

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 | Observation of a Dipolar Quantum Gas with Metastable Supersolid Properties. <i>Physical Review Letters</i> , 2019, 122, 130405. | 2.9 | 288 |
| 2 | Ground-state phase diagram of a dipolar condensate with quantum fluctuations. <i>Physical Review A</i> , 2016, 94, . | 1.0 | 142 |
| 3 | Self-bound dipolar droplet: A localized matter wave in free space. <i>Physical Review A</i> , 2016, 94, . | 1.0 | 140 |
| 4 | Two-dimensional supersolidity in a dipolar quantum gas. <i>Nature</i> , 2021, 596, 357-361. | 13.7 | 91 |
| 5 | Quantum Droplets of Dipolar Mixtures. <i>Physical Review Letters</i> , 2021, 126, 025301. | 2.9 | 71 |
| 6 | Roton spectroscopy in a harmonically trapped dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2012, 86, . | 1.0 | 58 |
| 7 | Quasicondensation and coherence in the quasi-two-dimensional trapped Bose gas. <i>Physical Review A</i> , 2009, 79, . | 1.0 | 56 |
| 8 | Vortex Reconnections and Rebounds in Trapped Atomic Bose-Einstein Condensates. <i>Physical Review X</i> , 2017, 7, . | 2.8 | 53 |
| 9 | Crystallization of a dilute atomic dipolar condensate. <i>Physical Review A</i> , 2015, 92, . | 1.0 | 50 |
| 10 | 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 |
| 11 | Two-Dimensional Supersolid Formation in Dipolar Condensates. <i>Physical Review Letters</i> , 2022, 128, . | 2.9 | 39 |
| 12 | Roton excitations in a trapped dipolar Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 88, . | 1.0 | 29 |
| 13 | Depletion and fluctuations of a trapped dipolar Bose-Einstein condensate in the roton regime. <i>Physical Review A</i> , 2013, 88, . | 1.0 | 28 |
| 14 | 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 |
| 15 | Finite-temperature trapped dipolar Bose gas. <i>Physical Review A</i> , 2012, 86, . | 1.0 | 21 |
| 16 | Finite-temperature stability of a trapped dipolar Bose gas. <i>Physical Review A</i> , 2011, 83, . | 1.0 | 17 |
| 17 | Robust vortex lines, vortex rings, and hopfions in three-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2015, 92, . | 1.0 | 17 |
| 18 | Analysis of the Holzmanna-Chevallier-Krauth theory for the trapped quasi-two-dimensional Bose gas. <i>Physical Review A</i> , 2009, 79, . | 1.0 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | Transition region properties of a trapped quasi-two-dimensional degenerate Bose gas. <i>Physical Review A</i> , 2009, 80, . | 1.0 | 12 |
| 21 | Excitations of a vortex line in an elongated dipolar condensate. <i>Physical Review A</i> , 2018, 98, . | 1.0 | 10 |
| 22 | Observation of a spinning top in a Bose-Einstein condensate. <i>Physical Review A</i> , 2017, 96, . | 1.0 | 9 |
| 23 | Enhanced quantum spin fluctuations in a binary Bose-Einstein condensate. <i>Physical Review A</i> , 2018, 97, . | 1.0 | 9 |
| 24 | 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 |
| 25 | Miscibility and stability of dipolar bosonic mixtures. <i>Physical Review A</i> , 2021, 103, . | 1.0 | 8 |
| 26 | Quantitative test of the mean-field description of a trapped two-dimensional Bose gas. <i>Physical Review A</i> , 2009, 80, . | 1.0 | 7 |
| 27 | Scaling of fluctuations in a trapped binary condensate. <i>Physical Review A</i> , 2015, 91, . | 1.0 | 7 |
| 28 | Stability of a trapped dipolar quantum gas. <i>Physical Review A</i> , 2015, 91, . | 1.0 | 6 |
| 29 | Finite-resolution fluctuation measurements of a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2013, 88, . | 1.0 | 4 |
| 30 | 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 |
| 31 | 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 |