Panayotis G Kevrekidis

List of Publications by Year
in descending order

522 papers	15,704 citations	19657 61 h-index	36028 97 g-index
527 all docs	527 docs citations	527 times ranked	4043 citing authors

#	Article	IF	Citations
1	THE DISCRETE NONLINEAR SCHRÃ—DINGER EQUATION: A SURVEY OF RECENT RESULTS. International Journal of Modern Physics B, 2001, 15, 2833-2900.	2.0	345
2	The Discrete Nonlinear SchrÃ¶dinger Equation. Springer Tracts in Modern Physics, 2009, , .	0.1	309
3	Dynamical Superfluid-Insulator Transition in a Chain of Weakly Coupled Bose-Einstein Condensates. Physical Review Letters, 2002, 89, 170402.	7.8	297
4	Nonlinear waves in Boseâ€"Einstein condensates: physical relevance and mathematical techniques. Nonlinearity, 2008, 21, R139-R202.	1.4	279
5	Experimental Observation of Oscillating and Interacting Matter Wave Dark Solitons. Physical Review Letters, 2008, 101, 130401.	7.8	252
6	Feshbach Resonance Management for Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 230401.	7.8	246
7	Discrete Breathers in One-Dimensional Diatomic Granular Crystals. Physical Review Letters, 2010, 104, 244302.	7.8	224
8	Wannier functions analysis of the nonlinear SchrÃ¶dinger equation with a periodic potential. Physical Review E, 2002, 66, 046608.	2.1	209
9	Ring Dark Solitons and Vortex Necklaces in Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 120403.	7.8	173
10	PATTERN FORMING DYNAMICAL INSTABILITIES OF BOSEâ€"EINSTEIN CONDENSATES. Modern Physics Letters B, 2004, 18, 173-202.	1.9	171
11	Nonequilibrium Dynamics and Superfluid Ring Excitations in Binary Bose-Einstein Condensates. Physical Review Letters, 2007, 99, 190402.	7.8	171
12	Granular acoustic switches and logic elements. Nature Communications, 2014, 5, 5311.	12.8	162
13	Counting eigenvalues via the Krein signature in infinite-dimensional Hamiltonian systems. Physica D: Nonlinear Phenomena, 2004, 195, 263-282.	2.8	150
14	Dark solitons and vortices in PT-symmetric nonlinear media: From spontaneous symmetry breaking to nonlinear PT phase transitions. Physical Review A, 2012, 86, .	2.5	148
15	Characteristics of Two-Dimensional Quantum Turbulence in a Compressible Superfluid. Physical Review Letters, 2013, 111, 235301.	7.8	141
16	Statistical Mechanics of a Discrete Nonlinear System. Physical Review Letters, 2000, 84, 3740-3743.	7.8	138
17	Stability of discrete solitons in nonlinear SchrÃ¶dinger lattices. Physica D: Nonlinear Phenomena, 2005, 212, 1-19.	2.8	137
18	Solitons in coupled nonlinear SchrÃ¶dinger models: A survey of recent developments. Reviews in Physics, 2016, 1, 140-153.	8.9	134

