Cheng Chin

List of Publications by Year in descending order

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42	5,480	218677	289244
papers	citations	26 h-index	40 g-index

43	43	43	3415
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Feshbach resonances in ultracold gases. Reviews of Modern Physics, 2010, 82, 1225-1286.	45.6	2,905
2	Preparation of a Pure Molecular Quantum Gas. Science, 2003, 301, 1510-1513.	12.6	356
3	Observation of scale invariance and universality in two-dimensional Bose gases. Nature, 2011, 470, 236-239.	27.8	227
4	Direct observation of effective ferromagnetic domains of cold atoms in a shaken optical lattice. Nature Physics, 2013, 9, 769-774.	16.7	206
5	Geometric Scaling of Efimov States in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow><mml:mtext>â”</mml:mtext><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Li</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>133</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:mrow></mml:math>M.	7.8	142
6	From Cosmology to Cold Atoms: Observation of Sakharov Oscillations in a Quenched Atomic Superfluid. Science, 2013, 341, 1213-1215.	12.6	129
7	Universal space-time scaling symmetry in the dynamics of bosons across a quantum phase transition. Science, 2016, 354, 606-610.	12.6	116
8	Observation of Quantum Criticality with Ultracold Atoms in Optical Lattices. Science, 2012, 335, 1070-1072.	12.6	106
9	Quantum Dynamics with Spatiotemporal Control of Interactions in a Stable Bose-Einstein Condensate. Physical Review Letters, 2015, 115, 155301.	7.8	103
10	Observation of three-photon bound states in a quantum nonlinear medium. Science, 2018, 359, 783-786.	12.6	99
11	Roton-Maxon Excitation Spectrum of Bose Condensates in a Shaken Optical Lattice. Physical Review Letters, 2015, 114, 055301.	7.8	94
12	Quantum simulation of Unruh radiation. Nature Physics, 2019, 15, 785-789.	16.7	91
13	Observation of Density-Dependent Gauge Fields in a Bose-Einstein Condensate Based on Micromotion Control in a Shaken Two-Dimensional Lattice. Physical Review Letters, 2018, 121, 030402.	7.8	87
14	Extracting densityâ€“density correlations fromin situimages of atomic quantum gases. New Journal of Physics, 2011, 13, 075019.	2.9	76
15	Observation of fermion-mediated interactions between bosonic atoms. Nature, 2019, 568, 61-64.	27.8	76
16	Ultracold mixtures of atomic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>6</mml:mn></mml:msup></mml:math>Li and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>133</mml:mn></mml:msup></mml:math>Cs with tunable interactions. Physical Review A, 2013, 87, .	2.5	70
17	Collective emission of matter-wave jets from driven Boseâ€“Einstein condensates. Nature, 2017, 551, 356-359.	27.8	69
18	Strongly Interacting Two-Dimensional Bose Gases. Physical Review Letters, 2013, 110, 145302.	7.8	60

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19	Enhanced Sensitivity to Fundamental Constants In Ultracold Atomic and Molecular Systems near Feshbach Resonances. Physical Review Letters, 2006, 96, 230801.	7.8	54
20	Testing universality of Efimov physics across broad and narrow Feshbach resonances. Nature Physics, 2017, 13, 731-735.	16.7	51
21	Observation of a Degenerate Fermi Gas Trapped by a Bose-Einstein Condensate. Physical Review Letters, 2017, 119, 233401.	7.8	44
22	Universal Loss Dynamics in a Unitary Bose Gas. Physical Review X, 2016, 6, .	8.9	41
23	Pattern formation in a driven Boseâ€“Einstein condensate. Nature Physics, 2020, 16, 652-656.	16.7	34
24	Superresolution Microscopy of Cold Atoms in an Optical Lattice. Physical Review X, 2019, 9, .	8.9	33
25	Strong Interaction Effects and Criticality of Bosons in Shaken Optical Lattices. Physical Review Letters, 2014, 113, 155303.	7.8	29
26	Density Waves and Jet Emission Asymmetry in Bose Fireworks. Physical Review Letters, 2018, 121, 243001.	7.8	28
27	Coherent inflationary dynamics for Boseâ€“Einstein condensates crossing a quantum critical point. Nature Physics, 2018, 14, 269-272.	16.7	26
28	Transition from an atomic to a molecular Boseâ€“Einstein condensate. Nature, 2021, 592, 708-711.	27.8	26
29	Correlations in high-harmonic generation of matter-wave jets revealed by pattern recognition. Science, 2019, 363, 521-524.	12.6	25
30	Quench dynamics in Bose-Einstein condensates in the presence of a bath: Theory and experiment. Physical Review A, 2013, 88, .	2.5	22
31	Domain-wall dynamics in Boseâ€“Einstein condensates with synthetic gauge fields. Nature, 2022, 602, 68-72.	27.8	17
32	Strongly Correlated Quantum Gas Prepared by Direct Laser Cooling. Physical Review Letters, 2019, 123, 173401.	7.8	11
33	Pair fraction in a finite-temperature Fermi gas on the BEC side of the BCS-BEC crossover. Physical Review A, 2019, 99, .	2.5	9
34	Jet Substructure in Fireworks Emission from Nonuniform and Rotating Bose-Einstein Condensates. Physical Review Letters, 2020, 125, 183003.	7.8	6
35	In Situ Imaging of Atomic Quantum Gases. Cold Atoms, 2014, , 101-120.	0.3	3
36	Exotic domain walls in Bose-Einstein condensates with double-well dispersion. Physical Review A, 2016, 94, .	2.5	2

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37	Ultracold atomic gases going strong. National Science Review, 2016, 3, 168-170.	9.5	2
38	Atoms in chequerboard order. Nature, 2010, 464, 1289-1290.	27.8	1
39	Engaged in gauge theory. Nature Physics, 2019, 15, 1106-1107.	16.7	1
40	Dynamical preparation of an atomic condensate in a Hofstadter band. Physical Review A, 2022, 105, .	2.5	1
41	Bound to be universal?. Nature Physics, 2015, 11, 449-451.	16.7	0
42	EXPLORING UNIVERSALITY OF FEW-BODY PHYSICS BASED ON ULTRACOLD ATOMS NEAR FESHBACH RESONANCES. , 2009, , .		0