Jan Carl Budich

List of Publications by Year
in descending order

38	3,128	331670	315739
papers	citations	21 h-index	38 g-index

39	39	39	1752
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biorthogonal Bulk-Boundary Correspondence in Non-Hermitian Systems. Physical Review Letters, 2018, 121, 026808.	7.8	799
2	Exceptional topology of non-Hermitian systems. Reviews of Modern Physics, 2021, 93, .	45.6	680
3	Symmetry-protected nodal phases in non-Hermitian systems. Physical Review B, 2019, 99, .	3.2	183
4	Dynamical topological order parameters far from equilibrium. Physical Review B, 2016, 93, .	3.2	174
5	Non-Hermitian Topological Sensors. Physical Review Letters, 2020, 125, 180403.	7.8	157
6	Majorana Bound States and Nonlocal Spin Correlations in a Quantum Wire on an Unconventional Superconductor. Physical Review Letters, 2013, 110, 117002.	7.8	110
7	Knotted non-Hermitian metals. Physical Review B, 2019, 99, .	3.2	93
8	Dissipative preparation of Chern insulators. Physical Review A, 2015, 91, .	2.5	85
9	Dynamical Buildup of a Quantized Hall Response from Nontopological States. Physical Review Letters, 2016, 117, 126803.	7.8	81
10	Topology of density matrices. Physical Review B, 2015, 91, .	3.2	78
11	Non-Hermitian Weyl physics in topological insulator ferromagnet junctions. Physical Review Research, 2019, 1, .	3.6	76
12	Fluctuation-driven topological Hund insulators. Physical Review B, 2013, 87, .	3.2	65
13	From the adiabatic theorem of quantum mechanics to topological states of matter. Physica Status Solidi - Rapid Research Letters, 2013, 7, 109-129.	2.4	65
14	Bulk-boundary correspondence in non-Hermitian systems: stability analysis for generalized boundary conditions. European Physical Journal D, 2020, 74, 1.	1.3	49
15	Measuring a dynamical topological order parameter in quantum walks. Light: Science and Applications, 2020, 9, 7.	16.6	46
16	Time Reversal Symmetric Topological Exciton Condensate in Bilayer HgTe Quantum Wells. Physical Review Letters, 2014, 112, 146405.	7.8	41
17	Simulating Exceptional Non-Hermitian Metals with Single-Photon Interferometry. Physical Review Letters, 2021, 127, 026404.	7.8	40
18	Quantum non-Hermitian topological sensors. Physical Review Research, 2022, 4, .	3.6	32

#	Article	IF	Citations
19	Helical Floquet Channels in 1D Lattices. Physical Review Letters, 2017, 118, 105302.	7.8	28
20	Topological invariant for generic one-dimensional time-reversal-symmetric superconductors in class DIII. Physical Review B, 2013, 88, .	3.2	26
21	Generalized transfer matrix states from artificial neural networks. Physical Review B, 2019, 99, .	3.2	24
22	Resolution evaluation of MR images reconstructed by iterative thresholding algorithms for compressed sensing. Medical Physics, 2012, 39, 4328-4338.	3.0	20
23	Quench dynamics and Hall response of interacting Chern insulators. Physical Review B, 2019, 100, .	3.2	19
24	Entanglement of nanoelectromechanical oscillators by Cooper-pair tunneling. Physical Review B, 2013, 88, .	3.2	18
25	Signatures of topology in quantum quench dynamics and their interrelation. Physical Review Research, 2020, 2, .	3.6	18
26	Unpaired Weyl Nodes from Long-Ranged Interactions: Fate of Quantum Anomalies. Physical Review Letters, 2019, 122, 046402.	7.8	15
27	First-order topological quantum phase transition in a strongly correlated ladder. Physical Review B, 2019, 99, .	3.2	15
28	Hyperbolic nodal band structures and knot invariants. SciPost Physics, 2019, 7, .	4.9	15
29	Stability of dynamical quantum phase transitions in quenched topological insulators: From multiband to disordered systems. Physical Review B, 2019, 100, .	3.2	14
30	Dynamical equilibration of topological properties. Physical Review B, 2018, 98, .	3.2	10
31	Dissipative preparation of fractional Chern insulators. Physical Review Research, 2021, 3, .	3.6	9
32	Disentangling sources of quantum entanglement in quench dynamics. Physical Review Research, 2019, 1, .	3.6	8
33	Interacting topological frequency converter. Physical Review Research, 2020, 2, .	3.6	8
34	Teleportation-induced entanglement of two nanomechanical oscillators coupled to a topological superconductor. Physical Review B, 2014, 89, .	3.2	7
35	Topological aspects ofÏ€phase winding junctions in superconducting wires. Journal of Physics Condensed Matter, 2015, 27, 405701.	1.8	6
36	Exceptional non-Hermitian phases in disordered quantum wires. Physical Review B, 2021, 104, .	3.2	6

#	Article	IF	Citations
37	Dynamically Induced Exceptional Phases in Quenched Interacting Semimetals. Physical Review Letters, 2021, 127, 106601.	7.8	5
38	Mesoscopic transport signatures of disorder-induced non-Hermitian phases. Physical Review Research, 2022, 4, .	3.6	3