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19	Modulational instability of Gross-Pitaevskii-type equations in1+1dimensions. Physical Review A, 2003, 67, .	2.5	133
20	Bright-dark soliton complexes in spinor Bose-Einstein condensates. Physical Review A, 2008, 77, .	2.5	133
21	The Defocusing Nonlinear Schrödinger Equation. , 2015, , .		130
22	Observation of Discrete Solitons and Soliton Rotation in Optically Induced Periodic Ring Lattices. Physical Review Letters, 2006, 96, 083904.	7.8	129
23	Matter-wave solitons of collisionally inhomogeneous condensates. Physical Review A, 2005, 72, .	2.5	126
24	$\mathcal{PT}$-symmetric oligomers: Analytical solutions, linear stability, and nonlinear dynamics. Physical Review E, 2011, 83, 066608.	2.1	123
25	Dissipative Solitary Waves in Granular Crystals. Physical Review Letters, 2009, 102, 024102.	7.8	116
26	Origami-based impact mitigation via rarefaction solitary wave creation. Science Advances, 2019, 5, eaau2835.	10.3	113
27	Necklacelike Solitons in Optically Induced Photonic Lattices. Physical Review Letters, 2005, 94, 113902.	7.8	112
28	Multiple atomic dark solitons in cigar-shaped Bose-Einstein condensates. Physical Review A, 2010, 81, .	2.5	112
29	Persistence and stability of discrete vortices in nonlinear Schrödinger lattices. Physica D: Nonlinear Phenomena, 2005, 212, 20-53.	2.8	107
30	Nonlinearity Management in Optics: Experiment, Theory, and Simulation. Physical Review Letters, 2006, 97, 033903.	7.8	106
31	Spontaneous symmetry breaking in photonic lattices: Theory and experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 340, 275-280.	2.1	105
32	Highly nonlinear solitary waves in heterogeneous periodic granular media. Physica D: Nonlinear Phenomena, 2009, 238, 666-676.	2.8	105
33	Guiding-center dynamics of vortex dipoles in Bose-Einstein condensates. Physical Review A, 2011, 84, .	2.5	104
34	Highly nonlinear solitary waves in periodic dimer granular chains. Physical Review E, 2008, 77, 015601.	2.1	103
35	Families of matter-waves in two-component Bose-Einstein condensates. European Physical Journal D, 2004, 28, 181-185.	1.3	99
36	Stable Vortex–Bright-Soliton Structures in Two-Component Bose-Einstein Condensates. Physical Review Letters, 2010, 105, 160405.	7.8	99

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37	Solitons in quasi-one-dimensional Bose-Einstein condensates with competing dipolar and local interactions. Physical Review A, 2009, 79, .	2.5	93
38	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.	2.1	92
39	Averaging for Solitons with Nonlinearity Management. Physical Review Letters, 2003, 91, 240201.	7.8	90
40	Dynamics of a Few Corotating Vortices in Bose-Einstein Condensates. Physical Review Letters, 2013, 110, 225301.	7.8	89
41	Three-Component Soliton States in Spinor $F = 1$ Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063202.	7.8	89
42	VORTICES IN BOSE–EINSTEIN CONDENSATES: SOME RECENT DEVELOPMENTS. Modern Physics Letters B, 2004, 18, 1481-1505.	1.9	85
43	Localized breathing modes in granular crystals with defects. Physical Review E, 2009, 80, 066601.	2.1	85
44	Non-linear waves in lattices: past, present, future. IMA Journal of Applied Mathematics, 2011, 76, 389-423.	1.6	83
45	Multiple dark-bright solitons in atomic Bose-Einstein condensates. Physical Review A, 2011, 84, .	2.5	83
46	Symmetry breaking in symmetric and asymmetric double-well potentials. Physical Review E, 2006, 74, 056608.	2.1	82
47	Tunable vibrational band gaps in one-dimensional diatomic granular crystals with three-particle unit cells. Journal of Applied Physics, 2011, 109, .	2.5	82
48	Highly Nonlinear Wave Propagation in Elastic Woodpile Periodic Structures. Physical Review Letters, 2015, 114, 118002.	7.8	82
49	Solitons in triangular and honeycomb dynamical lattices with the cubic nonlinearity. Physical Review E, 2002, 66, 016609.	2.1	77
50	Discrete Breathers in a Forced-Damped Array of Coupled Pendula: Modeling, Computation, and Experiment. Physical Review Letters, 2009, 102, 224101.	7.8	77
51	Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. Physical Review E, 2010, 82, 056604.	2.1	77
52	Demonstrating an *In Situ* Topological Band Transition in Cylindrical Granular Chains. Physical Review Letters, 2017, 119, 024301.	7.8	75
53	Rabi Flopping Induces Spatial Demixing Dynamics. Physical Review Letters, 2011, 107, 193001.	7.8	73
54	Stability of dark solitons in a Bose-Einstein condensate trapped in an optical lattice. Physical Review A, 2003, 68, .	2.5	72

