Panayotis G Kevrekidis

List of Publications by Year
in descending order

522 papers	15,704 citations	19636 61 h-index	36008 97 g-index
527 all docs	527 docs citations	527 times ranked	4043 citing authors

#	Article	IF	Citations
1	Language competition on lattices. Studies in Applied Mathematics, 2022, 148, 219-247.	1.1	1
2	Unstable dynamics of solitary traveling waves in a lattice with long-range interactions. Wave Motion, 2022, 108, 102836.	1.0	3
3	Discrete embedded solitary waves and breathers in one-dimensional nonlinear lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 425, 127880.	0.9	2
4	Instabilities of a vortex-ring-bright soliton in trapped binary three-dimensional Bose-Einstein condensates. Physical Review A, 2022, 105, .	1.0	11
5	Dark solitons under higher-order dispersion. Optics Letters, 2022, 47, 1174.	1.7	14
6	On-demand generation of dark-bright soliton trains in Bose-Einstein condensates. Physical Review A, 2022, 105, .	1.0	2
7	Dark solitons in a trapped gas of long-range interacting bosons. Physical Review A, 2022, 105, .	1.0	1
8	Rogue and solitary waves in coupled phononic crystals. Physical Review E, 2022, 105, 034202.	0.8	5
9	Measurement and memory in the periodically driven complex Ginzburg-Landau equation. Physical Review E, 2022, 105, 034210.	0.8	1
10	Kink–antikink stripe interactions in the two-dimensional sine–Gordon equation. Communications in Nonlinear Science and Numerical Simulation, 2022, 109, 106123.	1.7	5
11	Neural networks enforcing physical symmetries in nonlinear dynamical lattices: The case example of the Ablowitz–Ladik model. Physica D: Nonlinear Phenomena, 2022, 434, 133264.	1.3	10
12	Moving discrete breathers in a β-FPU lattice revisited. Communications in Nonlinear Science and Numerical Simulation, 2022, 111, 106435.	1.7	0
13	Stationary multi-kinks in the discrete sine-Gordon equation. Nonlinearity, 2022, 35, 1036-1060.	0.6	5
14	Floquet solitons in square lattices: Existence, stability, and dynamics. Physical Review E, 2022, 105, 044211.	0.8	3
15	Existence, stability, and dynamics of monopole and Alice ring solutions in antiferromagnetic spinor condensates. Physical Review A, 2022, 105, .	1.0	9
16	Theoretical and numerical evidence for the potential realization of the Peregrine soliton in repulsive two-component Bose-Einstein condensates. Physical Review A, 2022, 105, .	1.0	7
17	A spectral analysis of the nonlinear Schrödinger equation in the co-exploding frame. Physica D: Nonlinear Phenomena, 2022, 439, 133396.	1.3	2
18	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

#	ARTICLE	IF	CITATIONS
19	Phase diagram, stability and magnetic properties of nonlinear excitations in spinor Bose–Einstein condensates. New Journal of Physics, 2021, 23, 013015.	1.2	23
20	Stability of topological edge states under strong nonlinear effects. Physical Review B, 2021, 103, .	1.1	37
21	On-demand generation of dark soliton trains in Bose-Einstein condensates. Physical Review A, 2021, 103, .	1.0	13
22	Decay of two-dimensional quantum turbulence in binary Bose-Einstein condensates. Physical Review A, 2021, 103, .	1.0	11
23	Universal reductions and solitary waves of weakly nonlocal defocusing nonlinear Schrödinger equations. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 085702.	0.7	6
24	Rogue waves of ultra-high peak amplitude: a mechanism for reaching up to a thousand times the background level. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200842.	1.0	6
25	On some configurations of oppositely charged trapped vortices in the plane. Advances in Applied Mathematics, 2021, 124, 102099.	0.4	0
26	Thermalization in the one-dimensional Salerno model lattice. Physical Review E, 2021, 103, 032211.	0.8	3
27	Easing COVID-19 lockdown measures while protecting the older restricts the deaths to the level of the full lockdown. Scientific Reports, 2021, 11, 5839.	1.6	14
28	Dark–dark soliton breathing patterns in multi-component Bose–Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2021, 54, 055301.	0.6	13
29	Nonlinear localized modes in two-dimensional hexagonally-packed magnetic lattices. New Journal of Physics, 2021, 23, 043008.	1.2	12
30	Exploring critical points of energy landscapes: From low-dimensional examples to phase field crystal PDEs. Communications in Nonlinear Science and Numerical Simulation, 2021, 96, 105679.	1.7	3
31	Kink–antikink interaction forces and bound states in a ϕ^4 model with quadratic and quartic dispersion. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 225701.	0.7	7
32	Localization in optical systems with an intensity-dependent dispersion. Quarterly of Applied Mathematics, 2021, 79, 641-665.	0.5	4
33	Kink-antikink collisions and multi-bounce resonance windows in higher-order field theories. Communications in Nonlinear Science and Numerical Simulation, 2021, 97, 105748.	1.7	39
34	Kink dynamics in a nonlinear beam model. Communications in Nonlinear Science and Numerical Simulation, 2021, 97, 105747.	1.7	6
35	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
36	Reaction-diffusion spatial modeling of COVID-19: Greece and Andalusia as case examples. Physical Review E, 2021, 104, 024412.	0.8	23

