

Bryce Gadway

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,795
citations

279798

23
h-index

454955

30
g-index

32
all docs

32
docs citations

32
times ranked

2251
citing authors

#	ARTICLE	IF	CITATIONS
1	A shaking phase transition. Nature Physics, 2022, 18, 231-232.	16.7	0
2	Gray molasses cooling of K atoms in optical tweezers. Physical Review Research, 2022, 4, .	3.6	9
3	Simulating quantum mechanics with a \tilde{I} -term and an \tilde{t} Hooft anomaly on a synthetic dimension. Physical Review D, 2022, 105, .	4.7	1
4	Interactions and Mobility Edges: Observing the Generalized Aubry-Andr� Model. Physical Review Letters, 2021, 126, 040603.	7.8	74
5	Nonlinear Dynamics in a Synthetic Momentum-State Lattice. Physical Review Letters, 2021, 127, 130401.	7.8	24
6	Quantifying entanglement in cluster states built with error-prone interactions. Physical Review Research, 2021, 3, .	3.6	0
7	Framework for simulating gauge theories with dipolar spin systems. Physical Review A, 2020, 102, .	2.5	28
8	Nondestructive dispersive imaging of rotationally excited ultracold molecules. Physical Chemistry Chemical Physics, 2020, 22, 20531-20544.	2.8	6
9	Tunable Nonreciprocal Quantum Transport through a Dissipative Aharonov-Bohm Ring in Ultracold Atoms. Physical Review Letters, 2020, 124, 070402.	7.8	107
10	Counterdiabatic control of transport in a synthetic tight-binding lattice. Physical Review Research, 2020, 2, .	3.6	7
11	Engineering tunable local loss in a synthetic lattice of momentum states. New Journal of Physics, 2019, 21, 045006.	2.9	52
12	Exploring quantum signatures of chaos on a Floquet synthetic lattice. Physical Review A, 2019, 100, .	2.5	36
13	Strings of ultracold molecules in a synthetic dimension. Physical Review A, 2019, 99, .	2.5	11
14	Topological characterizations of an extended Su-Schrieffer-Heeger model. Npj Quantum Information, 2019, 5, .	6.7	94
15	Correlated Dynamics in a Synthetic Lattice of Momentum States. Physical Review Letters, 2018, 120, 040407.	7.8	54
16	Observation of the topological Anderson insulator in disordered atomic wires. Science, 2018, 362, 929-933.	12.6	217
17	Synthetic dimensions in ultracold polar molecules. Scientific Reports, 2018, 8, 3422.	3.3	40
18	Engineering a Flux-Dependent Mobility Edge in Disordered Zigzag Chains. Physical Review X, 2018, 8, .	8.9	76

#	ARTICLE	IF	CITATIONS
19	Direct observation of chiral currents and magnetic reflection in atomic flux lattices. <i>Science Advances</i> , 2017, 3, e1602685.	10.3	113
20	Diffusive and arrested transport of atoms under tailored disorder. <i>Nature Communications</i> , 2017, 8, 325.	12.8	24
21	Observation of the topological soliton state in the Su-Schrieffer-Heeger model. <i>Nature Communications</i> , 2016, 7, 13986.	12.8	302
22	Atom-optics simulator of lattice transport phenomena. <i>Physical Review A</i> , 2016, 93, .	2.5	65
23	Strongly interacting ultracold polar molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2016, 49, 152002.	1.5	70
24	Atom-optics approach to studying transport phenomena. <i>Physical Review A</i> , 2015, 92, .	2.5	61
25	Creation of a low-entropy quantum gas of polar molecules in an optical lattice. <i>Science</i> , 2015, 350, 659-662.	12.6	164
26	Many-Body Dynamics of Dipolar Molecules in an Optical Lattice. <i>Physical Review Letters</i> , 2014, 113, 195302.	7.8	162
27	Observation of dipolar spin-exchange interactions with lattice-confined polar molecules. <i>Nature</i> , 2013, 501, 521-525.	27.8	671
28	Evidence for a Quantum-to-Classical Transition in a Pair of Coupled Quantum Rotors. <i>Physical Review Letters</i> , 2013, 110, 190401.	7.8	52
29	Probing an ultracold-atom crystal with matter waves. <i>Nature Physics</i> , 2012, 8, 544-549.	16.7	22
30	Glassy Behavior in a Binary Atomic Mixture. <i>Physical Review Letters</i> , 2011, 107, 145306.	7.8	94
31	Superfluidity of Interacting Bosonic Mixtures in Optical Lattices. <i>Physical Review Letters</i> , 2010, 105, 045303.	7.8	120
32	Analysis of Kapitza-Dirac diffraction patterns beyond the Raman-Nath regime. <i>Optics Express</i> , 2009, 17, 19173.	3.4	39