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55	Dynamics of vortex dipoles in confined Bose–Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3044-3050.	2.1	72
56	Kink-Kink and Kink-Antikink Interactions with Long-Range Tails. Physical Review Letters, 2019, 122, 171601.	7.8	70
57	Correlation effects in the quench-induced phase separation dynamics of a two species ultracold quantum gas. New Journal of Physics, 2018, 20, 043052.	2.9	68
58	Observation of double-charge discrete vortex solitons in hexagonal photonic lattices. Physical Review A, 2009, 79, .	2.5	65
59	Bifurcations, stability, and dynamics of multiple matter-wave vortex states. Physical Review A, 2010, 82, .	2.5	65
60	Beating dark–dark solitons in Bose–Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 115301.	1.5	65
61	Breathers in oscillator chains with Hertzian interactions. Physica D: Nonlinear Phenomena, 2013, 251, 39-59.	2.8	65
62	Long-range interactions of kinks. Physical Review D, 2019, 99, .	4.7	65
63	Nonlinear coherent structures in granular crystals. Journal of Physics Condensed Matter, 2017, 29, 413003.	1.8	64
64	Stability of multiple pulses in discrete systems. Physical Review E, 2001, 63, 036604.	2.1	61
65	On a class of discretizations of Hamiltonian nonlinear partial differential equations. Physica D: Nonlinear Phenomena, 2003, 183, 68-86.	2.8	61
66	Stable higher-order vortices and quasivortices in the discrete nonlinear Schrödinger equation. Physical Review E, 2004, 70, 056612.	2.1	61
67	Symmetry-Breaking Bifurcation in Nonlinear Schrödinger/Gross–Pitaevskii Equations. SIAM Journal on Mathematical Analysis, 2008, 40, 566-604.	1.9	61
68	Matter-Wave Dark Solitons: Stochastic versus Analytical Results. Physical Review Letters, 2010, 104, 174101.	7.8	61
69	Linearly coupled Bose-Einstein condensates: From Rabi oscillations and quasiperiodic solutions to oscillating domain walls and spiral waves. Physical Review A, 2004, 70, .	2.5	59
70	Symmetry-Breaking Bifurcation in the Nonlinear Schrödinger Equation with Symmetric Potentials. Communications in Mathematical Physics, 2011, 308, 795-844.	2.2	58
71	Counting eigenvalues via the Krein signature in infinite-dimensional Hamiltonian systems. Physica D: Nonlinear Phenomena, 2005, 201, 199-201.	2.8	57
72	Formation of rarefaction waves in origami-based metamaterials. Physical Review E, 2016, 93, 043004.	2.1	57

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73	Backward-wave propagation and discrete solitons in a left-handed electrical lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1242-1248.	2.1	55
74	Inelastic collisions of solitary waves in anisotropic Bose–Einstein condensates: sling-shot events and expanding collision bubbles. New Journal of Physics, 2013, 15, 113028.	2.9	55
75	Dynamics of lattice kinks. Physica D: Nonlinear Phenomena, 2000, 142, 113-152.	2.8	53
76	Faraday waves in Bose-Einstein condensates. Physical Review A, 2007, 76, .	2.5	53
77	Three-Dimensional Solitary Waves and Vortices in a Discrete Nonlinear Schrödinger Lattice. Physical Review Letters, 2004, 93, 080403.	7.8	52
78	Static and rotating domain-wall cross patterns in Bose-Einstein condensates. Physical Review A, 2004, 70, .	2.5	52
79	Multistable solitons in higher-dimensional cubic–quintic nonlinear Schrödinger lattices. Physica D: Nonlinear Phenomena, 2009, 238, 126-136.	2.8	52
80	Dark–bright soliton dynamics beyond the mean-field approximation. New Journal of Physics, 2017, 19, 073004.	2.9	52
81	Twisted localized modes. Physical Review E, 2001, 63, 036603.	2.1	51
82	Phase separation and dynamics of two-component Bose-Einstein condensates. Physical Review A, 2009, 80, .	2.5	51
83	Symmetry breaking in linearly coupled dynamical lattices. Physical Review E, 2007, 76, 066606.	2.1	50
84	Dynamics of vortex formation in merging Bose-Einstein condensate fragments. Physical Review A, 2008, 77, .	2.5	50
85	Lagrangian approach to the dynamics of dark matter-wave solitons. Physical Review A, 2005, 72, .	2.5	49
86	Controlling the transverse instability of dark solitons and nucleation of vortices by a potential barrier. Physical Review A, 2010, 82, .	2.5	49
87	Traveling waves in 2D hexagonal granular crystal lattices. Granular Matter, 2014, 16, 531-542.	2.2	48
88	Collisions of Three-Component Vector Solitons in Bose-Einstein Condensates. Physical Review Letters, 2020, 125, 170401.	7.8	48
89	Asymmetric wave propagation through nonlinear PT-symmetric oligomers. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444012.	2.1	47
90	Interactions and scattering of quantum vortices in a polariton fluid. Nature Communications, 2018, 9, 1467.	12.8	46

