

Emil J Bergholtz

List of Publications by Year in descending order

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73
papers

5,517
citations

126708

33
h-index

82410

72
g-index

75
all docs

75
docs citations

75
times ranked

2859
citing authors

#	ARTICLE	IF	CITATIONS
1	Covid-19: An urgent call for global "vaccines-plus" action. <i>BMJ</i> , The, 2022, 376, o1.	3.0	19
2	Liouvillian skin effect in an exactly solvable model. <i>Physical Review Research</i> , 2022, 4, .	1.3	22
3	Gate-Tunable Fractional Chern Insulators in Twisted Double Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 126, 026801.	2.9	29
4	Synchronization in epidemic growth and the impossibility of selective containment. <i>Mathematical Medicine and Biology</i> , 2021, 38, 467-473.	0.8	0
5	Exceptional Spin Liquids from Couplings to the Environment. <i>Physical Review Letters</i> , 2021, 126, 077201.	2.9	30
6	Exceptional topology of non-Hermitian systems. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	680
7	Symmetry and Higher-Order Exceptional Points. <i>Physical Review Letters</i> , 2021, 127, 186601.	2.9	85
8	Dissipative preparation of fractional Chern insulators. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
9	Classification of exceptional nodal topologies protected by PT symmetry. <i>Physical Review B</i> , 2021, 104, .	1.1	24
10	Non-Hermitian Topological Sensors. <i>Physical Review Letters</i> , 2020, 125, 180403.	2.9	157
11	Particle-Hole Duality, Emergent Fermi Liquids, and Fractional Chern Insulators in Moiré Flatbands. <i>Physical Review Letters</i> , 2020, 124, 106803.	2.9	99
12	Magneto-optical conductivity in generic Weyl semimetals. <i>Physical Review B</i> , 2020, 102, .	1.1	9
13	Phase transitions and generalized biorthogonal polarization in non-Hermitian systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	29
14	Black and white holes at material junctions. <i>Physical Review Research</i> , 2020, 2, .	1.3	27
15	Corner states of light in photonic waveguides. <i>Nature Photonics</i> , 2019, 13, 697-700.	15.6	304
16	Symmetry-protected nodal phases in non-Hermitian systems. <i>Physical Review B</i> , 2019, 99, .	1.1	183
17	Fractional quantum Hall states with gapped boundaries in an extreme lattice limit. <i>Physical Review B</i> , 2019, 99, .	1.1	2
18	Knotted non-Hermitian metals. <i>Physical Review B</i> , 2019, 99, .	1.1	93

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19	Mixed Axial-Torsional Anomaly in Weyl Semimetals. Physical Review Letters, 2019, 122, 056601.	2.9	42
20	Non-Hermitian extensions of higher-order topological phases and their biorthogonal bulk-boundary correspondence. Physical Review B, 2019, 99, .	1.1	181
21	Boundaries of boundaries: A systematic approach to lattice models with solvable boundary states of arbitrary codimension. Physical Review B, 2019, 99, .	1.1	21
22	Extended Bloch theorem for topological lattice models with open boundaries. Physical Review B, 2019, 99, .	1.1	22
23	Non-Hermitian Weyl physics in topological insulator ferromagnet junctions. Physical Review Research, 2019, 1, .	1.3	76
24	Symmetry-enforced stability of interacting Weyl and Dirac semimetals. Physical Review B, 2018, 97, .	1.1	9
25	Strongly interacting Weyl semimetals: Stability of the semimetallic phase and emergence of almost free fermions. Physical Review B, 2018, 98, .	1.1	13
26	Exceptional links and twisted Fermi ribbons in non-Hermitian systems. Physical Review A, 2018, 98, .	1.0	120
27	Biorthogonal Bulk-Boundary Correspondence in Non-Hermitian Systems. Physical Review Letters, 2018, 121, 026808.	2.9	799
28	Lattice models with exactly solvable topological hinge and corner states. Physical Review B, 2018, 97, .	1.1	116
29	Quantum oscillations and magnetoresistance in type-II Weyl semimetals: Effect of a field-induced charge density wave. Physical Review B, 2018, 98, .	1.1	7
30	Josephson effect in a Weyl SNS junction. Physical Review B, 2017, 95, .	1.1	29
31	Disordered double Weyl node: Comparison of transport and density of states calculations. Physical Review B, 2017, 95, .	1.1	24
32	Anatomy of topological surface states: Exact solutions from destructive interference on frustrated lattices. Physical Review B, 2017, 96, .	1.1	27
33	Exotic Non-Abelian Topological Defects in Lattice Fractional Quantum Hall States. Physical Review Letters, 2017, 119, 106801.	2.9	11
34	Interacting Majorana chain: Transport properties and signatures of an emergent two-dimensional weak topological phase. Physical Review B, 2017, 96, .	1.1	3
35	Charge density wave instabilities of type-II Weyl semimetals in a strong magnetic field. Physical Review B, 2017, 96, .	1.1	16
36	Tilted disordered Weyl semimetals. Physical Review B, 2017, 95, .	1.1	25

