

Chunlei Qu

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,312
citations

430442

18
h-index

454577

30
g-index

30
all docs

30
docs citations

30
times ranked

946
citing authors

#	ARTICLE	IF	CITATIONS
1	Spin Squeezing with Short-Range Spin-Exchange Interactions. <i>Physical Review Letters</i> , 2020, 125, 223401.	2.9	34
2	Spin squeezing and many-body dipolar dynamics in optical lattice clocks. <i>Physical Review A</i> , 2019, 100, .	1.0	24
3	Spin current generation and relaxation in a quenched spin-orbit-coupled Bose-Einstein condensate. <i>Nature Communications</i> , 2019, 10, 375.	5.8	21
4	Observation of Spin Superfluidity in a Bose Gas Mixture. <i>Physical Review Letters</i> , 2018, 120, 170401.	2.9	43
5	Angular Momentum of a Bose-Einstein Condensate in a Synthetic Rotational Field. <i>Physical Review Letters</i> , 2018, 120, 183202.	2.9	14
6	Valley-selective topologically ordered states in irradiated bilayer graphene. <i>2D Materials</i> , 2018, 5, 011005.	2.0	9
7	Observation of Floquet bands in driven spin-orbit-coupled Fermi gases. <i>Physical Review A</i> , 2018, 98, .	1.0	12
8	Magnetic solitons in Rabi-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2017, 95, .	1.0	30
9	Stueckelberg interferometry using periodically driven spin-orbit-coupled Bose-Einstein condensates. <i>Physical Review A</i> , 2017, 95, .	1.0	9
10	Spin-orbit-coupling induced localization in the expansion of an interacting Bose-Einstein condensate. <i>New Journal of Physics</i> , 2017, 19, 085006.	1.2	11
11	Momentum-Resolved Observation of Thermal and Quantum Depletion in a Bose Gas. <i>Physical Review Letters</i> , 2016, 117, 235303.	2.9	49
12	Spin-dipole oscillation and polarizability of a binary Bose-Einstein condensate near the miscible-immiscible phase transition. <i>Physical Review A</i> , 2016, 94, .	1.0	30
13	Optical-lattice-assisted magnetic phase transition in a spin-orbit-coupled Bose-Einstein condensate. <i>Physical Review A</i> , 2016, 94, .	1.0	12
14	Interacting spin-orbit-coupled spin-1 Bose-Einstein condensates. <i>Physical Review A</i> , 2016, 93, .	1.0	56
15	One-dimensional topological chains with Majorana fermions in two-dimensional nontopological optical lattices. <i>Physical Review A</i> , 2016, 93, .	1.0	2
16	Fulde-Ferrell Superfluids without Spin Imbalance in Driven Optical Lattices. <i>Physical Review Letters</i> , 2016, 116, 120403.	2.9	15
17	Magnetic Solitons in a Binary Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2016, 116, 160402.	2.9	64
18	Expansion of harmonically trapped interacting particles and time dependence of the contact. <i>Physical Review A</i> , 2016, 94, .	1.0	17

#	ARTICLE	IF	CITATIONS
19	Spin-momentum coupled Bose-Einstein condensates with lattice band pseudospins. Nature Communications, 2016, 7, 10867.	5.8	23
20	Quantum phases of Bose-Einstein condensates with synthetic spin-orbital-angular-momentum coupling. Physical Review A, 2015, 91, .	1.0	38
21	Floquet Fulde-Ferrell-Larkin-Ovchinnikov superfluids and Majorana fermions in a shaken fermionic optical lattice. Physical Review A, 2015, 91, .	1.0	14
22	Spin-orbital-angular-momentum coupling in Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	53
23	Dynamical spin-density waves in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2015, 92, .	1.0	12
24	Majorana fermions in quasi-one-dimensional and higher-dimensional ultracold optical lattices. Physical Review A, 2015, 92, .	1.0	8
25	Tunable Spin-Orbit Coupling via Strong Driving in Ultracold-Atom Systems. Physical Review Letters, 2015, 114, 125301.	2.9	142
26	Fulde-Ferrell-Larkin-Ovchinnikov or Majorana superfluids: The fate of fermionic cold atoms in spin-orbit-coupled optical lattices. Physical Review A, 2014, 89, .	1.0	20
27	Competing superfluid orders in spin-orbit-coupled fermionic cold-atom optical lattices. Physical Review A, 2014, 89, .	1.0	48
28	Dicke-type phase transition in a spin-orbit-coupled Bose-Einstein condensate. Nature Communications, 2014, 5, 4023.	5.8	125
29	Topological superfluids with finite-momentum pairing and Majorana fermions. Nature Communications, 2013, 4, 2710.	5.8	109
30	Observation of Zitterbewegung in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2013, 88, .	1.0	268