

Peter Engels

List of Publications by Year in descending order

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38
papers

3,581
citations

²¹⁸³⁸¹
26
h-index

³²⁹⁷⁵¹
37
g-index

38
all docs

38
docs citations

38
times ranked

1789
citing authors

#	ARTICLE	IF	CITATIONS
1	Driving Bose-Einstein-Condensate Vorticity with a Rotating Normal Cloud. Physical Review Letters, 2001, 87, 210403.	2.9	302
2	Observation of <i>Zitterbewegung</i> in a spin-orbit-coupled Bose-Einstein condensate. Physical Review A, 2013, 88, .	1.0	268
3	Generation of Dark-Bright Soliton Trains in Superfluid-Superfluid Counterflow. Physical Review Letters, 2011, 106, 065302.	2.9	262
4	Dispersive and classical shock waves in Bose-Einstein condensates and gas dynamics. Physical Review A, 2006, 74, .	1.0	245
5	Stationary and Nonstationary Fluid Flow of a Bose-Einstein Condensate Through a Penetrable Barrier. Physical Review Letters, 2007, 99, 160405.	2.9	192
6	Vortex-Lattice Dynamics in Rotating Spinor Bose-Einstein Condensates. Physical Review Letters, 2004, 93, 210403.	2.9	183
7	Observation of Tkachenko Oscillations in Rapidly Rotating Bose-Einstein Condensates. Physical Review Letters, 2003, 91, 100402.	2.9	179
8	Observation of Faraday Waves in a Bose-Einstein Condensate. Physical Review Letters, 2007, 98, 095301.	2.9	173
9	Observation of Long-Lived Vortex Aggregates in Rapidly Rotating Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 170405.	2.9	162
10	Nonequilibrium Effects of Anisotropic Compression Applied to Vortex Lattices in Bose-Einstein Condensates. Physical Review Letters, 2002, 89, 100403.	2.9	156
11	Dark-dark solitons and modulational instability in miscible two-component Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	151
12	Spin-Orbit-Coupled Bose-Einstein Condensates in a One-Dimensional Optical Lattice. Physical Review Letters, 2015, 114, 070401.	2.9	126
13	Dicke-type phase transition in a spin-orbit-coupled Bose-Einstein condensate. Nature Communications, 2014, 5, 4023.	5.8	125
14	Formation of Dispersive Shock Waves by Merging and Splitting Bose-Einstein Condensates. Physical Review Letters, 2008, 101, 170404.	2.9	119
15	Negative-Mass Hydrodynamics in a Spin-Orbit-coupled Bose-Einstein Condensate. Physical Review Letters, 2017, 118, 155301.	2.9	95
16	Dynamics of dark-bright solitons in cigar-shaped Bose-Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 642-646.	0.9	92
17	Properties of spin-orbit-coupled Bose-Einstein condensates. Frontiers of Physics, 2016, 11, 1.	2.4	89
18	Three-Component Soliton States in Spinor $F = \frac{1}{2} \nabla^2 \psi + \mu \psi = 0$ Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063202.	2.9	89

#	ARTICLE	IF	CITATIONS
19	Multiple dark-bright solitons in atomic Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 84, .	1.0	83
20	Measurement of collective excitations in a spin-orbit-coupled Bose-Einstein condensate. <i>Physical Review A</i> , 2014, 90, .	1.0	68
21	Beating darkâ€“dark solitons in Boseâ€“Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 115301.	0.6	65
22	Vector dark-antidark solitary waves in multicomponent Bose-Einstein condensates. <i>Physical Review A</i> , 2016, 94, .	1.0	43
23	Piston Dispersive Shock Wave Problem. <i>Physical Review Letters</i> , 2008, 100, 084504.	2.9	41
24	Phase Winding a Two-Component Bose-Einstein Condensate in an Elongated Trap: Experimental Observation of Moving Magnetic Orders and Dark-Bright Solitons. <i>Physical Review Letters</i> , 2013, 111, 264101.	2.9	39
25	Scattering of atomic darkâ€“bright solitons from narrow impurities. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 065302.	0.6	38
26	Experimental realization of a long-lived striped Bose-Einstein condensate induced by momentum-space hopping. <i>Physical Review A</i> , 2019, 99, .	1.0	27
27	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	1.0	27
28	Matterâ€“wave interference in Boseâ€“Einstein condensates: A dispersive hydrodynamic perspective. <i>Physica D: Nonlinear Phenomena</i> , 2009, 238, 1311-1320.	1.3	25
29	Momentum-Space Josephson Effects. <i>Physical Review Letters</i> , 2018, 120, 120401.	2.9	24
30	Spin-momentum coupled Bose-Einstein condensates with lattice band pseudospins. <i>Nature Communications</i> , 2016, 7, 10867.	5.8	23
31	Dissipative shock waves generated by a quantum-mechanical piston. <i>Nature Communications</i> , 2018, 9, 4665.	5.8	22
32	Vortex Lattice Dynamics in a Dilute Gas BEC. <i>Journal of Low Temperature Physics</i> , 2004, 134, 683-688.	0.6	12
33	Experimental realization of a non-magnetic one-way spin switch. <i>Nature Communications</i> , 2019, 10, 3381.	5.8	11
34	Nonexponential Tunneling due to Mean-Field-Induced Swallowtails. <i>Physical Review Letters</i> , 2020, 125, 213401.	2.9	10
35	Rabi oscillations and Ramsey-type pulses in ultracold bosons: Role of interactions. <i>Physical Review A</i> , 2020, 101, .	1.0	6
36	Stability in turbulence: The interplay between shocks and vorticity in a superfluid with higher-order dispersion. <i>Physical Review A</i> , 2020, 102, .	1.0	5

#	ARTICLE	IF	CITATIONS
37	Gravitational caustics in an atom laser. Nature Communications, 2021, 12, 7226.	5.8	4
38	Vortex lines and vortex lattices in a Bose-Einstein condensate. , 0, , .		0