Alexander L Fetter

List of Publications by Year
in descending order

54 papers	3,531 citations	186209 28 h-index	182361 51 g-index
54 all docs	54 docs citations	54 times ranked	1494 citing authors

#	Article	IF	Citations
1	Rotating trapped Bose-Einstein condensates. Reviews of Modern Physics, 2009, 81, 647-691.	16.4	885
2	Vortices in a trapped dilute Bose-Einstein condensate. Journal of Physics Condensed Matter, 2001, 13, R135-R194.	0.7	427
3	Nonuniform states of an imperfect bose gas. Annals of Physics, 1972, 70, 67-101.	1.0	255
4	Stability of a Vortex in a Trapped Bose-Einstein Condensate. Physical Review Letters, 2000, 84, 5919-5923.	2.9	141
5	Rotating vortex lattice in a Bose-Einstein condensate trapped in combined quadratic and quartic radial potentials. Physical Review A, 2001, 64, .	1.0	138
6	Ground state and excited states of a confined condensed Bose gas. Physical Review A, 1996, 53, 4245-4249.	1.0	127
7	Quantum Theory of Superfluid Vortices. I. Liquid Helium II. Physical Review, 1967, 162, 143-153.	2.7	117
8	Dynamics of a vortex in a trapped Bose-Einstein condensate. Physical Review A, 2000, 62, .	1.0	117
9	Rapid rotation of a Bose-Einstein condensate in a harmonic plus quartic trap. Physical Review A, 2005, 71, .	1.0	100
10	Normal modes of a vortex in a trapped Bose-Einstein condensate. Physical Review A, 1998, 58, 3168-3179.	1.0	89
11	Anomalous Modes Drive Vortex Dynamics in Confined Bose-Einstein Condensates. Physical Review Letters, 2001, 86, 564-567.	2.9	86
12	Vortices in an Imperfect Bose Gas. IV. Translational Velocity. Physical Review, 1966, 151, 100-104.	2.7	75
13	Low-Lying Superfluid States in a Rotating Annulus. Physical Review, 1967, 153, 285-296.	2.7	71
14	Vortex dynamics in spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	59
15	Vortex Stability in a Trapped Bose Condensate. Journal of Low Temperature Physics, 1998, 113, 189-194.	0.6	55
16	Mixtures of Bose liquids at finite temperature. Journal of Low Temperature Physics, 1978, 33, 231-242.	0.6	54
17	Variational study of dilute Bose condensate in a harmonic trap. Journal of Low Temperature Physics, 1997, 106, 643-652.	0.6	48
18	Vortex nucleation in deformed rotating cylinders. Journal of Low Temperature Physics, 1974, 16, 533-555.	0.6	46

