Ricardo Carretero

List of Publications by Year
in descending order

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68 papers	2,501 citations	201575 27 h-index	189801 50 g-index
68 all docs	68 docs citations	68 times ranked	1224 citing authors

#	Article	IF	Citations
1	Kinkâ€“antikink stripe interactions in the two-dimensional sineâ€“Gordon equation. Communications in Nonlinear Science and Numerical Simulation, 2022, 109, 106123.	1.7	5
2	Existence, stability, and dynamics of monopole and Alice ring solutions in antiferromagnetic spinor condensates. Physical Review A, 2022, 105, .	1.0	9
3	Superfluid vortex multipoles and soliton stripes on a torus. Physical Review A, 2022, 105, .	1.0	1
4	Breather stripes and radial breathers of the two-dimensional sine-Gordon equation. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105596.	1.7	9
5	Stability of finite and infinite von KÃ¡rmÃ¡n vortex-cluster streets. Physical Review E, 2021, 103, 032205.	0.8	0
6	Pairwise interactions of ring dark solitons with vortices and other rings: Stationary states, stability features, and nonlinear dynamics. Physical Review A, 2021, 104, .	1.0	3
7	Non-conservative variational approximation for nonlinear SchrÃ¶dinger equations. European Physical Journal Plus, 2020, 135, 1.	1.2	3
8	Characterizing coherent structures in Bose-Einstein condensates through dynamic-mode decomposition. Physical Review E, 2019, 99, 062215.	0.8	2
9	Dynamics of interacting dark soliton stripes. Physical Review A, 2019, 100, .	1.0	6
10	Nonlinear waves in an experimentally motivated ring-shaped Bose-Einstein-condensate setup. Physical Review A, 2019, 99, .	1.0	2
11	Dynamics and stabilization of bright soliton stripes in the hyperbolic-dispersion nonlinear SchrÃ¶dinger equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 74, 268-281.	1.7	8
12	Pattern formation for a two-dimensional reaction-diffusion model with chemotaxis. Journal of Mathematical Analysis and Applications, 2019, 475, 1883-1909.	0.5	9
13	Reduced dynamics for one and two dark soliton stripes in the defocusing nonlinear SchrÃ¶dinger equation: A variational approach. Physical Review Research, 2019, 1, .	1.3	4
14	Multi-hump bright solitons in a SchrÃ¶dingerâ€“mKdV system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 837-845.	0.9	4
15	Planar and radial kinks in nonlinear Klein-Gordon models: Existence, stability, and dynamics. Physical Review E, 2018, 98, .	0.8	9
16	Hydrodynamics and two-dimensional dark lump solitons for polariton superfluids. Physical Review E, 2018, 98, 022205.	0.8	6
17	Adiabatic invariant analysis of dark and dark-bright soliton stripes in two-dimensional Bose-Einstein condensates. Physical Review A, 2018, 97, .	1.0	7
18	Vortex precession dynamics in general radially symmetric potential traps in two-dimensional atomic Bose-Einstein condensates. Physical Review A, 2017, 96, .	1.0	11

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19	Adiabatic Invariant Approach to Transverse Instability: Landau Dynamics of Soliton Filaments. Physical Review Letters, 2017, 118, 244101.	2.9	23
20	Single and multiple vortex rings in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2017, 95, .	1.0	24
21	N-soliton interactions: Effects of linear and nonlinear gain and loss. AIP Conference Proceedings, 2017, , .	0.3	2
22	Dark spherical shell solitons in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2016, 93, .	1.0	21
23	Generating and manipulating quantized vortices on-demand in a Bose-Einstein condensate: A numerical study. Physical Review A, 2016, 93, .	1.0	17
24	Solitons riding on solitons and the quantum Newton's cradle. Physical Review E, 2016, 93, 022202.	0.8	13
25	Stabilization of ring dark solitons in Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	19
26	Bifurcation and stability of single and multiple vortex rings in three-dimensional Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	15
27	Robust vortex lines, vortex rings, and hopfions in three-dimensional Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	17
28	Proper orthogonal decomposition methods for the analysis of real-time data: Exploring peak clustering in a secondhand smoke exposure intervention. Journal of Computational Science, 2015, 11, 102-111.	1.5	5
29	Dynamic and energetic stabilization of persistent currents in Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	10
30	Scattering and leapfrogging of vortex rings in a superfluid. Physics of Fluids, 2014, 26, 097101.	1.6	27
31	Exploring vortex dynamics in the presence of dissipation: Analytical and numerical results. Physical Review A, 2014, 89, .	1.0	28
32	A Modulus-Squared Dirichlet Boundary Condition for Time-Dependent Complex Partial Differential Equations and Its Application to the Nonlinear SchrÃ¶dinger Equation. SIAM Journal of Scientific Computing, 2014, 36, A1-A19.	1.3	19
33	A tale of two distributions: from few to many vortices in quasi-two-dimensional Boseâ€“Einstein condensates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140048.	1.0	16
34	Energy localization and transport in two-dimensional electrical lattices. IEICE Proceeding Series, 2014, 2, 334-337.	0.0	0
35	Directed ratchet transport in granular chains. Physical Review E, 2013, 88, 052202.	0.8	12
36	Characteristics of Two-Dimensional Quantum Turbulence in a Compressible Superfluid. Physical Review Letters, 2013, 111, 235301.	2.9	141

