

Ching Hua Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7511234/publications.pdf>

Version: 2024-02-01

66
papers

4,687
citations

136885

32
h-index

106281

65
g-index

72
all docs

72
docs citations

72
times ranked

1913
citing authors

#	ARTICLE	IF	CITATIONS
1	Topoelectrical-circuit realization of topological corner modes. Nature Physics, 2018, 14, 925-929.	6.5	776
2	Anatomy of skin modes and topology in non-Hermitian systems. Physical Review B, 2019, 99, .	1.1	483
3	Topoelectrical Circuits. Communications Physics, 2018, 1, .	2.0	364
4	Hybrid Higher-Order Skin-Topological Modes in Nonreciprocal Systems. Physical Review Letters, 2019, 123, 016805.	2.9	284
5	Reciprocal skin effect and its realization in a topoelectrical circuit. Physical Review Research, 2020, 2, .	1.3	230
6	Critical non-Hermitian skin effect. Nature Communications, 2020, 11, 5491.	5.8	205
7	Chiral Voltage Propagation and Calibration in a Topoelectrical Chern Circuit. Physical Review Letters, 2019, 122, 247702.	2.9	199
8	Topological Switch for Non-Hermitian Skin Effect in Cold-Atom Systems with Loss. Physical Review Letters, 2020, 124, 250402.	2.9	160
9	Observation of hybrid higher-order skin-topological effect in non-Hermitian topoelectrical circuits. Nature Communications, 2021, 12, 7201.	5.8	144
10	Band structure engineering and reconstruction in electric circuit networks. Physical Review B, 2019, 99, .	1.1	110
11	Efficient Ohmic contacts and built-in atomic sublayer protection in MoSi ₂ N ₄ and WSi ₂ N ₄ monolayers. Npj 2D Materials and Applications, 2021, 5, .	3.9	98
12	Topologically enhanced harmonic generation in a nonlinear transmission line metamaterial. Nature Communications, 2019, 10, 1102.	5.8	95
13	Topological Defect Engineering and $\langle P \rangle < T \rangle$ Symmetry in Non-Hermitian Electrical Circuits. Physical Review Letters, 2021, 126, 215302.	2.9	88
14	Position-Momentum Duality and Fractional Quantum Hall Effect in Chern Insulators. Physical Review Letters, 2015, 114, 236802.	2.9	73
15	Unraveling non-Hermitian pumping: Emergent spectral singularities and anomalous responses. Physical Review B, 2020, 102, .	1.1	70
16	Geometric characterization of non-Hermitian topological systems through the singularity ring in pseudospin vector space. Physical Review B, 2019, 100, .	1.1	61
17	Emergent Fermi surface in a many-body non-Hermitian fermionic chain. Physical Review B, 2020, 102, .	1.1	61
18	Realistic Floquet Semimetal with Exotic Topological Linkages between Arbitrarily Many Nodal Loops. Physical Review Letters, 2018, 121, 036401.	2.9	58

#	ARTICLE	IF	CITATIONS
19	Imaging nodal knots in momentum space through topoelectrical circuits. Nature Communications, 2020, 11, 4385.	5.8	56
20	Pseudopotential formalism for fractional Chern insulators. Physical Review B, 2013, 88, .	1.1	52
21	Band structure engineering of ideal fractional Chern insulators. Physical Review B, 2017, 96, .	1.1	52
22	Impurity induced scale-free localization. Communications Physics, 2021, 4, .	2.0	52
23	Ultrafast and anharmonic Rabi oscillations between non-Bloch bands. Communications Physics, 2020, 3, .	2.0	41
24	Quantized classical response from spectral winding topology. Nature Communications, 2021, 12, 5294.	5.8	40
25	Tidal surface states as fingerprints of non-Hermitian nodal knot metals. Communications Physics, 2021, 4, .	2.0	39
26	Nonlinearity induced topological physics in momentum space and real space. Physical Review B, 2020, 102, .	1.1	38
27	Lattice construction of pseudopotential Hamiltonians for fractional Chern insulators. Physical Review B, 2014, 90, .	1.1	36
28	Band flatness optimization through complex analysis. Physical Review B, 2016, 93, .	1.1	36
29	Line nodes, Dirac points, and Lifshitz transition in two-dimensional nonsymmorphic photonic crystals. Physical Review B, 2017, 96, .	1.1	34
30	Many-body topological and skin states without open boundaries. Physical Review B, 2021, 104, .	1.1	34
31	Free-fermion entanglement spectrum through Wannier interpolation. Physical Review B, 2015, 91, .	1.1	33
32	Exact holographic mapping in free fermion systems. Physical Review B, 2016, 93, .	1.1	33
33	Generalized Pseudopotentials for the Anisotropic Fractional Quantum Hall Effect. Physical Review Letters, 2017, 118, 146403.	2.9	33
34	Electromagnetic response of quantum Hall systems in dimensions five and six and beyond. Physical Review B, 2018, 98, .	1.1	33
35	Emergence and full 3D-imaging of nodal boundary Seifert surfaces in 4D topological matter. Communications Physics, 2019, 2, .	2.0	33
36	Holographic duality between quantum anomalous Hall state and topological insulators. Physical Review B, 2016, 94, .	1.1	31

