

# Alexandre Dauphin

## List of Publications by Citations

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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	Detection of Zak phases and topological invariants in a chiral quantum walk of twisted photons. <i>Nature Communications</i> , <b>2017</b> , 8, 15516	17.4	148
38	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> , <b>2013</b> , 110, 6736-41	11.5	125
37	Observation of the topological Anderson insulator in disordered atomic wires. <i>Science</i> , <b>2018</b> , 362, 929-933	33.3	110
36	Extracting the Chern number from the dynamics of a Fermi gas: implementing a quantum Hall bar for cold atoms. <i>Physical Review Letters</i> , <b>2013</b> , 111, 135302	7.4	85
35	Rydberg-atom quantum simulation and Chern-number characterization of a topological Mott insulator. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	70
34	Topological characterization of chiral models through their long time dynamics. <i>New Journal of Physics</i> , <b>2018</b> , 20, 013023	2.9	62
33	Identifying quantum phase transitions with adversarial neural networks. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	53
32	Symphony on strong field approximation. <i>Reports on Progress in Physics</i> , <b>2019</b> , 82, 116001	14.4	49
31	Topological Hofstadter insulators in a two-dimensional quasicrystal. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	49
30	Probing topology by "heating": Quantized circular dichroism in ultracold atoms. <i>Science Advances</i> , <b>2017</b> , 3, e1701207	14.3	47
29	Quantum simulation of a topological Mott insulator with Rydberg atoms in a Lieb lattice. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	36
28	Circular dichroism in higher-order harmonic generation: Heralding topological phases and transitions in Chern insulators. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	33
27	Symmetry-breaking topological insulators in the Z2 Bose-Hubbard model. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	30
26	Strongly Correlated Bosons on a Dynamical Lattice. <i>Physical Review Letters</i> , <b>2018</b> , 121, 090402	7.4	28
25	Topological time crystals. <i>New Journal of Physics</i> , <b>2019</b> , 21, 052003	2.9	25
24	Intertwined topological phases induced by emergent symmetry protection. <i>Nature Communications</i> , <b>2019</b> , 10, 2694	17.4	22
23	Two-dimensional topological quantum walks in the momentum space of structured light. <i>Optica</i> , <b>2020</b> , 7, 108	8.6	22

22	Characterizing the loss landscape of variational quantum circuits. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 025011	5.5	16
21	Automated discovery of characteristic features of phase transitions in many-body localization. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	15
20	Measuring Chern numbers in Hofstadter strips. <i>SciPost Physics</i> , <b>2017</b> , 3,	6.1	14
19	Loading ultracold gases in topological Floquet bands: the fate of current and center-of-mass responses. <i>2D Materials</i> , <b>2017</b> , 4, 024010	5.9	12
18	Generation of hybrid maximally entangled states in a one-dimensional quantum walk. <i>Quantum Science and Technology</i> , <b>2020</b> , 5, 025002	5.5	8
17	Cold atoms meet lattice gauge theory.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2022</b> , 380, 20210064	3	7
16	Bulk detection of time-dependent topological transitions in quenched chiral models. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
15	Phase detection with neural networks: interpreting the black box. <i>New Journal of Physics</i> , <b>2020</b> , 22, 115004	4.9	7
14	Unsupervised machine learning of topological phase transitions from experimental data. <i>Machine Learning: Science and Technology</i> , <b>2021</b> , 2, 035037	5.1	7
13	Zn solitons in intertwined topological phases. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
12	Dynamical Solitons and Boson Fractionalization in Cold-Atom Topological Insulators. <i>Physical Review Letters</i> , <b>2020</b> , 125, 265301	7.4	4
11	Measuring Topological Invariants in a Polaritonic Analog of Graphene. <i>Physical Review Letters</i> , <b>2021</b> , 126, 127403	7.4	4
10	Efficient algorithm to compute the second Chern number in four dimensional systems. <i>Quantum Science and Technology</i> , <b>2019</b> , 4, 014009	5.5	4
9	Efficient algorithm to compute the Berry conductivity. <i>New Journal of Physics</i> , <b>2014</b> , 16, 073016	2.9	3
8	Universal quantum computation and quantum error correction with ultracold atomic mixtures. <i>Quantum Science and Technology</i> ,	5.5	3
7	Quantum anomalous Hall phase in synthetic bilayers via twistrionics without a twist. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
6	Self-Trapped Polarons and Topological Defects in a Topological Mott Insulator. <i>Physical Review Letters</i> , <b>2020</b> , 125, 240601	7.4	2
5	Nanoscale phase separation and pseudogap in the hole-doped cuprates from fluctuating Cu-O-Cu bonds. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	2

4	Topological properties of the long-range Kitaev chain with Aubry-Andr�Harper modulation. <i>Physical Review Research</i> , <b>2021</b> , 3,	3.9	2
3	Linking topological features of the Hofstadter model to optical diffraction figures. <i>New Journal of Physics</i> , <b>2022</b> , 24, 013028	2.9	1
2	Rotor Jackiw-Rebbi Model: A Cold-Atom Approach to Chiral Symmetry Restoration and Charge Confinement. <i>PRX Quantum</i> , <b>2020</b> , 1,	6.1	1
1	Bloch�andau�ener dynamics induced by a synthetic field in a photonic quantum walk. <i>APL Photonics</i> , <b>2021</b> , 6, 020802	5.2	1