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37	Numerical stability of explicit Rungeâ€“Kutta finite-difference schemes for the nonlinear SchrÃ¶dinger equation. Applied Numerical Mathematics, 2013, 71, 24-40.	1.2	18
38	Inelastic collisions of solitary waves in anisotropic Boseâ€“Einstein condensates: sling-shot events and expanding collision bubbles. New Journal of Physics, 2013, 15, 113028.	1.2	55
39	Dynamics of a Few Corotating Vortices in Bose-Einstein Condensates. Physical Review Letters, 2013, 110, 225301.	2.9	89
40	Dark solitons and vortices in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric nonlinear media: From spontaneous symmetry breaking to nonlinear<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>phase transitions. Physical Review A, 2012, 86, .	1.0	148
41	Dynamics of vortex dipoles in confined Boseâ€“Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3044-3050.	0.9	72
42	Multiple dark-bright solitons in atomic Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	83
43	Guiding-center dynamics of vortex dipoles in Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	104
44	Controlling directed transport of matter-wave solitons using the ratchet effect. Physical Review A, 2011, 83, .	1.0	31
45	Two-dimensional quantum turbulence in Bose-Einstein condensates. , 2011, , .		0
46	Nonlinear excitations, stability inversions, and dissipative dynamics in quasi-one-dimensional polariton condensates. Physical Review B, 2011, 83, .	1.1	14
47	Bifurcations, stability, and dynamics of multiple matter-wave vortex states. Physical Review A, 2010, 82, .	1.0	65
48	Controlling the transverse instability of dark solitons and nucleation of vortices by a potential barrier. Physical Review A, 2010, 82, .	1.0	49
49	Manipulation of vortices by localized impurities in Bose-Einstein condensates. Physical Review A, 2009, 80, .	1.0	22
50	Phase separation and dynamics of two-component Bose-Einstein condensates. Physical Review A, 2009, 80, .	1.0	51
51	Dissipative Solitary Waves in Granular Crystals. Physical Review Letters, 2009, 102, 024102.	2.9	116
52	Spinor Bose-Einstein condensate flow past an obstacle. Physical Review A, 2009, 79, .	1.0	17
53	Nonlinear dynamics of Bose-condensed gases by means of a -Gaussian variational approach. Physica A: Statistical Mechanics and Its Applications, 2008, 387, 6032-6044.	1.2	15
54	Nonlinear waves in Boseâ€“Einstein condensates: physical relevance and mathematical techniques. Nonlinearity, 2008, 21, R139-R202.	0.6	279

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55	Radially symmetric nonlinear states of harmonically trapped Bose-Einstein condensates. Physical Review A, 2008, 77, .	1.0	43
56	Bright-dark soliton complexes in spinor Bose-Einstein condensates. Physical Review A, 2008, 77, .	1.0	133
57	Vortex structures formed by the interference of sliced condensates. Physical Review A, 2008, 77, .	1.0	28
58	Dynamics of vortex formation in merging Bose-Einstein condensate fragments. Physical Review A, 2008, 77, .	1.0	50
59	ÄŒerenkov-like radiation in a binary superfluid flow past an obstacle. Physical Review A, 2007, 75, .	1.0	28
60	Polarized states and domain walls in spinor Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	28
61	Faraday waves in Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	53
62	Three-Dimensional Nonlinear Lattices: From Oblique Vortices and Octupoles to Discrete Diamonds and Vortex Cubes. Physical Review Letters, 2005, 94, 203901.	2.9	44
63	Statics, dynamics, and manipulations of bright matter-wave solitons in optical lattices. Physical Review A, 2005, 71, .	1.0	37
64	VORTICES IN BOSEâ€“EINSTEIN CONDENSATES: SOME RECENT DEVELOPMENTS. Modern Physics Letters B, 2004, 18, 1481-1505.	1.0	85
65	Families of matter-waves in two-component Bose-Einstein condensates. European Physical Journal D, 2004, 28, 181-185.	0.6	99
66	THREE-DIMENSIONAL SOLITARY WAVES AND VORTICES IN A DISCRETE NONLINEAR SCHRÃ–DINGER LATTICE. , 2004, , .		0
67	Stability of dark solitons in a Bose-Einstein condensate trapped in an optical lattice. Physical Review A, 2003, 68, .	1.0	72
68	Localized breathing oscillations of Bose-Einstein condensates in periodic traps. Physical Review A, 2002, 66, .	1.0	66