

Alexandre Dauphin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,121
citations

17
h-index

33
g-index

41
ext. papers

1,618
ext. citations

6.5
avg, IF

4.94
L-index

#	Paper	IF	Citations
39	Linking topological features of the Hofstadter model to optical diffraction figures. <i>New Journal of Physics</i> , 2022 , 24, 013028	2.9	1
38	Cold atoms meet lattice gauge theory.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20210064	3	7
37	Measuring Topological Invariants in a Polaritonic Analog of Graphene. <i>Physical Review Letters</i> , 2021 , 126, 127403	7.4	4
36	Unsupervised machine learning of topological phase transitions from experimental data. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 035037	5.1	7
35	Topological properties of the long-range Kitaev chain with Aubry-Andr�Harper modulation. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
34	Characterizing the loss landscape of variational quantum circuits. <i>Quantum Science and Technology</i> , 2021 , 6, 025011	5.5	16
33	Bloch-Andau-Zener dynamics induced by a synthetic field in a photonic quantum walk. <i>APL Photonics</i> , 2021 , 6, 020802	5.2	1
32	Quantum anomalous Hall phase in synthetic bilayers via twistrionics without a twist. <i>Physical Review B</i> , 2020 , 102,	3.3	2
31	Self-Trapped Polarons and Topological Defects in a Topological Mott Insulator. <i>Physical Review Letters</i> , 2020 , 125, 240601	7.4	2
30	Nanoscale phase separation and pseudogap in the hole-doped cuprates from fluctuating Cu-O-Cu bonds. <i>Physical Review B</i> , 2020 , 101,	3.3	2
29	Generation of hybrid maximally entangled states in a one-dimensional quantum walk. <i>Quantum Science and Technology</i> , 2020 , 5, 025002	5.5	8
28	Zn solitons in intertwined topological phases. <i>Physical Review B</i> , 2020 , 102,	3.3	5
27	Dynamical Solitons and Boson Fractionalization in Cold-Atom Topological Insulators. <i>Physical Review Letters</i> , 2020 , 125, 265301	7.4	4
26	Bulk detection of time-dependent topological transitions in quenched chiral models. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
25	Two-dimensional topological quantum walks in the momentum space of structured light. <i>Optica</i> , 2020 , 7, 108	8.6	22
24	Rotor Jackiw-Rebbi Model: A Cold-Atom Approach to Chiral Symmetry Restoration and Charge Confinement. <i>PRX Quantum</i> , 2020 , 1,	6.1	1
23	Phase detection with neural networks: interpreting the black box. <i>New Journal of Physics</i> , 2020 , 22, 115004	10.1	7

22	Circular dichroism in higher-order harmonic generation: Heralding topological phases and transitions in Chern insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	33
21	Symmetry-breaking topological insulators in the Z2 Bose-Hubbard model. <i>Physical Review B</i> , 2019 , 99,	3.3	30
20	Intertwined topological phases induced by emergent symmetry protection. <i>Nature Communications</i> , 2019 , 10, 2694	17.4	22
19	Symphony on strong field approximation. <i>Reports on Progress in Physics</i> , 2019 , 82, 116001	14.4	49
18	Topological time crystals. <i>New Journal of Physics</i> , 2019 , 21, 052003	2.9	25
17	Automated discovery of characteristic features of phase transitions in many-body localization. <i>Physical Review B</i> , 2019 , 99,	3.3	15
16	Efficient algorithm to compute the second Chern number in four dimensional systems. <i>Quantum Science and Technology</i> , 2019 , 4, 014009	5.5	4
15	Identifying quantum phase transitions with adversarial neural networks. <i>Physical Review B</i> , 2018 , 97,	3.3	53
14	Topological characterization of chiral models through their long time dynamics. <i>New Journal of Physics</i> , 2018 , 20, 013023	2.9	62
13	Observation of the topological Anderson insulator in disordered atomic wires. <i>Science</i> , 2018 , 362, 929-933,	33.3	110
12	Strongly Correlated Bosons on a Dynamical Lattice. <i>Physical Review Letters</i> , 2018 , 121, 090402	7.4	28
11	Detection of Zak phases and topological invariants in a chiral quantum walk of twisted photons. <i>Nature Communications</i> , 2017 , 8, 15516	17.4	148
10	Loading ultracold gases in topological Floquet bands: the fate of current and center-of-mass responses. <i>2D Materials</i> , 2017 , 4, 024010	5.9	12
9	Probing topology by "heating": Quantized circular dichroism in ultracold atoms. <i>Science Advances</i> , 2017 , 3, e1701207	14.3	47
8	Measuring Chern numbers in Hofstadter strips. <i>SciPost Physics</i> , 2017 , 3,	6.1	14
7	Quantum simulation of a topological Mott insulator with Rydberg atoms in a Lieb lattice. <i>Physical Review A</i> , 2016 , 93,	2.6	36
6	Topological Hofstadter insulators in a two-dimensional quasicrystal. <i>Physical Review B</i> , 2015 , 91,	3.3	49
5	Efficient algorithm to compute the Berry conductivity. <i>New Journal of Physics</i> , 2014 , 16, 073016	2.9	3

4	Direct imaging of topological edge states in cold-atom systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6736-41	11.5	125
3	Extracting the Chern number from the dynamics of a Fermi gas: implementing a quantum Hall bar for cold atoms. <i>Physical Review Letters</i> , 2013 , 111, 135302	7.4	85
2	Rydberg-atom quantum simulation and Chern-number characterization of a topological Mott insulator. <i>Physical Review A</i> , 2012 , 86,	2.6	70
1	Universal quantum computation and quantum error correction with ultracold atomic mixtures. <i>Quantum Science and Technology</i> ,	5.5	3