

Zlatko Papic

List of Publications by Year in descending order

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papers

6,086
citations

109137

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66788

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89
all docs

89
docs citations

89
times ranked

2488
citing authors

#	ARTICLE	IF	CITATIONS
1	Local Conservation Laws and the Structure of the Many-Body Localized States. Physical Review Letters, 2013, 111, 127201.	2.9	687
2	Weak ergodicity breaking from quantum many-body scars. Nature Physics, 2018, 14, 745-749.	6.5	537
3	Universal Slow Growth of Entanglement in Interacting Strongly Disordered Systems. Physical Review Letters, 2013, 110, 260601.	2.9	459
4	Many-Body Localization in Periodically Driven Systems. Physical Review Letters, 2015, 114, 140401.	2.9	391
5	Periodically driven ergodic and many-body localized quantum systems. Annals of Physics, 2015, 353, 196-204.	1.0	300
6	Quantum scarred eigenstates in a Rydberg atom chain: Entanglement, breakdown of thermalization, and stability to perturbations. Physical Review B, 2018, 98, .	1.1	260
7	Recent progress in many-body localization. Annalen Der Physik, 2017, 529, 1700169.	0.9	249
8	Quantum many-body scars and weak breaking of ergodicity. Nature Physics, 2021, 17, 675-685.	6.5	222
9	Criterion for Many-Body Localization-Delocalization Phase Transition. Physical Review X, 2015, 5, .	2.8	206
10	Emergent SU(2) Dynamics and Perfect Quantum Many-Body Scars. Physical Review Letters, 2019, 122, 220603.	2.9	201
11	Interferometric Probes of Many-Body Localization. Physical Review Letters, 2014, 113, 147204.	2.9	153
12	Quantum quenches in the many-body localized phase. Physical Review B, 2014, 90, .	1.1	146
13	Tunable fractional quantum Hall phases in bilayer graphene. Science, 2014, 345, 61-64.	6.0	137
14	Thouless energy and multifractality across the many-body localization transition. Physical Review B, 2017, 96, .	1.1	103
15	Power-Law Entanglement Spectrum in Many-Body Localized Phases. Physical Review Letters, 2016, 117, 160601.	2.9	92
16	Band mass anisotropy and the intrinsic metric of fractional quantum Hall systems. Physical Review B, 2012, 85, .	1.1	87
17	Many-body localization in disorder-free systems: The importance of finite-size constraints. Annals of Physics, 2015, 362, 714-725.	1.0	85
18	Systematic Construction of Scarred Many-Body Dynamics in 1D Lattice Models. Physical Review Letters, 2019, 123, 030601.	2.9	77

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19	Model Wave Functions for the Collective Modes and the Magnetoroton Theory of the Fractional Quantum Hall Effect. <i>Physical Review Letters</i> , 2012, 108, 256807.	2.9	71
20	Slow Quantum Thermalization and Many-Body Revivals from Mixed Phase Space. <i>Physical Review X</i> , 2020, 10, .	2.8	66
21	Quantum scars as embeddings of weakly broken Lie algebra representations. <i>Physical Review B</i> , 2020, 101, .	1.1	61
22	Quantum scars of bosons with correlated hopping. <i>Communications Physics</i> , 2020, 3, .	2.0	58
23	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2022, 375, 321-326.	6.0	55
24	Matrix product states for trial quantum Hall states. <i>Physical Review B</i> , 2013, 87, .	1.1	51
25	Stabilizing two-dimensional quantum scars by deformation and synchronization. <i>Physical Review Research</i> , 2020, 2, .	1.3	49
26	Odd- and even-denominator fractional quantum Hall states in monolayer WSe ₂ . <i>Nature Nanotechnology</i> , 2020, 15, 569-573.	15.6	48
27	Haldane-Hubbard Mott Insulator: From Tetrahedral Spin Crystal to Chiral Spin Liquid. <i>Physical Review Letters</i> , 2016, 116, 137202.	2.9	46
28	Topological Phases in the Zeroth Landau Level of Bilayer Graphene. <i>Physical Review Letters</i> , 2014, 112, 046602.	2.9	43
29	Proposal for Realizing Quantum Scars in the Tilted 1D Fermi-Hubbard Model. <i>Physical Review Letters</i> , 2021, 126, 210601.	2.9	42
30	Fractional quantum Hall effect in a tilted magnetic field. <i>Physical Review B</i> , 2013, 87, .	1.1	41
31	Explicit construction of local conserved operators in disordered many-body systems. <i>Physical Review B</i> , 2016, 94, .	1.1	40
32	Interaction-tuned compressible-to-incompressible phase transitions in quantum Hall systems. <i>Physical Review B</i> , 2009, 80, .	1.1	37
33	Atypical Fractional Quantum Hall Effect in Graphene at Filling Factor $\nu = 1/3$. <i>Physical Review Letters</i> , 2010, 105, 176802.	2.9	37
34	Competing Abelian and non-Abelian topological orders in $\nu = 1/2$ Hall bilayers. <i>Physical Review B</i> , 2015, 91, .	1.1	36
35	Topological Entanglement in Abelian and Non-Abelian Excitation Eigenstates. <i>Physical Review Letters</i> , 2011, 106, 056801.	2.9	35
36	Tunable interactions and phase transitions in Dirac materials in a magnetic field. <i>Physical Review B</i> , 2011, 84, .	1.1	35