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37	Spontaneous Formation of Star-Shaped Surface Patterns in a Driven Bose-Einstein Condensate. Physical Review Letters, 2021, 127, 113001.	2.9	16
38	Solitary waves with intensity-dependent dispersion: variational characterization. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 445701.	0.7	4
39	Statistical mechanics of one-dimensional quantum droplets. Physical Review A, 2021, 104, .	1.0	12
40	Normal form for the onset of collapse: The prototypical example of the nonlinear Schrödinger equation. Physical Review E, 2021, 104, 044202.	0.8	3
41	Wave manipulation using a bistable chain with reversible impurities. Physical Review E, 2021, 104, 054209.	0.8	2
42	Formation and quench of homonuclear and heteronuclear quantum droplets in one dimension. Physical Review Research, 2021, 3, .	1.3	19
43	Transverse instability and dynamics of nonlocal bright solitons. Physical Review E, 2021, 104, 064205.	0.8	1
44	Stability analysis of ground states in a one-dimensional trapped spin-1 Bose gas. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105050.	1.7	5
45	Non-conservative variational approximation for nonlinear Schrödinger equations. European Physical Journal Plus, 2020, 135, 1.	1.2	3
46	Collisions of Three-Component Vector Solitons in Bose-Einstein Condensates. Physical Review Letters, 2020, 125, 170401.	2.9	48
47	Anisotropic diffusion and traveling waves of toxic proteins in neurodegenerative diseases. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126935.	0.9	5
48	Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited. Physical Review E, 2020, 102, 013209.	0.8	7
49	Nonlinear edge modes in a honeycomb electrical lattice near the Dirac points. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126664.	0.9	2
50	On the generation and propagation of solitary waves in integrable and nonintegrable nonlinear lattices. European Physical Journal Plus, 2020, 135, 1.	1.2	6
51	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. Physical Review A, 2020, 102, .	1.0	27
52	Kuznetsov–Ma breather-like solutions in the Salerno model. European Physical Journal Plus, 2020, 135, 1.	1.2	13
53	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. Physical Review A, 2020, 102, .	1.0	27
54	Deflation-based identification of nonlinear excitations of the three-dimensional Gross-Pitaevskii equation. Physical Review A, 2020, 102, .	1.0	12

