

Russell Nathan Bisset

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,280
citations

471061

17
h-index

433756

31
g-index

32
all docs

32
docs citations

32
times ranked

665
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Supersolid Formation in Dipolar Condensates. <i>Physical Review Letters</i> , 2022, 128, .	2.9	39
2	Quantum Droplets of Dipolar Mixtures. <i>Physical Review Letters</i> , 2021, 126, 025301.	2.9	71
3	Miscibility and stability of dipolar bosonic mixtures. <i>Physical Review A</i> , 2021, 103, .	1.0	8
4	Two-dimensional supersolidity in a dipolar quantum gas. <i>Nature</i> , 2021, 596, 357-361.	13.7	91
5	Static-response theory and the roton-maxon spectrum of a flattened dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2019, 100, .	1.0	3
6	Observation of a Dipolar Quantum Gas with Metastable Supersolid Properties. <i>Physical Review Letters</i> , 2019, 122, 130405.	2.9	288
7	Enhanced quantum spin fluctuations in a binary Bose-Einstein condensate. <i>Physical Review A</i> , 2018, 97, .	1.0	9
8	Optical Visibility and Core Structure of Vortex Filaments in a Bosonic Superfluid. <i>Journal of Experimental and Theoretical Physics</i> , 2018, 127, 804-811.	0.2	4
9	Excitations of a vortex line in an elongated dipolar condensate. <i>Physical Review A</i> , 2018, 98, .	1.0	10
10	Observation of a spinning top in a Bose-Einstein condensate. <i>Physical Review A</i> , 2017, 96, .	1.0	9
11	Vortex Reconnections and Rebounds in Trapped Atomic Bose-Einstein Condensates. <i>Physical Review X</i> , 2017, 7, .	2.8	53
12	Single and multiple vortex rings in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. <i>Physical Review A</i> , 2017, 95, .	1.0	24
13	Self-bound dipolar droplet: A localized matter wave in free space. <i>Physical Review A</i> , 2016, 94, .	1.0	140
14	Ground-state phase diagram of a dipolar condensate with quantum fluctuations. <i>Physical Review A</i> , 2016, 94, .	1.0	142
15	Scaling of fluctuations in a trapped binary condensate. <i>Physical Review A</i> , 2015, 91, .	1.0	7
16	Bifurcation and stability of single and multiple vortex rings in three-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2015, 92, .	1.0	15
17	Crystallization of a dilute atomic dipolar condensate. <i>Physical Review A</i> , 2015, 92, .	1.0	50
18	Robust vortex lines, vortex rings, and hopfions in three-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2015, 92, .	1.0	17

#	ARTICLE	IF	CITATIONS
19	Stability of a trapped dipolar quantum gas. <i>Physical Review A</i> , 2015, 91, .	1.0	6
20	Number Fluctuations of a Dipolar Condensate: Anisotropy and Slow Approach to the Thermodynamic Regime. <i>Physical Review Letters</i> , 2014, 113, 265301.	2.9	8
21	Depletion and fluctuations of a trapped dipolar Bose-Einstein condensate in the roton regime. <i>Physical Review A</i> , 2013, 88, .	1.0	28
22	Fingerprinting Rotons in a Dipolar Condensate: Super-Poissonian Peak in the Atom-Number Fluctuations. <i>Physical Review Letters</i> , 2013, 110, 265302.	2.9	39
23	Roton excitations in a trapped dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 88, .	1.0	29
24	Finite-resolution fluctuation measurements of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 88, .	1.0	4
25	Roton spectroscopy in a harmonically trapped dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2012, 86, .	1.0	58
26	Finite-temperature trapped dipolar Bose gas. <i>Physical Review A</i> , 2012, 86, .	1.0	21
27	Finite-temperature stability of a trapped dipolar Bose gas. <i>Physical Review A</i> , 2011, 83, .	1.0	17
28	Transition region properties of a trapped quasi-two-dimensional degenerate Bose gas. <i>Physical Review A</i> , 2009, 80, .	1.0	12
29	Quantitative test of the mean-field description of a trapped two-dimensional Bose gas. <i>Physical Review A</i> , 2009, 80, .	1.0	7
30	Quasicondensation and coherence in the quasi-two-dimensional trapped Bose gas. <i>Physical Review A</i> , 2009, 79, .	1.0	56
31	Analysis of the Holzmman-Chevallier-Krauth theory for the trapped quasi-two-dimensional Bose gas. <i>Physical Review A</i> , 2009, 79, .	1.0	15