

# AndrÃ© Eckardt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5049078/publications.pdf>

Version: 2024-02-01

69  
papers

5,410  
citations

172457

29  
h-index

95266

68  
g-index

69  
all docs

69  
docs citations

69  
times ranked

2878  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurable signatures of bosonic fractional Chern insulator states and their fractional excitations in a quantum-gas microscope. <i>SciPost Physics</i> , 2022, 12, .	4.9	8
2	Cooling and state preparation in an optical lattice via Markovian feedback control. <i>Physical Review Research</i> , 2022, 4, .	3.6	7
3	Robust and ultrafast state preparation by ramping artificial gauge potentials. <i>New Journal of Physics</i> , 2021, 23, 063017.	2.9	5
4	Lindbladian approximation beyond ultraweak coupling. <i>Physical Review E</i> , 2021, 104, 014110.	2.1	14
5	Floquet chiral hinge modes and their interplay with Weyl physics in a three-dimensional lattice. <i>Physical Review B</i> , 2021, 104, .	3.2	5
6	High-frequency expansions for time-periodic Lindblad generators. <i>Physical Review B</i> , 2021, 104, .	3.2	14
7	Nonequilibrium mode competition in a pumped dye-filled cavity. <i>Physical Review A</i> , 2021, 104, .	2.5	1
8	Prethermal memory loss in interacting quantum systems coupled to thermal baths. <i>Physical Review B</i> , 2020, 101, .	3.2	5
9	Is there a Floquet Lindbladian?. <i>Physical Review B</i> , 2020, 101, .	3.2	25
10	Realization of an anomalous Floquet topological system with ultracold atoms. <i>Nature Physics</i> , 2020, 16, 1058-1063.	16.7	163
11	Design and characterization of a quantum heat pump in a driven quantum gas. <i>Physical Review E</i> , 2020, 101, 042109.	2.1	1
12	Optimal frequency window for Floquet engineering in optical lattices. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
13	Bath-Induced Decay of Stark Many-Body Localization. <i>Physical Review Letters</i> , 2019, 123, 030602.	7.8	23
14	How to Directly Measure Floquet Topological Invariants in Optical Lattices. <i>Physical Review Letters</i> , 2019, 122, 253601.	7.8	24
15	Quantifying and Controlling Prethermal Nonergodicity in Interacting Floquet Matter. <i>Physical Review X</i> , 2019, 9, .	8.9	36
16	Describing many-body localized systems in thermal environments. <i>New Journal of Physics</i> , 2019, 21, 063026.	2.9	15
17	Measuring topology from dynamics by obtaining the Chern number from a linking number. <i>Nature Communications</i> , 2019, 10, 1728.	12.8	130
18	Phasonic Spectroscopy of a Quantum Gas in a Quasicrystalline Lattice. <i>Physical Review Letters</i> , 2019, 123, 223201.	7.8	16

#	ARTICLE	IF	CITATIONS
19	Hopf characterization of two-dimensional Floquet topological insulators. <i>Physical Review Research</i> , 2019, 1, .	3.6	43
20	Controlled two-mode emission from the interplay of driving and thermalization in a dye-filled photonic cavity. <i>Physical Review Research</i> , 2019, 1, .	3.6	5
21	On the number of Bose-selected modes in driven-dissipative ideal Bose gases. <i>Physical Review E</i> , 2018, 97, 032136.	2.1	11
22	Creating, probing, and manipulating fractionally charged excitations of fractional Chern insulators in optical lattices. <i>Physical Review A</i> , 2018, 98, .	2.5	35
23	Measuring the Single-Particle Density Matrix for Fermions and Hard-Core Bosons in an Optical Lattice. <i>Physical Review Letters</i> , 2018, 121, 260401.	7.8	20
24	Charge density wave and charge pump of interacting fermions in circularly shaken hexagonal optical lattices. <i>Physical Review A</i> , 2018, 98, .	2.5	15
25	Unified theory for excited-state, fragmented, and equilibriumlike Bose condensation in pumped photonic many-body systems. <i>Physical Review A</i> , 2018, 97, .	2.5	4
26	Floquet Engineering of Optical Solenoids and Quantized Charge Pumping along Tailored Paths in Two-Dimensional Chern Insulators. <i>Physical Review Letters</i> , 2018, 120, 243602.	7.8	27
27	Colloquium: Atomic quantum gases in periodically driven optical lattices. <i>Reviews of Modern Physics</i> , 2017, 89, .	45.6	737
28	High-Temperature Nonequilibrium Bose Condensation Induced by a Hot Needle. <i>Physical Review Letters</i> , 2017, 119, 140602.	7.8	12
29	Pump-Power-Driven Mode Switching in a Microcavity Device and Its Relation to Bose-Einstein Condensation. <i>Physical Review X</i> , 2017, 7, .	8.9	18
30	Interaction Dependent Heating and Atom Loss in a Periodically Driven Optical Lattice. <i>Physical Review Letters</i> , 2017, 119, 200402.	7.8	73
31	Mode switching in bimodal microcavities and its connection to Bose condensation. , 2017, , .		0
32	Semisynthetic zigzag optical lattice for ultracold bosons. <i>Physical Review A</i> , 2016, 94, .	2.5	51
33	Interband Heating Processes in a Periodically Driven Optical Lattice. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2016, 71, 909-920.	1.5	20
34	Modified interactions in a Floquet topological system on a square lattice and their impact on a bosonic fractional Chern insulator state. <i>Physical Review A</i> , 2016, 93, .	2.5	17
35	Floquet Realization and Signatures of One-Dimensional Anyons in an Optical Lattice. <i>Physical Review Letters</i> , 2016, 117, 205303.	7.8	66
36	Multiphoton interband excitations of quantum gases in driven optical lattices. <i>Physical Review A</i> , 2015, 92, .	2.5	65