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19	Kelvin mode of a vortex in a nonuniform Bose-Einstein condensate. Physical Review A, 2004, 69, .	1.0	46
20	Superfluid density and critical current of3He in confined geometries. Journal of Low Temperature Physics, 1988, 70, 515-535.	0.6	45
21	Stability of a vortex in a small trapped Bose-Einstein condensate. Physical Review A, 1999, 60, 4910-4917.	1.0	41
22	Vortex stabilization in a small rotating asymmetric Bose-Einstein condensate. Physical Review A, 2001, 64, .	1.0	38
23	Lowest-Landau-level description of a Bose-Einstein condensate in a rapidly rotating anisotropic trap. Physical Review A, 2007, 75, .	1.0	36
24	Rotating trapped Bose-Einstein condensates. Laser Physics, 2008, 18, 1-11.	0.6	34
25	Dynamics of rapidly rotating Bose-Einstein condensates in a harmonic plus quartic trap. Physical Review A, 2005, 72, .	1.0	33
26	Vortices and Dynamics in Trapped Bose-Einstein Condensates. Journal of Low Temperature Physics, 2010, 161, 445-459.	0.6	32
27	Dynamics of a single ring of vortices in two-dimensional trapped Bose-Einstein condensates. Physical Review A, 2004, 70, .	1.0	30
28	Vortex dynamics in coherently coupled Bose-Einstein condensates. Physical Review A, 2017, 95, .	1.0	30
29	Dynamics of massive point vortices in a binary mixture of Bose-Einstein condensates. Physical Review A, 2021, 103, .	1.0	28
30	Superfluid vortex dynamics on a spherical film. Physical Review A, 2021, 103, .	1.0	26
31	Equilibrium Distribution of Rectilinear Vortices in a Rotating Container. Physical Review, 1966, 152, 183-189.	2.7	25
32	Bose-Einstein Condensates in Dilute Trapped Atomic Gases. Journal of Low Temperature Physics, 2002, 129, 263-321.	0.6	22
33	Motion of a vortex line near the boundary of a semi-infinite uniform condensate. Physical Review A, 2006, 74, .	1.0	22
34	Light scattering in liquid helium. Journal of Low Temperature Physics, 1972, 6, 487-504.	0.6	21
35	Quantized superfluid vortex dynamics on cylindrical surfaces and planar annuli. Physical Review A, 2017, 96, .	1.0	21
36	Small-amplitude normal modes of a vortex in a trapped Bose-Einstein condensate. Physical Review A, 2000, 61, .	1.0	19

#	Article	IF	Citations
37	Superfluid vortex dynamics on an ellipsoid and other surfaces of revolution. Physical Review A, 2022, 105, .	1.0	13
38	Superfluid vortex dynamics on a torus and other toroidal surfaces of revolution. Physical Review A, 2020, 101, .	1.0	9
39	Precessing textural kinks induced by superflow in3He-A. Journal of Low Temperature Physics, 1988, 70, 499-514.	0.6	8
40	Oscillations of a rapidly rotating annular Bose-Einstein condensate. Physical Review A, 2003, 68, .	1.0	8
41	Vortices in rotating trapped dilute Boseâ€“Einstein condensates. Physica C: Superconductivity and Its Applications, 2004, 404, 158-165.	0.6	8
42	Superfluid vortex dynamics on planar sectors and cones. Physical Review A, 2019, 99, .	1.0	7
43	Elastic Filaments and Vortex Waves. Physical Review A, 1971, 4, 2305-2308.	1.0	6
44	Normal mode solutions for absorbing boundary conditions. Geophysical Research Letters, 1985, 12, 145-148.	1.5	6
45	Chapter 1: Vortices in Rotating Superfluid3He. Progress in Low Temperature Physics, 1986, 10, 1-72.	0.2	5
46	Bose-Einstein condensate in a rapidly rotating nonsymmetric trap. Physical Review A, 2010, 81, .	1.0	5
47	Vortex Dynamics in a Spin-Orbit-Coupled Bose-Einstein Condensate. Journal of Low Temperature Physics, 2015, 180, 37-52.	0.6	5
48	Textures in3He-A: Magnetic deformation in a narrow slab. Journal of Low Temperature Physics, 1987, 67, 17-25.	0.6	3
49	Ground state and excited states of a trapped dilute condensed Bose gas. European Physical Journal D, 1996, 46, 3063-3069.	0.4	3
50	DILUTE BOSE-EINSTEIN CONDENSATE IN A TRAP: CHARACTERISTIC LENGTHS AND CRITICAL VELOCITIES. International Journal of Modern Physics B, 1999, 13, 643-649.	1.0	3
51	Rotating trapped Bose-Einstein condensates. AIP Conference Proceedings, 2008, , .	0.3	2
52	Anyons and Anyon Superconductivity. , 1995, , .		1
53	What can NMR say about textures in 3He-A?. AIP Conference Proceedings, 1983, , .	0.3	0
54	Excited states of a static dilute spherical Bose condensate in a trap. European Physical Journal D, 1996, 46, 547-548.	0.4	0