

Daniel Leykam

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6505679/publications.pdf>

Version: 2024-02-01

47
papers

3,307
citations

257450

24
h-index

223800

46
g-index

47
all docs

47
docs citations

47
times ranked

2210
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear compact localized modes in flux-dressed octagonal-diamond lattice. <i>Physica Scripta</i> , 2022, 97, 030006.	2.5	1
2	Nonlinear signatures of Floquet band topology. <i>Physical Review B</i> , 2022, 105, .	3.2	4
3	Anomalous Single-Mode Lasing Induced by Nonlinearity and the Non-Hermitian Skin Effect. <i>Physical Review Letters</i> , 2022, 129, .	7.8	35
4	Probing Band Topology Using Modulational Instability. <i>Physical Review Letters</i> , 2021, 126, 073901.	7.8	17
5	Probing bulk topological invariants using leaky photonic lattices. <i>Nature Physics</i> , 2021, 17, 632-638.	16.7	25
6	Nonlinear Bloch wave dynamics in photonic Aharonovâ€“Bohm cages. <i>APL Photonics</i> , 2021, 6, .	5.7	4
7	Photonic band structure design using persistent homology. <i>APL Photonics</i> , 2021, 6, 030802.	5.7	11
8	Gradient catastrophe of nonlinear photonic valley-Hall edge pulses. <i>Physical Review Research</i> , 2021, 3, .	3.6	12
9	Quantum transient heat transport in the hyperparametric oscillator. <i>Physical Review A</i> , 2021, 104, .	2.5	1
10	Edge modes in two-dimensional electromagnetic slab waveguides: Analogs of acoustic plasmons. <i>Physical Review B</i> , 2020, 102, .	3.2	13
11	Nontrivial coupling of light into a defect: the interplay of nonlinearity and topology. <i>Light: Science and Applications</i> , 2020, 9, 147.	16.6	74
12	Special Issue on â€œTopological photonics and beyond: novel concepts and recent advancesâ€. <i>Light: Science and Applications</i> , 2020, 9, 203.	16.6	6
13	Direct Observation of Flatband Loop States Arising from Nontrivial Real-Space Topology. <i>Physical Review Letters</i> , 2020, 124, 183901.	7.8	45
14	Nonlinear topological photonics. <i>Applied Physics Reviews</i> , 2020, 7, .	11.3	344
15	Acoustic vortex beams in synthetic magnetic fields. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 104001.	1.8	11
16	Flatband Line States in Photonic Superâ€“Honeycomb Lattices. <i>Advanced Optical Materials</i> , 2020, 8, 1902174.	7.3	24
17	Influence of different disorder types on Aharonov-Bohm caging in the diamond chain. <i>Physical Review A</i> , 2020, 101, .	2.5	12
18	Universal momentum-to-real-space mapping of topological singularities. <i>Nature Communications</i> , 2020, 11, 1586.	12.8	20

#	ARTICLE	IF	CITATIONS
19	Topological photonic crystal fibers and ring resonators. <i>Optics Letters</i> , 2020, 45, 1415.	3.3	23
20	Photonic flat-band lattices and unconventional light localization. <i>Nanophotonics</i> , 2020, 9, 1161-1176.	6.0	56
21	Topological phases in ring resonators: recent progress and future prospects. <i>Nanophotonics</i> , 2020, 9, 4473-4487.	6.0	41
22	Edge mode bifurcations of two-dimensional topological lasers. <i>Optics Letters</i> , 2020, 45, 3673.	3.3	5
23	Disorder-protected quantum state transmission through helical coupled-resonator waveguides. <i>Photonics Research</i> , 2020, 8, B15.	7.0	5
24	Photonic Anomalous Quantum Hall Effect. <i>Physical Review Letters</i> , 2019, 123, 043201.	7.8	61
25	Helical transport in coupled resonator waveguides. <i>Physical Review B</i> , 2019, 99, .	3.2	5
26	Topological Edge States and Gap Solitons in the Nonlinear Dirac Model. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900223.	8.7	56
27	Third-Harmonic Generation in Photonic Topological Metasurfaces. <i>Physical Review Letters</i> , 2019, 123, 103901.	7.8	144
28	Valley Vortex States and Degeneracy Lifting via Photonic Higher-Band Excitation. <i>Physical Review Letters</i> , 2019, 122, 123903.	7.8	24
29	Disorder-Robust Entanglement Transport. <i>Physical Review Letters</i> , 2019, 122, 066601.	7.8	13
30	Nonlinear symmetry breaking of Aharonov-Bohm cages. <i>Physical Review A</i> , 2019, 99, .	2.5	25
31	Topological non-Hermitian origin of surface Maxwell waves. <i>Nature Communications</i> , 2019, 10, 580.	12.8	98
32	Parity anomaly laser. <i>Optics Letters</i> , 2019, 44, 1120.	3.3	7
33	Unconventional Flatband Line States in Photonic Lieb Lattices. <i>Physical Review Letters</i> , 2018, 121, 263902.	7.8	96
34	PT phase transitions of edge states at symmetric interfaces in non-Hermitian topological insulators. <i>Physical Review B</i> , 2018, 98, .	3.2	83
35	Artificial flat band systems: from lattice models to experiments. <i>Advances in Physics: X</i> , 2018, 3, 1473052.	4.1	315
36	Reconfigurable Topological Phases in Next-Nearest-Neighbor Coupled Resonator Lattices. <i>Physical Review Letters</i> , 2018, 121, 023901.	7.8	73

#	ARTICLE	IF	CITATIONS
37	Observation of Valley Landau-Zener-Bloch Oscillations and Pseudospin Imbalance in Photonic Graphene. <i>Physical Review Letters</i> , 2018, 121, 033904.	7.8	26
38	Nonreciprocity in synthetic photonic materials with nonlinearity. <i>MRS Bulletin</i> , 2018, 43, 443-451.	3.5	19
39	Perspective: Photonic flatbands. <i>APL Photonics</i> , 2018, 3, 070901.	5.7	116
40	Localization of weakly disordered flat band states. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	93
41	Edge Modes, Degeneracies, and Topological Numbers in Non-Hermitian Systems. <i>Physical Review Letters</i> , 2017, 118, 040401.	7.8	565
42	Flat bands in lattices with non-Hermitian coupling. <i>Physical Review B</i> , 2017, 96, .	3.2	69
43	Optical isolation with nonlinear topological photonics. <i>New Journal of Physics</i> , 2017, 19, 095002.	2.9	93
44	Edge Solitons in Nonlinear-Photonic Topological Insulators. <i>Physical Review Letters</i> , 2016, 117, 143901.	7.8	234
45	Anomalous Topological Phases and Unpaired Dirac Cones in Photonic Floquet Topological Insulators. <i>Physical Review Letters</i> , 2016, 117, 013902.	7.8	121
46	Conical intersections for light and matter waves. <i>Advances in Physics: X</i> , 2016, 1, 101-113.	4.1	17
47	Detangling flat bands into Fano lattices. <i>Europhysics Letters</i> , 2014, 105, 30001.	2.0	165