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91	Oscillations of dark solitons in trapped Bose-Einstein condensates. Physical Review E, 2005, 72, 016615.	2.1	45
92	Modulated amplitude waves in collisionally inhomogeneous Bose–Einstein condensates. Physica D: Nonlinear Phenomena, 2007, 229, 104-115.	2.8	45
93	Matter-wave solitons with a periodic, piecewise-constant scattering length. Physical Review A, 2008, 78, .	2.5	45
94	On the Existence of Solitary Traveling Waves for Generalized Hertzian Chains. Journal of Nonlinear Science, 2012, 22, 327-349.	2.1	45
95	Damped-driven granular chains: An ideal playground for dark breathers and multibreathers. Physical Review E, 2014, 89, 032924.	2.1	44
96	Hamiltonian averaging for solitons with nonlinearity management. Physical Review E, 2004, 70, 047604.	2.1	43
97	Dynamical trapping and transmission of matter-wave solitons in a collisionally inhomogeneous environment. Physical Review A, 2006, 74, .	2.5	43
98	Radially symmetric nonlinear states of harmonically trapped Bose-Einstein condensates. Physical Review A, 2008, 77, .	2.5	43
99	On the stability of multibreathers in Klein–Gordon chains. Nonlinearity, 2009, 22, 2269-2285.	1.4	43
100	Nonlinear dynamics in PT-symmetric lattices. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 365201.	2.1	43
101	Vector dark-antidark solitary waves in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 94, .	2.5	43
102	Dynamics of shallow dark solitons in a trapped gas of impenetrable bosons. Physical Review A, 2004, 70, .	2.5	42
103	Three Is a Crowd: Solitary Waves in Photorefractive Media with Three Potential Wells. SIAM Journal on Applied Dynamical Systems, 2006, 5, 598-633.	1.6	42
104	Stability of waves in discrete systems. Nonlinearity, 2001, 14, 533-566.	1.4	41
105	Nonlinear localized modes in two-dimensional electrical lattices. Physical Review E, 2013, 88, 022912.	2.1	41
106	Solitary waves under the competition of linear and nonlinear periodic potentials. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14151-14163.	2.1	40
107	Vortex–bright-soliton dipoles: Bifurcations, symmetry breaking, and soliton tunneling in a vortex-induced double well. Physical Review A, 2012, 86, .	2.5	40
108	Discrete vector solitons in two-dimensional nonlinear waveguide arrays: Solutions, stability, and dynamics. Physical Review E, 2003, 67, 056618.	2.1	39