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37	Composite symmetry-protected topological order and effective models. Physical Review B, 2017, 96, .	1.1	3
38	Field-Selective Anomaly and Chiral Mode Reversal in Type-II Weyl Materials. Physical Review Letters, 2016, 117, 086401.	2.9	145
39	Model Fractional Chern Insulators. Physical Review Letters, 2016, 116, 216802.	2.9	20
40	Quantum transport in Dirac materials: Signatures of tilted and anisotropic Dirac and Weyl cones. Physical Review B, 2015, 91, .	1.1	114
41	Quantum critical exponents for a disordered three-dimensional Weyl node. Physical Review B, 2015, 92, .	1.1	57
42	Topology and Interactions in a Frustrated Slab: Tuning from Weyl Semimetals to Fractional Chern Insulators. Physical Review Letters, 2015, 114, 016806.	2.9	60
43	Quantum Transport of Disordered Weyl Semimetals at the Nodal Point. Physical Review Letters, 2014, 113, 026602.	2.9	151
44	Search for localized Wannier functions of topological band structures via compressed sensing. Physical Review B, 2014, 90, .	1.1	14
45	Correlations and entanglement in flat band models with variable Chern numbers. Journal of Statistical Mechanics: Theory and Experiment, 2014, 2014, P10012.	0.9	14
46	Topological insulators with arbitrarily tunable entanglement. Physical Review B, 2014, 89, .	1.1	7
47	Topological equivalence of crystal and quasicrystal band structures. Physical Review B, 2013, 88, .	1.1	60
48	TOPOLOGICAL FLAT BAND MODELS AND FRACTIONAL CHERN INSULATORS. International Journal of Modern Physics B, 2013, 27, 1330017.	1.0	340
49	From fractional Chern insulators to Abelian and non-Abelian fractional quantum Hall states: Adiabatic continuity and orbital entanglement spectrum. Physical Review B, 2013, 87, .	1.1	37
50	Hierarchy of Fractional Chern Insulators and Competing Compressible States. Physical Review Letters, 2013, 111, 126802.	2.9	61
51	Bulk-edge correspondence in fractional Chern insulators. Physical Review B, 2013, 88, .	1.1	33
52	Non-Abelian fractional Chern insulators from long-range interactions. Physical Review B, 2013, 88, .	1.1	30
53	Fractional domain walls from on-site softening in dipolar bosons. Physical Review A, 2012, 85, .	1.0	10
54	Exactly Solvable Fermion Chain Describing a Quantum Hall State. Physical Review Letters, 2012, 109, 016401.	2.9	39

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55	Edge-mode combinations in the entanglement spectra of non-Abelian fractional quantum Hall states on the torus. <i>Physical Review B</i> , 2012, 85, .	1.1	25
56	Fractional Chern Insulators in Topological Flat Bands with Higher Chern Number. <i>Physical Review Letters</i> , 2012, 109, 186805.	2.9	139
57	Flat bands with higher Chern number in pyrochlore slabs. <i>Physical Review B</i> , 2012, 86, .	1.1	96
58	Beyond the Tao-Thouless limit of the fractional quantum Hall effect: spin chains and Fermi surface deformation. <i>Journal of Physics: Conference Series</i> , 2011, 302, 012020.	0.3	7
59	Effective spin chains for fractional quantum Hall states. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 755-760.	1.3	14
60	Link between the hierarchy of fractional quantum Hall states and Haldane's conjecture for quantum spin chains. <i>Physical Review B</i> , 2010, 81, .	1.1	10
61	Entanglement scaling of fractional quantum Hall states through geometric deformations. <i>New Journal of Physics</i> , 2010, 12, 075004.	1.2	31
62	Disentangling Entanglement Spectra of Fractional Quantum Hall States on Torus Geometries. <i>Physical Review Letters</i> , 2010, 104, 156404.	2.9	119
63	Symmetry Breaking on the Three-Dimensional Hyperkagome Lattice of $\langle \mathbb{Z}_2 \times \mathbb{Z}_2 \times \mathbb{Z}_2 \rangle$. <i>Physical Review Letters</i> , 2010, 105, 237202.	1.4	34
64	Quantum Hall Circle. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P04015.	0.9	6
65	Spin chain description of rotating bosons at $\hat{\nu} = 1$. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2009, 2009, P07038.	0.9	9
66	Degeneracy of non-Abelian quantum Hall states on the torus: domain walls and conformal field theory. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2008, 2008, P04016.	0.9	47
67	Quantum Hall system in Tao-Thouless limit. <i>Physical Review B</i> , 2008, 77, .	1.1	101
68	Quantum Hall hierarchy wave functions: From conformal correlators to Tao-Thouless states. <i>Physical Review B</i> , 2008, 77, .	1.1	24
69	Quantum Hall wave functions on the torus. <i>Physical Review B</i> , 2008, 77, .	1.1	27
70	Microscopic Theory of the Quantum Hall Hierarchy. <i>Physical Review Letters</i> , 2007, 99, 256803.	2.9	49
71	One-dimensional theory of the quantum Hall system. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, 2006, L04001-L04001.	0.9	70
72	Pfaffian quantum Hall state made simple: Multiple vacua and domain walls on a thin torus. <i>Physical Review B</i> , 2006, 74, .	1.1	70

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73	Half-Filled Lowest Landau Level on a Thin Torus. Physical Review Letters, 2005, 94, 026802.	2.9	102