#	ARTICLE	IF	CITATIONS
37	Geometric Construction of Quantum Hall Clustering Hamiltonians. <i>Physical Review X</i> , 2015, 5, .	2.8	28
38	Exceptional Bound States and Negative Entanglement Entropy. <i>Physical Review Letters</i> , 2022, 128, 010402.	2.9	27
39	Non-Hermitian pseudo-gaps. <i>Science Bulletin</i> , 2022, 67, 685-690.	4.3	26
40	Position-momentum duality in the entanglement spectrum of free fermions. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014, 2014, P10023.	0.9	25
41	Photoinduced half-integer quantized conductance plateaus in topological-insulator/superconductor heterostructures. <i>Physical Review B</i> , 2018, 97, .	1.1	25
42	Negative differential resistance and characteristic nonlinear electromagnetic response of a Topological Insulator. <i>Scientific Reports</i> , 2015, 5, 18008.	1.6	23
43	Anharmonic interatomic force constants and thermal conductivity from Grüneisen parameters: An application to graphene. <i>Physical Review B</i> , 2017, 96, .	1.1	23
44	Floquet Mechanism for Non-Abelian Fractional Quantum Hall States. <i>Physical Review Letters</i> , 2018, 121, 237401.	2.9	23
45	Topological dynamics of gyroscopic and Floquet lattices from Newton's laws. <i>Physical Review B</i> , 2018, 97, .	1.1	22
46	Transport and localization in a topological phononic lattice with correlated disorder. <i>Physical Review B</i> , 2016, 94, .	1.1	19
47	Anisotropic pseudopotential characterization of quantum Hall systems under a tilted magnetic field. <i>Physical Review B</i> , 2017, 96, .	1.1	18
48	Exact Mapping from Singular-Value Spectrum of Fractal Images to Entanglement Spectrum of One-Dimensional Quantum Systems. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 013001.	0.7	17
49	Enhanced higher harmonic generation from nodal topology. <i>Physical Review B</i> , 2020, 102, .	1.1	16
50	Critical hybridization of skin modes in coupled non-Hermitian chains. <i>Physical Review Research</i> , 2022, 4, .	1.3	16
51	Stabilizing multiple topological fermions on a quantum computer. <i>Npj Quantum Information</i> , 2022, 8, .	2.8	13
52	Simple model for multiple-choice collective decision making. <i>Physical Review E</i> , 2014, 90, 052804.	0.8	12
53	Filling up complex spectral regions through non-Hermitian disordered chains. <i>Chinese Physics B</i> , 2022, 31, 050307.	0.7	11
54	Anharmonic phonon effects on linear thermal expansion of trigonal bismuth selenide and antimony telluride crystals. <i>Computational Materials Science</i> , 2018, 151, 49-52.	1.4	10

#	ARTICLE	IF	CITATIONS
55	Entangled four-dimensional multicomponent topological states from photonic crystal defects. Physical Review B, 2019, 100, .	1.1	10
56	Multistable binary decision making on networks. Physical Review E, 2013, 87, .	0.8	7
57	Diagnosis of pairing symmetry by vortex and edge spectra in kagome superconductors. Physical Review B, 2022, 105, .	1.1	7
58	Generalized exact holographic mapping with wavelets. Physical Review B, 2017, 96, .	1.1	6
59	Topological corner modes in a brick lattice with nonsymmorphic symmetry. Physical Review B, 2020, 102, .	1.1	6
60	Real non-Hermitian energy spectra without any symmetry. Chinese Physics B, 2022, 31, 070308.	0.7	6
61	Random-fractal Ansatz for the configurations of two-dimensional critical systems. Physical Review E, 2016, 94, 062144.	0.8	5
62	Comment on "Snapshot Spectrum and Critical Phenomenon for Two-Dimensional Classical Spin Systems". J. Phys. Soc. Jpn. 83, 114002 (2014)]. Journal of the Physical Society of Japan, 2016, 85, 086001.	0.7	5
63	Anisotropic nonlinear optical response of nodal-loop materials. Physical Review B, 2021, 103, .	1.1	5
64	Composing Music with Grammar Argumented Neural Networks and Note-Level Encoding. , 2018, , .		3
65	Quenched topological boundary modes can persist in a trivial system. Communications Physics, 2021, 4, .	2.0	2
66	Exact mapping from singular value spectrum of a class of fractal images to entanglement spectrum of one-dimensional free fermions. AIP Conference Proceedings, 2015, , .	0.3	0