

# Cheng Chin

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

5,480  
citations

218677

26  
h-index

289244

40  
g-index

43  
all docs

43  
docs citations

43  
times ranked

3415  
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain-wall dynamics in Bose-Einstein condensates with synthetic gauge fields. <i>Nature</i> , 2022, 602, 68-72.	27.8	17
2	Dynamical preparation of an atomic condensate in a Hofstadter band. <i>Physical Review A</i> , 2022, 105, .	2.5	1
3	Transition from an atomic to a molecular Bose-Einstein condensate. <i>Nature</i> , 2021, 592, 708-711.	27.8	26
4	Jet Substructure in Fireworks Emission from Nonuniform and Rotating Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2020, 125, 183003.	7.8	6
5	Pattern formation in a driven Bose-Einstein condensate. <i>Nature Physics</i> , 2020, 16, 652-656.	16.7	34
6	Strongly Correlated Quantum Gas Prepared by Direct Laser Cooling. <i>Physical Review Letters</i> , 2019, 123, 173401.	7.8	11
7	Correlations in high-harmonic generation of matter-wave jets revealed by pattern recognition. <i>Science</i> , 2019, 363, 521-524.	12.6	25
8	Quantum simulation of Unruh radiation. <i>Nature Physics</i> , 2019, 15, 785-789.	16.7	91
9	Pair fraction in a finite-temperature Fermi gas on the BEC side of the BCS-BEC crossover. <i>Physical Review A</i> , 2019, 99, .	2.5	9
10	Superresolution Microscopy of Cold Atoms in an Optical Lattice. <i>Physical Review X</i> , 2019, 9, .	8.9	33
11	Observation of fermion-mediated interactions between bosonic atoms. <i>Nature</i> , 2019, 568, 61-64.	27.8	76
12	Engaged in gauge theory. <i>Nature Physics</i> , 2019, 15, 1106-1107.	16.7	1
13	Observation of three-photon bound states in a quantum nonlinear medium. <i>Science</i> , 2018, 359, 783-786.	12.6	99
14	Coherent inflationary dynamics for Bose-Einstein condensates crossing a quantum critical point. <i>Nature Physics</i> , 2018, 14, 269-272.	16.7	26
15	Density Waves and Jet Emission Asymmetry in Bose Fireworks. <i>Physical Review Letters</i> , 2018, 121, 243001.	7.8	28
16	Observation of Density-Dependent Gauge Fields in a Bose-Einstein Condensate Based on Micromotion Control in a Shaken Two-Dimensional Lattice. <i>Physical Review Letters</i> , 2018, 121, 030402.	7.8	87
17	Testing universality of Efimov physics across broad and narrow Feshbach resonances. <i>Nature Physics</i> , 2017, 13, 731-735.	16.7	51
18	Observation of a Degenerate Fermi Gas Trapped by a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2017, 119, 233401.	7.8	44

#	ARTICLE	IF	CITATIONS
19	Collective emission of matter-wave jets from driven Bose-Einstein condensates. Nature, 2017, 551, 356-359.	27.8	69
20	Exotic domain walls in Bose-Einstein condensates with double-well dispersion. Physical Review A, 2016, 94, .	2.5	2
21	Universal Loss Dynamics in a Unitary Bose Gas. Physical Review X, 2016, 6, .	8.9	41
22	Universal space-time scaling symmetry in the dynamics of bosons across a quantum phase transition. Science, 2016, 354, 606-610.	12.6	116
23	Ultracold atomic gases going strong. National Science Review, 2016, 3, 168-170.	9.5	2
24	Quantum Dynamics with Spatiotemporal Control of Interactions in a Stable Bose-Einstein Condensate. Physical Review Letters, 2015, 115, 155301.	7.8	103
25	Bound to be universal?. Nature Physics, 2015, 11, 449-451.	16.7	0
26	Roton-Maxon Excitation Spectrum of Bose Condensates in a Shaken Optical Lattice. Physical Review Letters, 2015, 114, 055301.	7.8	94
27	Geometric Scaling of Excited States in a $\text{Li}$ Bose-Einstein Condensate. Physical Review Letters, 2015, 114, 055301.	7.8	142
28	In Situ Imaging of Atomic Quantum Gases. Cold Atoms, 2014, , 101-120.	0.3	3
29	Strong Interaction Effects and Criticality of Bosons in Shaken Optical Lattices. Physical Review Letters, 2014, 113, 155303.	7.8	29
30	Direct observation of effective ferromagnetic domains of cold atoms in a shaken optical lattice. Nature Physics, 2013, 9, 769-774.	16.7	206
31	From Cosmology to Cold Atoms: Observation of Sakharov Oscillations in a Quenched Atomic Superfluid. Science, 2013, 341, 1213-1215.	12.6	129
32	Ultracold mixtures of atomic $\text{Li}$ and $\text{Cs}$ with tunable interactions. Physical Review A, 2013, 87, .	2.5	70
33	Strongly Interacting Two-Dimensional Bose Gases. Physical Review Letters, 2013, 110, 145302.	7.8	60
34	Quench dynamics in Bose-Einstein condensates in the presence of a bath: Theory and experiment. Physical Review A, 2013, 88, .	2.5	22
35	Observation of Quantum Criticality with Ultracold Atoms in Optical Lattices. Science, 2012, 335, 1070-1072.	12.6	106
36	Observation of scale invariance and universality in two-dimensional Bose gases. Nature, 2011, 470, 236-239.	27.8	227

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37	Extracting density–density correlations from <i>in situ</i> images of atomic quantum gases. <i>New Journal of Physics</i> , 2011, 13, 075019.	2.9	76
38	Atoms in checkerboard order. <i>Nature</i> , 2010, 464, 1289-1290.	27.8	1
39	Feshbach resonances in ultracold gases. <i>Reviews of Modern Physics</i> , 2010, 82, 1225-1286.	45.6	2,905
40	EXPLORING UNIVERSALITY OF FEW-BODY PHYSICS BASED ON ULTRACOLD ATOMS NEAR FESHBACH RESONANCES. , 2009, , .		0
41	Enhanced Sensitivity to Fundamental Constants In Ultracold Atomic and Molecular Systems near Feshbach Resonances. <i>Physical Review Letters</i> , 2006, 96, 230801.	7.8	54
42	Preparation of a Pure Molecular Quantum Gas. <i>Science</i> , 2003, 301, 1510-1513.	12.6	356