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37	Correspondence Principle for Many-Body Scars in Ultracold Rydberg Atoms. <i>Physical Review X</i> , 2021, 11, .	2.8	35
38	Fibonacci anyons and charge density order in the 12/5 and 13/5 quantum Hall plateaus. <i>Physical Review B</i> , 2017, 95, .	1.1	34
39	Slow dynamics in translation-invariant quantum lattice models. <i>Physical Review B</i> , 2018, 97, .	1.1	34
40	Probing the geometry of the Laughlin state. <i>New Journal of Physics</i> , 2016, 18, 025011.	1.2	33
41	Generalized Pseudopotentials for the Anisotropic Fractional Quantum Hall Effect. <i>Physical Review Letters</i> , 2017, 118, 146403.	2.9	33
42	Fractional quantum Hall state at $\nu=14$ in a wide quantum well. <i>Physical Review B</i> , 2009, 79, .	1.1	32
43	Quantum Phase Transitions and the Fractional Quantum Hall State in Wide Quantum Wells. <i>Physical Review Letters</i> , 2012, 109, 266806.	2.9	32
44	Tunable Electron Interactions and Fractional Quantum Hall States in Graphene. <i>Physical Review Letters</i> , 2011, 107, 176602.	2.9	31
45	Geometric Construction of Quantum Hall Clustering Hamiltonians. <i>Physical Review X</i> , 2015, 5, .	2.8	28
46	Comparison of the density-matrix renormalization group method applied to fractional quantum Hall systems in different geometries. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2157-2161.	0.9	27
47	Fractional quantum Hall effects in bilayers in the presence of interlayer tunneling and charge imbalance. <i>Physical Review B</i> , 2010, 82, .	1.1	26
48	Tunneling-driven breakdown of the $\nu=31$ state and the emergent Pfaffian and composite Fermi liquid phases. <i>Physical Review B</i> , 2010, 82, .	1.1	26
49	Quasinoles of Fractional Quantum Hall states: Size estimates via exact diagonalization and density-matrix renormalization group. <i>Physical Review B</i> , 2014, 89, .	1.1	25
50	Single-mode approximation for fractional Chern insulators and the fractional quantum Hall effect on the torus. <i>Physical Review B</i> , 2014, 90, .	1.1	25
51	Geometric quench and nonequilibrium dynamics of fractional quantum Hall states. <i>Physical Review B</i> , 2018, 98, .	1.1	24
52	Theoretical expectations for a fractional quantum Hall effect in graphene. <i>Solid State Communications</i> , 2009, 149, 1056-1060.	0.9	23
53	Emergence of chiral spin liquids via quantum melting of noncoplanar magnetic orders. <i>Physical Review B</i> , 2017, 96, .	1.1	23
54	Imaging Anyons with Scanning Tunneling Microscopy. <i>Physical Review X</i> , 2018, 8, .	2.8	23

