

# Zlatko Papic

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6439651/publications.pdf>

Version: 2024-02-01

86  
papers

6,086  
citations

109137

35  
h-index

66788

78  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2488  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2022, 375, 321-326.	6.0	55
2	Very-High-Energy Collective States of Partons in Fractional Quantum Hall Liquids. <i>Physical Review X</i> , 2022, 12, .	2.8	12
3	Bilayer WSe <sub>2</sub> as a natural platform for interlayer exciton condensates in the strong coupling limit. <i>Nature Nanotechnology</i> , 2022, 17, 577-582.	15.6	22
4	Hypergrid subgraphs and the origin of scarred quantum walks in many-body Hilbert space. <i>Physical Review B</i> , 2022, 105, .	1.1	10
5	Strong-Magnetic-Field Magnon Transport in Monolayer Graphene. <i>Physical Review X</i> , 2022, 12, .	2.8	8
6	Extensive Multipartite Entanglement from su(2) Quantum Many-Body Scars. <i>Physical Review Letters</i> , 2022, 129, .	2.9	20
7	Quantifying the Efficiency of State Preparation via Quantum Variational Eigensolvers. <i>PRX Quantum</i> , 2021, 2, .	3.5	13
8	Quench Dynamics of Collective Modes in Fractional Quantum Hall Bilayers. <i>Physical Review Letters</i> , 2021, 126, 076604.	2.9	14
9	Correspondence Principle for Many-Body Scars in Ultracold Rydberg Atoms. <i>Physical Review X</i> , 2021, 11, .	2.8	35
10	Proposal for Realizing Quantum Scars in the Tilted 1D Fermi-Hubbard Model. <i>Physical Review Letters</i> , 2021, 126, 210601.	2.9	42
11	Quantum many-body scars and weak breaking of ergodicity. <i>Nature Physics</i> , 2021, 17, 675-685.	6.5	222
12	Thouless energy across the many-body localization transition in Floquet systems. <i>Physical Review B</i> , 2021, 104, .	1.1	9
13	Emergence of gaussianity in the thermodynamic limit of interacting fermions. <i>Physical Review B</i> , 2021, 104, .	1.1	3
14	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2021, , eabm3770.	6.0	1
15	Quantum scars of bosons with correlated hopping. <i>Communications Physics</i> , 2020, 3, .	2.0	58
16	Geometric description of the Kitaev honeycomb lattice model. <i>Physical Review B</i> , 2020, 101, .	1.1	8
17	Slow Quantum Thermalization and Many-Body Revivals from Mixed Phase Space. <i>Physical Review X</i> , 2020, 10, .	2.8	66
18	Odd- and even-denominator fractional quantum Hall states in monolayer WSe <sub>2</sub> . <i>Nature Nanotechnology</i> , 2020, 15, 569-573.	15.6	48