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109	Discrete Klein–Gordon models with static kinks free of the Peierls–Nabarro potential. Journal of Physics A, 2005, 38, 7617-7627.	1.6	39
110	‡‡Traveling and stationary intrinsic localized modes and their spatial control in electrical lattices. Physical Review E, 2010, 81, 046605.	2.1	39
111	Nonlinear Stationary States in PT-Symmetric Lattices. SIAM Journal on Applied Dynamical Systems, 2013, 12, 1210-1236.	1.6	39
112	Kink-antikink collisions and multi-bounce resonance windows in higher-order field theories. Communications in Nonlinear Science and Numerical Simulation, 2021, 97, 105748.	3.3	39
113	Modulational Instability in a Layered Kerr Medium: Theory and Experiment. Physical Review Letters, 2006, 97, 234101.	7.8	38
114	Nonlinear $ mathcal {PT}$-symmetric plaquettes. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444021.	2.1	38
115	Scattering of atomic dark–bright solitons from narrow impurities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 065302.	1.5	38
116	Discrete compactons: some exact results. Journal of Physics A, 2002, 35, L641-L652.	1.6	37
117	Statics, dynamics, and manipulations of bright matter-wave solitons in optical lattices. Physical Review A, 2005, 71, .	2.5	37
118	Generalized neighbor-interaction models induced by nonlinear lattices. Physical Review E, 2008, 77, 016604.	2.1	37
119	Two-dimensional paradigm for symmetry breaking: The nonlinear Schrödinger equation with a four-well potential. Physical Review E, 2009, 80, 046611.	2.1	37
120	Compactons in Nonlinear Schrödinger Lattices with Strong Nonlinearity Management. Physical Review Letters, 2010, 105, 113901.	7.8	37
121	Coupled backward- and forward-propagating solitons in a composite right- and left-handed transmission line. Physical Review E, 2013, 88, 013203.	2.1	37
122	Kink dynamics in a parametric ϕ6 system: a model with controllably many internal modes. Journal of High Energy Physics, 2017, 2017, 1.	4.7	37
123	Stability of topological edge states under strong nonlinear effects. Physical Review B, 2021, 103, .	3.2	37
124	Bright compact breathers. Physical Review E, 2002, 65, 066614.	2.1	36
125	Bose–Einstein condensates in the presence of a magnetic trap and optical lattice: two-mode approximation. Nonlinearity, 2005, 18, 2491-2512.	1.4	36
126	Discrete breathers in a nonlinear electric line: Modeling, computation, and experiment. Physical Review E, 2011, 84, 026605.	2.1	36

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127	Two-soliton collisions in a near-integrable lattice system. Physical Review E, 2003, 68, 056603.	2.1	35
128	Wave propagation in a strongly nonlinear locally resonant granular crystal. Physica D: Nonlinear Phenomena, 2018, 365, 27-41.	2.8	35
129	Bifurcation of internal solitary wave modes from the essential spectrum. Physical Review E, 2000, 61, 3114-3121.	2.1	34
130	Many-body quantum dynamics in the decay of bent dark solitons of Bose–Einstein condensates. New Journal of Physics, 2017, 19, 123012.	2.9	34
131	Controlling the motion of dark solitons by means of periodic potentials: Application to Bose-Einstein condensates in optical lattices. Physical Review E, 2005, 71, 017602.	2.1	33
132	High-order-mode soliton structures in two-dimensional lattices with defocusing nonlinearity. Physical Review E, 2006, 74, 066606.	2.1	33
133	Soliton oscillations in collisionally inhomogeneous attractive Bose-Einstein condensates. Physical Review A, 2007, 76, .	2.5	33
134	Dark matter-wave solitons in the dimensionality crossover. Physical Review A, 2007, 76, .	2.5	33
135	Two-component nonlinear Schrödinger models with a double-well potential. Physica D: Nonlinear Phenomena, 2008, 237, 2922-2932.	2.8	33
136	Rabi switch of condensate wave functions in a multicomponent Bose gas. Physical Review A, 2008, 78, .	2.5	33
137	Discrete solitons in nonlinear Schrödinger lattices with a power-law nonlinearity. Physica D: Nonlinear Phenomena, 2009, 238, 67-76.	2.8	33
138	Dark-bright solitons in Bose–Einstein condensates at finite temperatures. New Journal of Physics, 2012, 14, 055006.	2.9	33
139	Dynamic generation of matter solitons from linear states via time-dependent scattering lengths. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 1173-1188.	1.5	32
140	Interaction of traveling waves with mass-with-mass defects within a Hertzian chain. Physical Review E, 2013, 87, 042911.	2.1	32
141	Head-on collisions of ring dark solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 157-164.	2.1	31
142	Vector solitons with an embedded domain wall. Physical Review E, 2005, 72, 066604.	2.1	31
143	Landau-Zener tunneling of Bose-Einstein condensates in an optical lattice. Physical Review A, 2005, 72, .	2.5	31
144	Excited states in the large density limit: a variational approach. Nonlinearity, 2010, 23, 1753-1770.	1.4	31

