

Lauriane Chomaz

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,372
citations

361413

20
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

1618
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum-Fluctuation-Driven Crossover from a Dilute Bose-Einstein Condensate to a Macrodroplet in a Dipolar Quantum Fluid. <i>Physical Review X</i> , 2016, 6, .	8.9	315
2	Extended Bose-Hubbard models with ultracold magnetic atoms. <i>Science</i> , 2016, 352, 201-205.	12.6	249
3	Long-Lived and Transient Supersolid Behaviors in Dipolar Quantum Gases. <i>Physical Review X</i> , 2019, 9, .	8.9	231
4	Emergence of coherence via transverse condensation in a uniform quasi-two-dimensional Bose gas. <i>Nature Communications</i> , 2015, 6, 6162.	12.8	206
5	Observation of roton mode population in a dipolar quantum gas. <i>Nature Physics</i> , 2018, 14, 442-446.	16.7	193
6	Quench-Induced Supercurrents in an Annular Bose Gas. <i>Physical Review Letters</i> , 2014, 113, 135302.	7.8	172
7	Superfluid behaviour of a two-dimensional Bose gas. <i>Nature Physics</i> , 2012, 8, 645-648.	16.7	161
8	Excitation Spectrum of a Trapped Dipolar Supersolid and Its Experimental Evidence. <i>Physical Review Letters</i> , 2019, 123, 050402.	7.8	142
9	Exploring the Thermodynamics of a Two-Dimensional Bose Gas. <i>Physical Review Letters</i> , 2011, 107, 130401.	7.8	118
10	Probing the Roton Excitation Spectrum of a Stable Dipolar Bose Gas. <i>Physical Review Letters</i> , 2019, 122, 183401.	7.8	85
11	Emergence of Chaotic Scattering in Ultracold Er and Dy. <i>Physical Review X</i> , 2015, 5, .	8.9	81
12	Absorption imaging of a quasi-two-dimensional gas: a multiple scattering analysis. <i>New Journal of Physics</i> , 2012, 14, 055001.	2.9	76
13	Realization of a Strongly Interacting Fermi Gas of Dipolar Atoms. <i>Physical Review Letters</i> , 2018, 121, 093602.	7.8	43
14	Birth, Life, and Death of a Dipolar Supersolid. <i>Physical Review Letters</i> , 2021, 126, 233401.	7.8	43
15	Supersolidity in an elongated dipolar condensate. <i>Physical Review Research</i> , 2020, 2, .	3.6	42
16	Loading and compression of a single two-dimensional Bose gas in an optical accordion. <i>Physical Review A</i> , 2017, 95, .	2.5	39
17	Controlling dipolar exchange interactions in a dense three-dimensional array of large-spin fermions. <i>Physical Review Research</i> , 2020, 2, .	3.6	39
18	Phase coherence in out-of-equilibrium supersolid states of ultracold dipolar atoms. <i>Nature Physics</i> , 2021, 17, 356-361.	16.7	32

#	ARTICLE	IF	CITATIONS
19	Determination of Scale-Invariant Equations of State without Fitting Parameters: Application to the Two-Dimensional Bose Gas Across the Berezinskii-Kosterlitz-Thouless Transition. <i>Physical Review Letters</i> , 2014, 113, 020404.	7.8	31
20	Bragg scattering of an ultracold dipolar gas across the phase transition from Bose-Einstein condensate to supersolid in the free-particle regime. <i>Physical Review A</i> , 2021, 104, .	2.5	21
21	Determination of the scattering length of erbium atoms. <i>Physical Review A</i> , 2022, 105, .	2.5	13
22	Probing the supersolid order via high-energy scattering: Analytical relations among the response, density modulation, and superfluid fraction. <i>Physical Review A</i> , 2020, 102, .	2.5	12
23	Observation of a narrow inner-shell orbital transition in atomic erbium at 1299Ånm. <i>Physical Review Research</i> , 2021, 3, .	3.6	8
24	Bose-Hubbard physics in synthetic dimensions from interaction Trotterization. <i>Physical Review Research</i> , 2020, 2, .	3.6	8
25	Interaction-driven Lifshitz transition with dipolar fermions in optical lattices. <i>Physical Review B</i> , 2016, 93, .	3.2	6
26	Ground state of an ultracold Fermi gas of tilted dipoles in elongated traps. <i>New Journal of Physics</i> , 2018, 20, 093016.	2.9	6