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55	Dark-antidark spinor solitons in spin-1 Bose gases. Physical Review A, 2020, 102, .	1.0	6
56	Stability of traveling waves in a driven Frenkelâ€"Kontorova model. Communications in Nonlinear Science and Numerical Simulation, 2020, 85, 105236.	1.7	4
57	Bifurcation analysis of stationary solutions of two-dimensional coupled Grossâ€"Pitaevskii equations using deflated continuation. Communications in Nonlinear Science and Numerical Simulation, 2020, 87, 105255.	1.7	19
58	Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics. Physical Review A, 2020, 102, .	1.0	8
59	Collision of $\ddot{I}$•4 kinks free of the Peierlsâ€"Nabarro barrier in the regime of strong discreteness. Chaos, Solitons and Fractals, 2020, 138, 109854.	2.5	12
60	Existence and spectral stability of multi-pulses in discrete Hamiltonian lattice systems. Physica D: Nonlinear Phenomena, 2020, 408, 132414.	1.3	11
61	Vortex pairs in the discrete nonlinear SchrÃ¶dinger equation. Nonlinearity, 2020, 33, 2159-2180.	0.6	3
62	Nonlinearity and Topology. Advances in Dynamics, Patterns, Cognition, 2020, , 25-54.	0.2	4
63	Kinkâ€"antikink interaction forces and bound states in a biharmonic $\ddot{I}$• 4 model. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 375702.	0.7	8
64	Propagation of periodic wave trains along the magnetic field in a collision-free plasma. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 425701.	0.7	3
65	Rogue waves and periodic solutions of a nonlocal nonlinear SchrÃ¶dinger model. Physical Review Research, 2020, 2, .	1.3	8
66	Two-dimensional rogue waves on zero background in a Benney-Roskes model. Physical Review Research, 2020, 2, .	1.3	24
67	Speed-of-light pulses in a massless nonlinear Dirac equation. Physical Review E, 2019, 100, 022210.	0.8	3
68	Nonlinear excitations in magnetic lattices with long-range interactions. New Journal of Physics, 2019, 21, 063032.	1.2	17
69	Quasistable quantum vortex knots and links in anisotropic harmonically trapped Bose-Einstein condensates. Physical Review A, 2019, 99, .	1.0	13
70	Controlled generation of dark-bright soliton complexes in two-component and spinor Bose-Einstein condensates. Physical Review A, 2019, 100, .	1.0	12
71	Dynamics of interacting dark soliton stripes. Physical Review A, 2019, 100, .	1.0	6
72	2D solutions of the hyperbolic discrete nonlinear SchrÃ¶dinger equation. Physica Scripta, 2019, 94, 115203.	1.2	1

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73	Origami-based impact mitigation via rarefaction solitary wave creation. Science Advances, 2019, 5, eaau2835.	4.7	113
74	Nonlinear waves in an experimentally motivated ring-shaped Bose-Einstein-condensate setup. Physical Review A, 2019, 99, .	1.0	2
75	Evaluating the robustness of rogue waves under perturbations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2584-2588.	0.9	10
76	Kink-Kink and Kink-Antikink Interactions with Long-Range Tails. Physical Review Letters, 2019, 122, 171601.	2.9	70
77	Dynamics and stabilization of bright soliton stripes in the hyperbolic-dispersion nonlinear Schrödinger equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 74, 268-281.	1.7	8
78	Experimental and numerical observation of dark and bright breathers in the band gap of a diatomic electrical lattice. Physical Review E, 2019, 99, 032206.	0.8	21
79	Discrete Variants of the ϕ^4 Model: Exceptional Discretizations, Conservation Laws and Related Topics. Advances in Dynamics, Patterns, Cognition, 2019, , 111-136.	0.2	0
80	Ring dark solitons in three-dimensional Bose-Einstein condensates. Physical Review A, 2019, 100, .	1.0	13
81	Linear impurity modes in an electrical lattice: Theory and experiment. Physical Review E, 2019, 100, 062114.	0.8	8
82	Solitary waves in the Ablowitz–Ladik equation with power-law nonlinearity. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 065202.	0.7	5
83	Long-range interactions of kinks. Physical Review D, 2019, 99, .	1.6	65
84	Dynamical transitions between equilibria in a dissipative Klein–Gordon lattice. Journal of Mathematical Analysis and Applications, 2019, 472, 546-576.	0.5	2
85	Reduced dynamics for one and two dark soliton stripes in the defocusing nonlinear Schrödinger equation: A variational approach. Physical Review Research, 2019, 1, .	1.3	4
86	Breathers and other time-periodic solutions in an array of cantilevers decorated with magnets. Mathematics in Engineering, 2019, 1, 489-507.	0.5	4
87	Instabilities via negative Krein signature in a weakly non-Hamiltonian DNLS model†. Mathematics in Engineering, 2019, 1, 378-390.	0.5	2
88	N-break states in a chain of nonlinear oscillators. Physical Review E, 2019, 99, 022201.	0.8	0
89	Dark-bright soliton pairs: Bifurcations and collisions. Physical Review A, 2018, 97, .	1.0	13
90	Media with Onsite Forces: The Newton's Cradle and Beyond. SpringerBriefs in Physics, 2018, , 69-76.	0.2	0

