

Zi-Xiang Hu

List of Publications by Year in descending order

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papers

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840776

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34
all docs

34
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34
times ranked

318
citing authors

#	ARTICLE	IF	CITATIONS
1	Anyonic braiding via quench dynamics in fractional quantum Hall liquids. Physical Review B, 2022, 105, .	3.2	3
2	Thermoelectric Hall conductivity of fractional quantum Hall systems on a disk. Physical Review B, 2021, 103, .	3.2	2
3	Quantum Phases in a Quantum Rabi Triangle. Physical Review Letters, 2021, 127, 063602.	7.8	29
4	Dynamics of quantum Hall interfaces. Physical Review B, 2021, 104, .	3.2	3
5	Principal component analysis of the geometry in anisotropic quantum Hall states. Physical Review B, 2020, 102, .	3.2	10
6	Entanglement spectrum edge reconstruction and correlation hole of fractional quantum Hall liquids. Physical Review B, 2020, 101, .	3.2	3
7	Neutral excitation and bulk gap of fractional quantum Hall liquids in disk geometry. Chinese Physics B, 2019, 28, 067303.	1.4	2
8	Edge-induced topological phase transition of the quantum Hall state at half filling. Physical Review B, 2019, 99, .	3.2	1
9	Phase transition and intrinsic metric of dipolar fermions in the quantum Hall regime. Physical Review B, 2018, 97, .	3.2	6
10	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
11	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
12	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
13	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
14	Generalized Pseudopotentials for the Anisotropic Fractional Quantum Hall Effect. Physical Review Letters, 2017, 118, 146403.	7.8	33
15	Universal properties of the FQH state from the topological entanglement entropy and disorder effects. Annals of Physics, 2017, 384, 225-234.	2.8	1
16	Anisotropic pseudopotential characterization of quantum Hall systems under a tilted magnetic field. Physical Review B, 2017, 96, .	3.2	18
17	Identification of the fractional quantum Hall edge modes by density oscillations. Physical Review B, 2016, 94, .	3.2	6
18	The length scale measurements of the fractional quantum Hall state on a cylinder. New Journal of Physics, 2015, 17, 095006.	2.9	1

#	ARTICLE	IF	CITATIONS
19	Construction of edge states in fractional quantum Hall systems by Jack polynomials. Physical Review B, 2014, 89, .	3.2	17
20	Theory of unconventional quantum Hall effect in strained graphene. Physical Review B, 2013, 87, .	3.2	44
21	Single-mode approximation for quantum Hall states with broken rotational symmetry. Physical Review B, 2013, 88, .	3.2	5
22	Edge reconstruction of fractional quantum Hall liquids with spin degrees of freedom. Physical Review B, 2013, 88, .	3.2	4
23	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
24	BULK AND EDGE QUASIHOLE TUNNELING AMPLITUDES IN THE LAUGHLIN STATE. International Journal of Modern Physics Conference Series, 2012, 11, 70-78.	0.7	4
25	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
26	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
27	BULK AND EDGE QUASIHOLE TUNNELING AMPLITUDES IN THE LAUGHLIN STATE. , 2012, , .		0
28	Realizing Universal Edge Properties in Graphene Fractional Quantum Hall Liquids. Physical Review Letters, 2011, 107, 236806.	7.8	18
29	Edge states in a honeycomb lattice: Effects of anisotropic hopping and mixed edges. Physical Review B, 2010, 81, .	3.2	5
30	Edge-mode velocities and thermal coherence of quantum Hall interferometers. Physical Review B, 2009, 80, .	3.2	38
31	Quasiparticle tunneling in the Moore-Read fractional quantum Hall state. Physical Review B, 2009, 80, .	3.2	16
32	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
33	PERSISTENT SPIN CURRENT AND ENTANGLEMENT IN THE ANISOTROPIC SPIN RING. Modern Physics Letters B, 2007, 21, 327-337.	1.9	2