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55	Floquet Mechanism for Non-Abelian Fractional Quantum Hall States. <i>Physical Review Letters</i> , 2018, 121, 237401.	2.9	23
56	Bilayer WSe ₂ as a natural platform for interlayer exciton condensates in the strong coupling limit. <i>Nature Nanotechnology</i> , 2022, 17, 577-582.	15.6	22
57	Optimal free descriptions of many-body theories. <i>Nature Communications</i> , 2017, 8, 14926.	5.8	21
58	Extensive Multipartite Entanglement from su(2) Quantum Many-Body Scars. <i>Physical Review Letters</i> , 2022, 129, .	2.9	20
59	Free-fermion descriptions of parafermion chains and string-net models. <i>Physical Review B</i> , 2018, 97, .	1.1	17
60	Solvable models for unitary and nonunitary topological phases. <i>Physical Review B</i> , 2014, 90, .	1.1	16
61	Effective Abelian theory from a non-Abelian topological order in the $\nu = 1/2$ fractional quantum Hall effect. <i>Physical Review B</i> , 2019, 100, .	1.1	15
62	Quench Dynamics of Collective Modes in Fractional Quantum Hall Bilayers. <i>Physical Review Letters</i> , 2021, 126, 076604.	2.9	14
63	Quantifying the Efficiency of State Preparation via Quantum Variational Eigensolvers. <i>PRX Quantum</i> , 2021, 2, .	3.5	13
64	Nonperturbative approach to the quantum Hall bilayer. <i>Physical Review B</i> , 2009, 79, .	1.1	12
65	Meron deconfinement in the quantum Hall bilayer at intermediate distances. <i>Physical Review B</i> , 2015, 92, .	1.1	12
66	Very-High-Energy Collective States of Partons in Fractional Quantum Hall Liquids. <i>Physical Review X</i> , 2022, 12, .	2.8	12
67	Topological Exciton Fermi Surfaces in Two-Component Fractional Quantized Hall Insulators. <i>Physical Review Letters</i> , 2018, 121, 026603.	2.9	11
68	Quantum disordering of the $\nu = 1/2$ state and the compressible-incompressible transition in quantum Hall bilayer systems. <i>Physical Review B</i> , 2007, 75, .	1.1	10
69	Multifaceted machine learning of competing orders in disordered interacting systems. <i>Physical Review B</i> , 2019, 100, .	1.1	10
70	Hypergrid subgraphs and the origin of scarred quantum walks in many-body Hilbert space. <i>Physical Review B</i> , 2022, 105, .	1.1	10
71	Thouless energy across the many-body localization transition in Floquet systems. <i>Physical Review B</i> , 2021, 104, .	1.1	9
72	Quantifying the effect of interactions in quantum many-body systems. , 0, , .		9

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73	Evidence for a topological π -exciton Fermi sea in bilayer graphene. Physical Review B, 2018, 98, .	1.1	8
74	Geometric description of the Kitaev honeycomb lattice model. Physical Review B, 2020, 101, .	1.1	8
75	Strong-Magnetic-Field Magnon Transport in Monolayer Graphene. Physical Review X, 2022, 12, .	2.8	8
76	Stability of the $\nu = 3$ Read-Rezayi state in chiral two-dimensional systems with tunable interactions. New Journal of Physics, 2012, 14, 025009.	1.2	7
77	Electron-solid and electron-liquid phases in graphene. Physical Review B, 2016, 93, .	1.1	7
78	Profiling of microorganism-binding serum antibody specificities in professional athletes. PLoS ONE, 2018, 13, e0203665.	1.1	6
79	Transition from two-component $\nu = 3/2$ Halperin state to one-component Jain state at filling factor $\nu = 5/2$. Physical Review B, 2010, 82, .	1.1	5
80	Interaction distance in the extended XXZ model. Physical Review B, 2019, 100, .	1.1	5
81	π -Wave Pairing in Quantum Hall Bilayers. Advances in Condensed Matter Physics, 2011, 2011, 1-5.	0.4	4
82	DISORDERING OF THE CORRELATED STATE OF THE QUANTUM HALL BILAYER AT FILLING FACTOR $\nu = 1$. Modern Physics Letters B, 2012, 26, 1250134.	1.0	4
83	Emergence of gaussianity in the thermodynamic limit of interacting fermions. Physical Review B, 2021, 104, .	1.1	3
84	Numerical studies of the fractional quantum Hall effect in systems with tunable interactions. Journal of Physics: Conference Series, 2012, 402, 012020.	0.3	2
85	Breakdown of ergodicity in quantum systems: from solids to synthetic matter. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170264.	1.6	1
86	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. Science, 2021, , eabm3770.	6.0	1