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145	Nonlinear low-to-high-frequency energy cascades in diatomic granular crystals. Physical Review E, 2015, 92, 062201.	2.1	31
146	Many-body dissipative flow of a confined scalar Bose-Einstein condensate driven by a Gaussian impurity. Physical Review A, 2018, 98, .	2.5	31
147	Nonlinear localized modes in waveguide bends. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 287-291.	2.1	30
148	Avoiding infrared catastrophes in trapped Bose-Einstein condensates. Physical Review A, 2004, 70, .	2.5	30
149	Dynamics and manipulation of matter-wave solitons in optical superlattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 210-215.	2.1	30
150	Dark breathers in granular crystals. Physical Review E, 2013, 87, 042202.	2.1	30
151	Exact static solutions for discrete ϕ^4 models free of the Peierls-Nabarro barrier: Discretized first-integral approach. Physical Review E, 2006, 74, 046609.	2.1	29
152	Dark solitons in discrete lattices: Saturable versus cubic nonlinearities. Physical Review E, 2007, 75, 066608.	2.1	29
153	Bose-Einstein condensates in the presence of a magnetic trap and optical lattice. Chaos, 2005, 15, 037114.	2.5	28
154	ÄŒerenkov-like radiation in a binary superfluid flow past an obstacle. Physical Review A, 2007, 75, .	2.5	28
155	Polarized states and domain walls in spinor Bose-Einstein condensates. Physical Review A, 2007, 76, .	2.5	28
156	Vortex structures formed by the interference of sliced condensates. Physical Review A, 2008, 77, .	2.5	28
157	Wave patterns generated by a supersonic moving body in a binary Bose-Einstein condensate. Physical Review A, 2009, 79, .	2.5	28
158	Exploring vortex dynamics in the presence of dissipation: Analytical and numerical results. Physical Review A, 2014, 89, .	2.5	28
159	Superdiffusive transport and energy localization in disordered granular crystals. Physical Review E, 2016, 93, 022902.	2.1	28
160	Focusing revisited: a renormalization/bifurcation approach. Nonlinearity, 2003, 16, 497-506.	1.4	27
161	Rotating matter waves in Boseâ€"Einstein condensates. Physica D: Nonlinear Phenomena, 2007, 233, 112-137.	2.8	27
162	Dark solitons in external potentials. Zeitschrift Fur Angewandte Mathematik Und Physik, 2008, 59, 559-599.	1.4	27

