

Ajit Coimbatore Balram

List of Publications by Year in descending order

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papers

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all docs

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43
times ranked

467
citing authors

#	ARTICLE	IF	CITATIONS
1	Even denominator fractional quantum Hall states in higher Landau levels of graphene. Nature Physics, 2019, 15, 154-158.	16.7	76
2	Parton construction of a wave function in the anti-Pfaffian phase. Physical Review B, 2018, 98, .	3.2	60
3	Nature of composite fermions and the role of particle-hole symmetry: A microscopic account. Physical Review B, 2016, 93, .	3.2	55
4	Fractional quantum Hall effect in graphene: Quantitative comparison between theory and experiment. Physical Review B, 2015, 92, .	3.2	53
5	Role of Exciton Screening in the $7/3$ Fractional Quantum Hall Effect. Physical Review Letters, 2013, 110, 186801.	7.8	46
6	Luttinger Theorem for the Strongly Correlated Fermi Liquid of Composite Fermions. Physical Review Letters, 2015, 115, 186805.	7.8	46
7	Prediction of a Non-Abelian Fractional Quantum Hall State with f -Wave Pairing of Composite Fermions in Wide Quantum Wells. Physical Review Letters, 2019, 123, 016802.	7.8	37
8	Phase diagram of fractional quantum Hall effect of composite fermions in multicomponent systems. Physical Review B, 2015, 91, .	3.2	34
9	Spontaneous polarization of composite fermions in the n -level of graphene. Physical Review B, 2015, 92, .	3.2	32
10	State counting for excited bands of the fractional quantum Hall effect: Exclusion rules for bound excitons. Physical Review B, 2013, 88, .	3.2	31
11	Exact results for model wave functions of anisotropic composite fermions in the fractional quantum Hall effect. Physical Review B, 2016, 93, .	3.2	30
12	Fractional Quantum Hall Effect at $\nu = 2$: The Parton Paradigm for the Second Landau Level. Physical Review Letters, 2018, 121, 186601.	7.8	25
13	Fermi wave vector for the partially spin-polarized composite-fermion Fermi sea. Physical Review B, 2017, 96, .	3.2	24
14	Parton construction of particle-hole-conjugate Read-Rezayi parafermion fractional quantum Hall states and beyond. Physical Review B, 2019, 99, .	3.2	23
15	Z_n superconductivity of composite bosons and the fractional quantum Hall effect. Physical Review Research, 2020, 2, .	3.6	23
16	Fractional quantum Hall effect at $\nu = 2$ states against strong disorder observed in $B_i T_x C_{1-x}$ nanotubes. Physical Review Research, 2020, 2, .	3.6	21
17	$B_i T_x C_{1-x}$ nanotubes.	3.2	18
18	A non-Abelian parton state for the $\nu = 2 + 3/8$ fractional quantum Hall effect. SciPost Physics, 2021, 10, .	4.9	16

#	ARTICLE	IF	CITATIONS
19	Positions of the magnetoroton minima in the fractional quantum Hall effect. European Physical Journal B, 2017, 90, 1.	1.5	15
20	Unconventional Z parton states at $\nu = n$: Role of finite width. Physical Review B, 2021, 103, .	3.2	15
21	Non-Abelian fractional quantum Hall state at $3/7$ -filled Landau level. Physical Review Research, 2020, 2, .	3.6	15
22	Particle-hole symmetry for composite fermions: An emergent symmetry in the fractional quantum Hall effect. Physical Review B, 2017, 96, .	3.2	14
23	Quench Dynamics of Collective Modes in Fractional Quantum Hall Bilayers. Physical Review Letters, 2021, 126, 076604.	7.8	14
24	The enigma of the $\nu = 3/2$ quantum Hall effect. Physical Review B, 2017, 95, .	3.2	14
25	Elementary excitations in fractional quantum Hall effect from classical constraints. New Journal of Physics, 2021, 23, 013001.	2.9	13
26	Interacting composite fermions: Nature of the $4/5$, $5/7$, $6/7$, and $6/17$ fractional quantum Hall states. Physical Review B, 2016, 94, .	3.2	12
27	Current-Induced Gap Opening in Interacting Topological Insulator Surfaces. Physical Review Letters, 2019, 123, 246803.	7.8	12
28	Interplay between fractional quantum Hall liquid and crystal phases at low filling. Physical Review B, 2020, 102, .	3.2	12
29	Abelian parton state for the $\nu = 1/2$ fractional quantum Hall effect. Physical Review B, 2021, 103, .	3.2	12
30	Very-High-Energy Collective States of Partons in Fractional Quantum Hall Liquids. Physical Review X, 2022, 12, .	8.9	12
31	Transitions from Abelian composite fermion to non-Abelian parton fractional quantum Hall states in the zeroth Landau level of bilayer graphene. Physical Review B, 2022, 105, .	3.2	11
32	Fractionally charged skyrmions in fractional quantum Hall effect. Nature Communications, 2015, 6, 8981.	12.8	10
33	Origin of the $\nu = 1/2$ fractional quantum Hall effect in wide quantum wells. Physical Review B, 2021, 103, .	3.2	10
34	Parton wave function for the fractional quantum Hall effect at $\nu = 6$. Physical Review Research, 2021, 3, .	3.6	10
35	Scaling relation for determining the critical threshold for continuum percolation of overlapping discs of two sizes. Pramana - Journal of Physics, 2010, 74, 109-114.	1.8	8
36	Theoretical phase diagram of two-component composite fermions in double-layer graphene. Physical Review B, 2020, 101, .	3.2	7

#	ARTICLE	IF	CITATIONS
37	Nature of the anomalous $\nu = 4$ fractional quantum Hall effect in graphene. Physical Review B, 2022, 105, .	3.2	13
38	Prethermalization and entanglement dynamics in interacting topological pumps. Physical Review B, 2022, 105, .	3.2	5
39	Collective excitations of a system of coupled relativistic and nonrelativistic two-dimensional electron gases. Physical Review B, 2014, 90, .	3.2	3
40	Revisiting excitation gaps in the fractional quantum Hall effect. Physical Review B, 2022, 105, .	3.2	3
41	Charge and spin textures of Ising quantum Hall ferromagnet domain walls. Physical Review B, 2019, 100, .	3.2	2
42	Non-perturbative corrections to mean-field critical behavior: the spherical model on a spider-web graph. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 125006.	2.1	1
43	Role of interedge tunneling in localizing Majorana zero modes at the ends of quasi-one-dimensional $\nu = 1$ fractional quantum Hall states. Physical Review B, 2013, 88, .	3.2	1