quantum Hall liquids with spin degrees of freedom. Physical Review B, 2013, 88, .	3.2	4
21	Entanglement spectrum edge reconstruction and correlation hole of fractional quantum Hall liquids. Physical Review B, 2020, 101, .	3.2	3
22	Dynamics of quantum Hall interfaces. Physical Review B, 2021, 104, .	3.2	3
23	Anyonic braiding via quench dynamics in fractional quantum Hall liquids. Physical Review B, 2022, 105, .	3.2	3
24	PERSISTENT SPIN CURRENT AND ENTANGLEMENT IN THE ANISOTROPIC SPIN RING. Modern Physics Letters B, 2007, 21, 327-337.	1.9	2
25	Topological quantum phase transition from a fermionic integer quantum Hall phase to a bosonic fractional quantum Hall phase through a p-wave Feshbach resonance. Physical Review B, 2017, 95, .	3.2	2
26	Scaling analysis of the non-Abelian quasiparticle tunneling in \mathbb{Z}_k FQH states. Journal of Physics Condensed Matter, 2018, 30, 255601.	1.8	2
27	Neutral excitation and bulk gap of fractional quantum Hall liquids in disk geometry. Chinese Physics B, 2019, 28, 067303.	1.4	2
28	Thermoelectric Hall conductivity of fractional quantum Hall systems on a disk. Physical Review B, 2021, 103, .	3.2	2
29	The length scale measurements of the fractional quantum Hall state on a cylinder. New Journal of Physics, 2015, 17, 095006.	2.9	1
30	Universal properties of the FQH state from the topological entanglement entropy and disorder effects. Annals of Physics, 2017, 384, 225-234.	2.8	1
31	Edge-induced topological phase transition of the quantum Hall state at half filling. Physical Review B, 2019, 99, .	3.2	1
32	Topological phase transition in a two-species fermion system: Effects of a rotating trap potential or a synthetic gauge field. Physical Review B, 2018, 97, .	3.2	0
33	BULK AND EDGE QUASIHOLE TUNNELING AMPLITUDES IN THE LAUGHLIN STATE. , 2012, , .		0