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91	Interactions and scattering of quantum vortices in a polariton fluid. Nature Communications, 2018, 9, 1467.	5.8	46
92	Enhanced quantum spin fluctuations in a binary Bose-Einstein condensate. Physical Review A, 2018, 97, .	1.0	9
93	Three-Component Soliton States in Spinor <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>F</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn></mml:math> Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063202.	2.9	89
94	Direct measurement of superdiffusive energy transport in disordered granular chains. Nature Communications, 2018, 9, 640.	5.8	20
95	Bright breathers in nonlinear left-handed metamaterial lattices. Physica Scripta, 2018, 93, 025202.	1.2	12
96	Wave propagation in a strongly nonlinear locally resonant granular crystal. Physica D: Nonlinear Phenomena, 2018, 365, 27-41.	1.3	35
97	On the nonexistence of degenerate phase-shift discrete solitons in a dNLS nonlocal lattice. Physica D: Nonlinear Phenomena, 2018, 370, 1-13.	1.3	10
98	Transverse instabilities of stripe domains in magnetic thin films with perpendicular magnetic anisotropy. Physical Review B, 2018, 97, .	1.1	2
99	Coherent Structures in Granular Crystals. SpringerBriefs in Physics, 2018, , .	0.2	13
100	An energy-based stability criterion for solitary travelling waves in Hamiltonian lattices. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170192.	1.6	13
101	Resonant interaction of φ4 kink with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si24.gif" overflow="scroll"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric perturbation with spatially periodic gain/loss coefficient. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 62-76.	1.7	9
102	Computing stationary solutions of the two-dimensional Grossâ€"Pitaevskii equation with deflated continuation. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 482-499.	1.7	27
103	Non-symmetric kinks in Klein-Gordon chains free of the Peierls-Nabarro potential. IOP Conference Series: Materials Science and Engineering, 2018, 447, 012057.	0.3	1
104	Planar and radial kinks in nonlinear Klein-Gordon models: Existence, stability, and dynamics. Physical Review E, 2018, 98, .	0.8	9
105	Dissipative shock waves generated by a quantum-mechanical piston. Nature Communications, 2018, 9, 4665.	5.8	22
106	Resonant localized modes in electrical lattices with second-neighbor coupling. Physical Review E, 2018, 98, .	0.8	10
107	Nonlinear Beam Propagation in a Class of Complex Non- P T $$mathcal {PT}$$ -Symmetric Potentials. Springer Tracts in Modern Physics, 2018, , 557-579.	0.1	2
108	Correlation effects in the quench-induced phase separation dynamics of a two species ultracold quantum gas. New Journal of Physics, 2018, 20, 043052.	1.2	68

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109	Spectral and dynamical analysis of a single vortex ring in anisotropic harmonically trapped three-dimensional Bose-Einstein condensates. Physical Review A, 2018, 98, .	1.0	16
110	Dynamics of Dirac solitons in networks. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 435203.	0.7	20
111	Solitary waves of the two-dimensional Camassa–Holm–nonlinear Schrödinger equation. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 495202.	0.7	1
112	Solitary Waves in the Nonlinear Dirac Equation. Understanding Complex Systems, 2018, , 89-143.	0.3	5
113	Lattices with internal resonator defects. Physical Review E, 2018, 98, .	0.8	3
114	Phononic rogue waves. Physical Review E, 2018, 98, .	0.8	11
115	Multi-vortex crystal lattices in Bose–Einstein condensates with a rotating trap. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170553.	1.0	2
116	Many-body dissipative flow of a confined scalar Bose-Einstein condensate driven by a Gaussian impurity. Physical Review A, 2018, 98, .	1.0	31
117	Quasiperiodic granular chains and Hofstadter butterflies. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20170139.	1.6	15
118	Traveling Waves. SpringerBriefs in Physics, 2018, , 23-39.	0.2	0
119	Demonstration of Dispersive Rarefaction Shocks in Hollow Elliptical Cylinder Chains. Physical Review Letters, 2018, 120, 194101.	2.9	14
120	Peregrine solitons and gradient catastrophes in discrete nonlinear Schrödinger systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3064-3070.	0.9	12
121	Hydrodynamics and two-dimensional dark lump solitons for polariton superfluids. Physical Review E, 2018, 98, 022205.	0.8	6
122	Adiabatic invariant analysis of dark and dark-bright soliton stripes in two-dimensional Bose-Einstein condensates. Physical Review A, 2018, 97, .	1.0	7
123	Hamiltonian bifurcation perspective on two interacting vortex pairs: From symmetric to asymmetric leapfrogging, period doubling, and chaos. Physical Review Fluids, 2018, 3, .	1.0	4
124	Dark-bright soliton interactions beyond the integrable limit. Physical Review A, 2017, 95, .	1.0	16
125	Discrete breathers in a mass-in-mass chain with Hertzian local resonators. Physical Review E, 2017, 95, 022904.	0.8	16
126	Two-component dark-bright solitons in three-dimensional atomic Bose-Einstein condensates. Physical Review E, 2017, 95, 032201.	0.8	11

