

# Monika Aidelsburger

## List of Publications by Year in descending order

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43  
papers

5,989  
citations

257450

24  
h-index

315739

38  
g-index

47  
all docs

47  
docs citations

47  
times ranked

3657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold atoms meet lattice gauge theory. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, 20210064.	3.4	72
2	Fast long-distance transport of cold cesium atoms. Physical Review A, 2022, 105, .	2.5	10
3	Thouless Pumps and Bulk-Boundary Correspondence in Higher-Order Symmetry-Protected Topological Phases. Physical Review Letters, 2022, 128, .	7.8	11
4	Bosonic Pfaffian state in the Hofstadter-Bose-Hubbard model. Physical Review B, 2021, 103, .	3.2	8
5	Observing non-ergodicity due to kinetic constraints in tilted Fermi-Hubbard chains. Nature Communications, 2021, 12, 4490.	12.8	123
6	$Z^2$ lattice gauge theories and Kitaev's toric code: A scheme for analog quantum simulation. Physical Review B, 2021, 104, .	3.2	23
7	Benchmarking a Novel Efficient Numerical Method for Localized 1D Fermi-Hubbard Systems on a Quantum Simulator. PRX Quantum, 2021, 2, .	9.2	6
8	Realization of an anomalous Floquet topological system with ultracold atoms. Nature Physics, 2020, 16, 1058-1063.	16.7	163
9	Parametric Instabilities of Interacting Bosons in Periodically Driven 1D Optical Lattices. Physical Review X, 2020, 10, .	8.9	21
10	Rotor Jackiw-Rebbi Model: A Cold-Atom Approach to Chiral Symmetry Restoration and Charge Confinement. PRX Quantum, 2020, 1, .	9.2	3
11	Topological proximity effects in a Haldane graphene bilayer system. Physical Review B, 2019, 100, .	3.2	12
12	Observation of Many-Body Localization in a One-Dimensional System with a Single-Particle Mobility Edge. Physical Review Letters, 2019, 122, 170403.	7.8	151
13	Floquet approach to $\hat{a}_n^2$ lattice gauge theories with ultracold atoms in optical lattices. Nature Physics, 2019, 15, 1168-1173.	16.7	214
14	Coupling ultracold matter to dynamical gauge fields in optical lattices: From flux attachment to $\hat{a}_n^2$ lattice gauge theories. Science Advances, 2019, 5, eaav7444.	10.3	75
15	Topological charge pumping in the interacting bosonic Rice-Mele model. Physical Review B, 2018, 98, .	3.2	41
16	Sound Propagation in a Uniform Superfluid Two-Dimensional Bose Gas. Physical Review Letters, 2018, 121, 145301.	7.8	65
17	Nonequilibrium Mass Transport in the 1D Fermi-Hubbard Model. Physical Review Letters, 2018, 121, 130402.	7.8	39
18	Artificial gauge fields and topology with ultracold atoms in optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 193001.	1.5	12

#	ARTICLE	IF	CITATIONS
19	Artificial gauge fields in materials and engineered systems. Comptes Rendus Physique, 2018, 19, 394-432.	0.9	143
20	Resonant-light diffusion in a disordered atomic layer. Physical Review A, 2018, 97, .	2.5	12
21	Loading and compression of a single two-dimensional Bose gas in an optical accordion. Physical Review A, 2017, 95, .	2.5	39
22	Relaxation Dynamics in the Merging of $N$ Independent Condensates. Physical Review Letters, 2017, 119, 190403.	7.8	41
23	Transmission of near-resonant light through a dense slab of cold atoms. Physical Review A, 2017, 96, .	2.5	51
24	Cold atoms twisting spin and momentum. Science, 2016, 354, 35-36.	12.6	3
25	A Thouless quantum pump with ultracold bosonic atoms in an optical superlattice. Nature Physics, 2016, 12, 350-354.	16.7	449
26	Harper-Hofstadter Model and Spin Hall Effect. Springer Theses, 2016, , 101-117.	0.1	0
27	Chern-Number Measurement of Hofstadter Bands. Springer Theses, 2016, , 137-159.	0.1	0
28	Overview of the Experimental Setup and Measurement Techniques. Springer Theses, 2016, , 51-66.	0.1	0
29	Artificial Gauge Fields with Laser-Assisted Tunneling. Springer Theses, 2016, , 27-49.	0.1	1
30	Staggered Magnetic Flux. Springer Theses, 2016, , 67-100.	0.1	0
31	All-Optical Setup for Flux Rectification. Springer Theses, 2016, , 119-135.	0.1	0
32	Methods for detecting charge fractionalization and winding numbers in an interacting fermionic ladder. New Journal of Physics, 2015, 17, 105001.	2.9	24
33	Quanten-Hall-Physik mit ultrakalten Atomen. Physik in Unserer Zeit, 2015, 46, 111-112.	0.0	0
34	Periodically driven quantum matter: The case of resonant modulations. Physical Review A, 2015, 91, .	2.5	119
35	Measuring the Chern number of Hofstadter bands with ultracold bosonic atoms. Nature Physics, 2015, 11, 162-166.	16.7	777
36	Observation of chiral currents with ultracold atoms in bosonic ladders. Nature Physics, 2014, 10, 588-593.	16.7	375

#	ARTICLE	IF	CITATIONS
37	Realization of the Hofstadter Hamiltonian with Ultracold Atoms in Optical Lattices. Physical Review Letters, 2013, 111, 185301.	7.8	1,102
38	Direct measurement of the Zak phase in topological Bloch bands. Nature Physics, 2013, 9, 795-800.	16.7	751
39	Experimental realization of strong effective magnetic fields in optical superlattice potentials. Applied Physics B: Lasers and Optics, 2013, 113, 1-11.	2.2	53
40	Experimental Realization of Plaquette Resonating Valence-Bond States with Ultracold Atoms in Optical Superlattices. Physical Review Letters, 2012, 108, 205301.	7.8	80
41	Experimental Realization of Strong Effective Magnetic Fields in an Optical Lattice. Physical Review Letters, 2011, 107, 255301.	7.8	629
42	Controlling Correlated Tunneling and Superexchange Interactions with ac-Driven Optical Lattices. Physical Review Letters, 2011, 107, 210405.	7.8	142
43	Single-electron pulses for ultrafast diffraction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19714-19719.	7.1	141