

Michael P Zaletel

List of Publications by Year in descending order

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52
papers

3,324
citations

168829

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198040

52
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52
all docs

52
docs citations

52
times ranked

2993
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	Preparation of Low Entropy Correlated Many-Body States via Conformal Cooling Quenches. <i>Physical Review Letters</i> , 2021, 126, 103401.	2.9	6
3	Universal Tripartite Entanglement in One-Dimensional Many-Body Systems. <i>Physical Review Letters</i> , 2021, 126, 120501.	2.9	23
4	Experimental Determination of the Energy per Particle in Partially Filled Landau Levels. <i>Physical Review Letters</i> , 2021, 126, 156802.	2.9	24
5	Performance of the rigorous renormalization group for first-order phase transitions and topological phases. <i>Physical Review B</i> , 2021, 103, .	1.1	5
6	Visualizing delocalized correlated electronic states in twisted double bilayer graphene. <i>Nature Communications</i> , 2021, 12, 2516.	5.8	30
7	Charged skyrmions and topological origin of superconductivity in magic-angle graphene. <i>Science Advances</i> , 2021, 7, .	4.7	109
8	Strain-Induced Quantum Phase Transitions in Magic-Angle Graphene. <i>Physical Review Letters</i> , 2021, 127, 027601.	2.9	67
9	Phases of the (2+1) Dimensional SO(5) Nonlinear Sigma Model with Topological Term. <i>Physical Review Letters</i> , 2021, 126, 045701.	2.9	29
10	Visualizing broken symmetry and topological defects in a quantum Hall ferromagnet. <i>Science</i> , 2021, , eabm3770.	6.0	1
11	Energetics of Pfaffian-anti-Pfaffian domains. <i>Physical Review B</i> , 2020, 101, .	1.1	23
12	Ground State and Hidden Symmetry of Magic-Angle Graphene at Even Integer Filling. <i>Physical Review X</i> , 2020, 10, .	2.8	184
13	Efficient simulation of moiré materials using the density matrix renormalization group. <i>Physical Review B</i> , 2020, 102, .	1.1	76
14	Isometric tensor network representation of string-net liquids. <i>Physical Review B</i> , 2020, 101, .	1.1	20
15	Glide-resolved photoemission spectroscopy: Measuring topological invariants in nonsymmorphic space groups. <i>Physical Review B</i> , 2020, 101, .	1.1	2
16	Classical discrete time crystals. <i>Nature Physics</i> , 2020, 16, 438-447.	6.5	85
17	Isometric Tensor Network States in Two Dimensions. <i>Physical Review Letters</i> , 2020, 124, 037201.	2.9	54
18	Symmetry breaking and skyrmionic transport in twisted bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	55

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19	Mechanism for Anomalous Hall Ferromagnetism in Twisted Bilayer Graphene. Physical Review Letters, 2020, 124, 166601.	2.9	231
20	Flat-band topology of magic angle graphene on a transition metal dichalcogenide. Physical Review B, 2020, 102, .	1.1	13
21	Chiral Spin Liquid Phase of the Triangular Lattice Hubbard Model: A Density Matrix Renormalization Group Study. Physical Review X, 2020, 10, .	2.8	107
22	Majorana lattices from the quantized Hall limit of a proximitized spin-orbit coupled electron gas. Physical Review B, 2019, 99, .	1.1	4
23	Three-dimensional superconductors with hybrid higher-order topology. Physical Review B, 2019, 99, .	1.1	47
24	Fractional Chern insulator edges and layer-resolved lattice contacts. Physical Review B, 2019, 99, .	1.1	7
25	Imaging stress and magnetism at high pressures using a nanoscale quantum sensor. Science, 2019, 366, 1349-1354.	6.0	129
26	Imaging Anyons with Scanning Tunneling Microscopy. Physical Review X, 2018, 8, .	2.8	23
27	Observation of fractional Chern insulators in a van der Waals heterostructure. Science, 2018, 360, 62-66.	6.0	147
28	Entanglement of purification: from spin chains to holography. Journal of High Energy Physics, 2018, 2018, 1.	1.6	147
29	Quantum dynamics of thermalizing systems. Physical Review B, 2018, 97, .	1.1	72
30	Finding purifications with minimal entanglement. Physical Review B, 2018, 98, .	1.1	38
31	Half-filled Landau levels: A continuum and sign-free regularization for three-dimensional quantum critical points. Physical Review B, 2018, 98, .	1.1	24
32	Evidence for a topological π -exciton Fermi sea in bilayer graphene. Physical Review B, 2018, 98, .	1.1	8
33	Emergent Multi-Flavor QED^3 at the Plateau Transition between Fractional Chern Insulators: Applications to Graphene Heterostructures. Physical Review X, 2018, 8, .	2.8	25
34	Direct measurement of discrete valley and orbital quantum numbers in bilayer graphene. Nature Communications, 2017, 8, 948.	5.8	71
35	Lattice Homotopy Constraints on Phases of Quantum Magnets. Physical Review Letters, 2017, 119, 127202.	2.9	51
36	The half-filled Landau level: The case for Dirac composite fermions. Science, 2016, 352, 197-201.	6.0	111

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37	Filling-Enforced Gaplessness in Band Structures of the 230 Space Groups. Physical Review Letters, 2016, 117, 096404.	2.9	115
38	Filling-enforced quantum band insulators in spin-orbit coupled crystals. Science Advances, 2016, 2, e1501782.	4.7	36
39	Space Group Symmetry Fractionalization in a Chiral Kagome Heisenberg Antiferromagnet. Physical Review Letters, 2016, 116, 197203.	2.9	15
40	Time-evolving a matrix product state with long-ranged interactions. Physical Review B, 2015, 91, .	1.1	183
41	Characterization and stability of a fermionic Chern insulator. Physical Review B, 2015, 91, .	1.1	151
42	Constraints on Topological Order in Mott Insulators. Physical Review Letters, 2015, 114, 077201.	2.9	47
43	Infinite density matrix renormalization group for multicomponent quantum Hall systems. Physical Review B, 2015, 91, .	1.1	118
44	Filling constraints for spin-orbit coupled insulators in symmorphic and nonsymmorphic crystals. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14551-14556.	3.3	136
45	Flux insertion, entanglement, and quantized responses. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P10007.	0.9	43
46	Chiral bosonic Mott insulator on the frustrated triangular lattice. Physical Review B, 2014, 89, .	1.1	30
47	Topological Characterization of Fractional Quantum Hall Ground States from Microscopic Hamiltonians. Physical Review Letters, 2013, 110, 236801.	2.9	161
48	Phase diagram of the anisotropic spin-2 XXZ model: Infinite-system density matrix renormalization group study. Physical Review B, 2013, 87, .	1.1	115
49	Chiral Luttinger liquids and a generalized Luttinger theorem in fractional quantum Hall edges via finite-entanglement scaling. Physical Review B, 2013, 88, .	1.1	12
50	Exact matrix product states for quantum Hall wave functions. Physical Review B, 2012, 86, .	1.1	84
51	Logarithmic Terms in Entanglement Entropies of 2D Quantum Critical Points and Shannon Entropies of Spin Chains. Physical Review Letters, 2011, 107, 020402.	2.9	59
52	Quantum Corral Resonance Widths: Lossy Scattering as Acoustics. Nano Letters, 2010, 10, 3253-3260.	4.5	16