#	ARTICLE	IF	CITATIONS
19	Quantum scars as embeddings of weakly broken Lie algebra representations. <i>Physical Review B</i> , 2020, 101, .	1.1	61
20	Stabilizing two-dimensional quantum scars by deformation and synchronization. <i>Physical Review Research</i> , 2020, 2, .	1.3	49
21	Systematic Construction of Scarred Many-Body Dynamics in 1D Lattice Models. <i>Physical Review Letters</i> , 2019, 123, 030601.	2.9	77
22	Multifaceted machine learning of competing orders in disordered interacting systems. <i>Physical Review B</i> , 2019, 100, .	1.1	10
23	Emergent SU(2) Dynamics and Perfect Quantum Many-Body Scars. <i>Physical Review Letters</i> , 2019, 122, 220603.	2.9	201
24	Interaction distance in the extended XXZ model. <i>Physical Review B</i> , 2019, 100, .	1.1	5
25	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	5
26	Imaging Anyons with Scanning Tunneling Microscopy. <i>Physical Review X</i> , 2018, 8, .	2.8	23
27	Free-fermion descriptions of parafermion chains and string-net models. <i>Physical Review B</i> , 2018, 97, .	1.1	17
28	Slow dynamics in translation-invariant quantum lattice models. <i>Physical Review B</i> , 2018, 97, .	1.1	34
29	Floquet Mechanism for Non-Abelian Fractional Quantum Hall States. <i>Physical Review Letters</i> , 2018, 121, 237401.	2.9	23
30	Profiling of microorganism-binding serum antibody specificities in professional athletes. <i>PLoS ONE</i> , 2018, 13, e0203665.	1.1	6
31	Geometric quench and nonequilibrium dynamics of fractional quantum Hall states. <i>Physical Review B</i> , 2018, 98, .	1.1	24
32	Quantum scarred eigenstates in a Rydberg atom chain: Entanglement, breakdown of thermalization, and stability to perturbations. <i>Physical Review B</i> , 2018, 98, .	1.1	260
33	Weak ergodicity breaking from quantum many-body scars. <i>Nature Physics</i> , 2018, 14, 745-749.	6.5	537
34	Evidence for a topological $\nu = 1/2$ exciton Fermi sea in bilayer graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	8
35	Topological Exciton Fermi Surfaces in Two-Component Fractional Quantized Hall Insulators. <i>Physical Review Letters</i> , 2018, 121, 026603.	2.9	11
36	Optimal free descriptions of many-body theories. <i>Nature Communications</i> , 2017, 8, 14926.	5.8	21

#	ARTICLE	IF	CITATIONS
37	Fibonacci anyons and charge density order in the 12/5 and 13/5 quantum Hall plateaus. Physical Review B, 2017, 95, .	1.1	34
38	Thouless energy and multifractality across the many-body localization transition. Physical Review B, 2017, 96, .	1.1	103
39	Emergence of chiral spin liquids via quantum melting of noncoplanar magnetic orders. Physical Review B, 2017, 96, .	1.1	23
40	Generalized Pseudopotentials for the Anisotropic Fractional Quantum Hall Effect. Physical Review Letters, 2017, 118, 146403.	2.9	33
41	Recent progress in many-body localization. Annalen Der Physik, 2017, 529, 1700169.	0.9	249
42	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
43	Probing the geometry of the Laughlin state. New Journal of Physics, 2016, 18, 025011.	1.2	33
44	Power-Law Entanglement Spectrum in Many-Body Localized Phases. Physical Review Letters, 2016, 117, 160601.	2.9	92
45	Electron-solid and electron-liquid phases in graphene. Physical Review B, 2016, 93, .	1.1	7
46	Haldane-Hubbard Mott Insulator: From Tetrahedral Spin Crystal to Chiral Spin Liquid. Physical Review Letters, 2016, 116, 137202.	2.9	46
47	Explicit construction of local conserved operators in disordered many-body systems. Physical Review B, 2016, 94, .	1.1	40
48	Competing Abelian and non-Abelian topological orders in $\nu = 1/2$ quantum Hall bilayers. Physical Review B, 2015, 91, .	1.1	36
49	Meron deconfinement in the quantum Hall bilayer at intermediate distances. Physical Review B, 2015, 92, .	1.1	12
50	Criterion for Many-Body Localization-Delocalization Phase Transition. Physical Review X, 2015, 5, .	2.8	206
51	Geometric Construction of Quantum Hall Clustering Hamiltonians. Physical Review X, 2015, 5, .	2.8	28
52	Many-Body Localization in Periodically Driven Systems. Physical Review Letters, 2015, 114, 140401.	2.9	391
53	Many-body localization in disorder-free systems: The importance of finite-size constraints. Annals of Physics, 2015, 362, 714-725.	1.0	85
54	Periodically driven ergodic and many-body localized quantum systems. Annals of Physics, 2015, 353, 196-204.	1.0	300