#	ARTICLE	IF	CITATIONS
37	Role of real-space micromotion for bosonic and fermionic Floquet fractional Chern insulators. Physical Review B, 2015, 91, .	3.2	43
38	Nonequilibrium steady states of ideal bosonic and fermionic quantum gases. Physical Review E, 2015, 92, 062119.	2.1	29
39	High-frequency approximation for periodically driven quantum systems from a Floquet-space perspective. New Journal of Physics, 2015, 17, 093039.	2.9	422
40	Orbital-driven melting of a bosonic Mott insulator in a shaken optical lattice. Physical Review A, 2015, 91, .	2.5	14
41	Relaxation Dynamics of an Isolated Large-Spin Fermi Gas Far from Equilibrium. Physical Review X, 2014, 4, .	8.9	10
42	Giant Spin Oscillations in an Ultracold Fermi Sea. Science, 2014, 343, 157-160.	12.6	46
43	Tomography of Band Insulators from Quench Dynamics. Physical Review Letters, 2014, 113, 045303.	7.8	102
44	Engineering Ising-XY spin-models in a triangular lattice using tunable artificial gauge fields. Nature Physics, 2013, 9, 738-743.	16.7	286
45	Generalized Bose-Einstein Condensation into Multiple States in Driven-Dissipative Systems. Physical Review Letters, 2013, 111, 240405.	7.8	80
46	Spontaneous Time-Reversal Symmetry Breaking for Spinless Fermions on a Triangular Lattice. Physical Review Letters, 2013, 110, 096405.	7.8	14
47	Engineering Spin Waves in a High-Spin Ultracold Fermi Gas. Physical Review Letters, 2013, 110, 250402.	7.8	20
48	Quantum crystal growing: adiabatic preparation of a bosonic antiferromagnet in the presence of a parabolic inhomogeneity. New Journal of Physics, 2013, 15, 033028.	2.9	6
49	Tunable gauge potential for spinless particles in driven lattices. EPJ Web of Conferences, 2013, 57, 01004.	0.3	1
50	Non-Abelian Gauge Fields and Topological Insulators in Shaken Optical Lattices. Physical Review Letters, 2012, 109, 145301.	7.8	287
51	Kilohertz-Driven Bose-Einstein Condensates in Optical Lattices. Advances in Atomic, Molecular and Optical Physics, 2012, 61, 515-547.	2.3	45
52	Tunable Gauge Potential for Neutral and Spinless Particles in Driven Optical Lattices. Physical Review Letters, 2012, 108, 225304.	7.8	523
53	Spin segregation via dynamically induced long-range interactions in a system of ultracold fermions. Physical Review A, 2011, 84, .	2.5	11
54	Quantum Simulation of Frustrated Classical Magnetism in Triangular Optical Lattices. Science, 2011, 333, 996-999.	12.6	543

#	ARTICLE	IF	CITATIONS
55	Bose-Hubbard model with occupation-dependent parameters. <i>New Journal of Physics</i> , 2011, 13, 023019.	2.9	50
56	Controlled hole doping of a Mott insulator of ultracold fermionic atoms. <i>Physical Review A</i> , 2010, 82, .	2.5	15
57	Frustrated quantum antiferromagnetism with ultracold bosons in a triangular lattice. <i>Europhysics Letters</i> , 2010, 89, 10010.	2.0	131
58	Process-chain approach to high-order perturbation calculus for quantum lattice models. <i>Physical Review B</i> , 2009, 79, .	3.2	25
59	Exploring dynamic localization with a Bose-Einstein condensate. <i>Physical Review A</i> , 2009, 79, .	2.5	180
60	Bose-Hubbard phase diagram with arbitrary integer filling. <i>Physical Review B</i> , 2009, 79, .	3.2	54
61	Process-chain approach to the Bose-Hubbard model: Ground-state properties and phase diagram. <i>Physical Review B</i> , 2009, 79, .	3.2	48
62	Avoided-Level-Crossing Spectroscopy with Dressed Matter Waves. <i>Physical Review Letters</i> , 2008, 101, 245302.	7.8	47
63	Dressed matter waves. <i>Journal of Physics: Conference Series</i> , 2008, 99, 012007.	0.4	17
64	AC-induced superfluidity. <i>Europhysics Letters</i> , 2007, 80, 50004.	2.0	58
65	Analog of Photon-Assisted Tunneling in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2005, 95, 200401.	7.8	111
66	Superfluid-Insulator Transition in a Periodically Driven Optical Lattice. <i>Physical Review Letters</i> , 2005, 95, 260404.	7.8	446
67	Ground-state energy and depletions for a dilute binary Bose gas. <i>Physical Review A</i> , 2004, 70, .	2.5	15
68	Ground-state energy of a homogeneous Bose-Einstein condensate beyond Bogoliubov. <i>Europhysics Letters</i> , 2004, 68, 8-14.	2.0	2
69	Ground-State Energy of a Weakly Interacting Bose Gas: Calculation Without Regularization. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2004, 59, 1-13.	1.5	5