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163	Scattering and leapfrogging of vortex rings in a superfluid. Physics of Fluids, 2014, 26, 097101.	4.0	27
164	Traveling waves and their tails in locally resonant granular systems. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 195204.	2.1	27
165	Stability of Solitary Waves and Vortices in a 2D Nonlinear Dirac Model. Physical Review Letters, 2016, 116, 214101.	7.8	27
166	From solitons to rogue waves in nonlinear left-handed metamaterials. Physical Review E, 2017, 95, 032223.	2.1	27
167	Computing stationary solutions of the two-dimensional Grossâ€"Pitaevskii equation with deflated continuation. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 482-499.	3.3	27
168	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. Physical Review A, 2020, 102, .	2.5	27
169	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. Physical Review A, 2020, 102, .	2.5	27
170	Hysteresis loops and multi-stability: From periodic orbits to chaotic dynamics (and back) in diatomic granular crystals. Europhysics Letters, 2013, 101, 44003.	2.0	27
171	Being stable and discrete. Physica D: Nonlinear Phenomena, 2000, 135, 212-232.	2.8	26
172	Breather lattice and its stabilization for the modified Kortewegâ€"de Vries equation. Physical Review E, 2003, 68, 047701.	2.1	26
173	Resonant and non-resonant modulated amplitude waves for binary Boseâ€"Einstein condensates in optical lattices. Physica D: Nonlinear Phenomena, 2004, 196, 106-123.	2.8	26
174	Lyapunovâ€"Schmidt reduction algorithm for three-dimensional discrete vortices. Physica D: Nonlinear Phenomena, 2008, 237, 339-350.	2.8	26
175	Stability and dynamics of matter-wave vortices in the presence of collisional inhomogeneities and dissipative perturbations. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 155303.	1.5	26
176	Statics and dynamics of atomic dark-bright solitons in the presence of impurities. Physical Review A, 2011, 84, .	2.5	26
177	SO(2)-induced breathing patterns in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 93, .	2.5	26
178	Exponentially small splitting of heteroclinc orbits: from the rapidly forced pendulum to discrete solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 269, 120-129.	2.1	25
179	Higher-order lattice diffraction: solitons in the discrete NLS equation with next-nearest-neighbor interactions. Physica D: Nonlinear Phenomena, 2003, 183, 87-101.	2.8	25
180	Discrete nonlinear SchrÃ¶dinger equations free of the Peierlsâ€"Nabarro potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 324-332.	2.1	25

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181	Modulational instability in nonlinearity-managed optical media. Physical Review A, 2007, 75, .	2.5	25
182	Emergence and stability of vortex clusters in Bose–Einstein condensates: A bifurcation approach near the linear limit. Physica D: Nonlinear Phenomena, 2011, 240, 1449-1459.	2.8	25
183	Wave transmission in time- and space-variant helicoidal phononic crystals. Physical Review E, 2014, 90, 053201.	2.1	25
184	Localized structures in kagome lattices. Physical Review A, 2009, 79, .	2.5	24
185	Multibreathers in Klein–Gordon chains with interactions beyond nearest neighbors. Physica D: Nonlinear Phenomena, 2013, 242, 16-29.	2.8	24
186	Single and multiple vortex rings in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2017, 95, .	2.5	24
187	Floquet analysis of Kuznetsov-Ma breathers: A path towards spectral stability of rogue waves. Physical Review E, 2017, 96, 012202.	2.1	24
188	Two-dimensional rogue waves on zero background in a Benney-Roskes model. Physical Review Research, 2020, 2, .	3.6	24
189	Solitons in one-dimensional nonlinear Schrödinger lattices with a local inhomogeneity. Physical Review E, 2008, 77, 036614.	2.1	23
190	Dynamics of three noncorotating vortices in Bose-Einstein condensates. Physical Review E, 2014, 89, 042905.	2.1	23
191	Adiabatic Invariant Approach to Transverse Instability: Landau Dynamics of Soliton Filaments. Physical Review Letters, 2017, 118, 244101.	7.8	23
192	Phase diagram, stability and magnetic properties of nonlinear excitations in spinor Bose–Einstein condensates. New Journal of Physics, 2021, 23, 013015.	2.9	23
193	Reaction-diffusion spatial modeling of COVID-19: Greece and Andalusia as case examples. Physical Review E, 2021, 104, 024412.	2.1	23
194	Targeted transfer of solitons in continua and lattices. Physical Review E, 2002, 66, 015601.	2.1	22
195	Instabilities and bifurcations of nonlinear impurity modes. Physical Review E, 2003, 67, 046604.	2.1	22
196	Asymptotic reductions of two coupled (2 + 1)-dimensional nonlinear Schrödinger equations: application to Bose–Einstein condensates. Journal of Physics A, 2006, 39, 7705-7718.	1.6	22
197	Observation of dipole-like gap solitons in self-defocusing waveguide lattices. Optics Letters, 2007, 32, 3011.	3.3	22
198	Manipulation of vortices by localized impurities in Bose-Einstein condensates. Physical Review A, 2009, 80, .	2.5	22

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199	Dark–bright ring solitons in Bose–Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 191003.	1.5	22
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