#	ARTICLE	IF	CITATIONS
55	Single-mode approximation for fractional Chern insulators and the fractional quantum Hall effect on the torus. Physical Review B, 2014, 90, .	1.1	25
56	Quantum quenches in the many-body localized phase. Physical Review B, 2014, 90, .	1.1	146
57	Interferometric Probes of Many-Body Localization. Physical Review Letters, 2014, 113, 147204.	2.9	153
58	Quasiholes of $\nu = 1/3$ fractional quantum Hall states: Size estimates via exact diagonalization and density-matrix renormalization group. Physical Review B, 2014, 89, .	1.1	14
59	Topological Phases in the Zeroth Landau Level of Bilayer Graphene. Physical Review Letters, 2014, 112, 046602.	2.9	43
60	Solvable models for unitary and nonunitary topological phases. Physical Review B, 2014, 90, .	1.1	16
61	Tunable fractional quantum Hall phases in bilayer graphene. Science, 2014, 345, 61-64.	6.0	137
62	Local Conservation Laws and the Structure of the Many-Body Localized States. Physical Review Letters, 2013, 111, 127201.	2.9	687
63	Matrix product states for trial quantum Hall states. Physical Review B, 2013, 87, .	1.1	51
64	Fractional quantum Hall effect in a tilted magnetic field. Physical Review B, 2013, 87, .	1.1	41
65	Universal Slow Growth of Entanglement in Interacting Strongly Disordered Systems. Physical Review Letters, 2013, 110, 260601.	2.9	459
66	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
67	Model Wave Functions for the Collective Modes and the Magneton Theory of the Fractional Quantum Hall Effect. Physical Review Letters, 2012, 108, 256807.	2.9	71
68	DISORDERING OF THE CORRELATED STATE OF THE QUANTUM HALL BILAYER AT FILLING FACTOR $\hat{\nu} = 1$ . Modern Physics Letters B, 2012, 26, 1250134.	1.0	4
69	Numerical studies of the fractional quantum Hall effect in systems with tunable interactions. Journal of Physics: Conference Series, 2012, 402, 012020.	0.3	2
70	Quantum Phase Transitions and the $\nu = 5/2$ Fractional Quantum Hall State in Wide Quantum Wells. Physical Review Letters, 2012, 109, 266806.	2.9	32
71	Band mass anisotropy and the intrinsic metric of fractional quantum Hall systems. Physical Review B, 2012, 85, .	1.1	87
72	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.	0.9	27

#	ARTICLE	IF	CITATIONS
73	-Wave Pairing in Quantum Hall Bilayers. <i>Advances in Condensed Matter Physics</i> , 2011, 2011, 1-5.	0.4	4
74	Topological Entanglement in Abelian and Non-Abelian Excitation Eigenstates. <i>Physical Review Letters</i> , 2011, 106, 056801.	2.9	35
75	Tunable interactions and phase transitions in Dirac materials in a magnetic field. <i>Physical Review B</i> , 2011, 84, .	1.1	35
76	Tunable Electron Interactions and Fractional Quantum Hall States in Graphene. <i>Physical Review Letters</i> , 2011, 107, 176602.	2.9	31
77	Atypical Fractional Quantum Hall Effect in Graphene at Filling Factor $\nu = 1/3$ . <i>Physical Review Letters</i> , 2010, 105, 176802.	2.9	37
78	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
79	Transition from two-component $\nu = 3/2$ Halperin state to one-component Jain state at filling factor $\nu = 5/2$ . <i>Physical Review B</i> , 2010, 82, .	1.1	5
80	Tunneling-driven breakdown of the $\nu = 3/2$ state and the emergent Pfaffian and composite Fermi liquid phases. <i>Physical Review B</i> , 2010, 82, .	1.1	26
81	Fractional quantum Hall state at $\nu = 1/4$ in a wide quantum well. <i>Physical Review B</i> , 2009, 79, .	1.1	32
82	Nonperturbative approach to the quantum Hall bilayer. <i>Physical Review B</i> , 2009, 79, .	1.1	12
83	Interaction-tuned compressible-to-incompressible phase transitions in quantum Hall systems. <i>Physical Review B</i> , 2009, 80, .	1.1	37
84	Theoretical expectations for a fractional quantum Hall effect in graphene. <i>Solid State Communications</i> , 2009, 149, 1056-1060.	0.9	23
85	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
86	Quantifying the effect of interactions in quantum many-body systems. , 0, , .		9