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127	Stability of single and multiple matter-wave dark solitons in collisionally inhomogeneous Boseâ€"Einstein condensates. International Journal of Modern Physics B, 2017, 31, 1742013.	1.0	6
128	From solitons to rogue waves in nonlinear left-handed metamaterials. Physical Review E, 2017, 95, 032223.	0.8	27
129	Experimental Study of Nonlinear Resonances and Anti-Resonances in a Forced, Ordered Granular Chain. Experimental Mechanics, 2017, 57, 505-520.	1.1	11
130	Asymptotic expansions and solitons of the Camassaâ€"Holm â€" nonlinear SchrÃ¶dinger equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3965-3971.	0.9	20
131	Discrete BPS skyrmions. Journal of Mathematical Physics, 2017, 58, 091501.	0.5	0
132	Vortex precession dynamics in general radially symmetric potential traps in two-dimensional atomic Bose-Einstein condensates. Physical Review A, 2017, 96, .	1.0	11
133	Unifying perspective: Solitary traveling waves as discrete breathers in Hamiltonian lattices and energy criteria for their stability. Physical Review E, 2017, 96, 032214.	0.8	19
134	Nonlinear coherent structures in granular crystals. Journal of Physics Condensed Matter, 2017, 29, 413003.	0.7	64
135	On the characterization of vortex configurations in the steady rotating Boseâ€"Einstein condensates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170602.	1.0	2
136	Analysis and observation of moving domain fronts in a ring of coupled electronic self-oscillators. Chaos, 2017, 27, 103125.	1.0	5
137	Emergence of dispersive shocks and rarefaction waves in power-law contact models. Physical Review E, 2017, 95, 062216.	0.8	16
138	Adiabatic Invariant Approach to Transverse Instability: Landau Dynamics of Soliton Filaments. Physical Review Letters, 2017, 118, 244101.	2.9	23
139	Single and multiple vortex rings in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2017, 95, .	1.0	24
140	Demonstrating an <i>InÂSitu</i> Topological Band Transition in Cylindrical Granular Chains. Physical Review Letters, 2017, 119, 024301.	2.9	75
141	Floquet analysis of Kuznetsov-Ma breathers: A path towards spectral stability of rogue waves. Physical Review E, 2017, 96, 012202.	0.8	24
142	Existence, stability, and dynamics of harmonically trapped one-dimensional multi-component solitary waves: The near-linear limit. Journal of Mathematical Physics, 2017, 58, .	0.5	3
143	To infinity and some glimpses of beyond. Nature Communications, 2017, 8, 1562.	5.8	9
144	Many-body quantum dynamics in the decay of bent dark solitons of Boseâ€"Einstein condensates. New Journal of Physics, 2017, 19, 123012.	1.2	34

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145	Kink dynamics in a parametric Ï•6 system: a model with controllably many internal modes. Journal of High Energy Physics, 2017, 2017, 1.	1.6	37
146	Darkâ€"bright soliton dynamics beyond the mean-field approximation. New Journal of Physics, 2017, 19, 073004.	1.2	52
147	Theoretical and Computational Advances in Nonlinear Dynamical Systems. Advances in Mathematical Physics, 2017, 2017, 1-3.	0.4	1
148	Intrinsic localized modes in coupled DNLS equations from the anti-continuum limit. Mathematics and Computers in Simulation, 2016, 127, 151-165.	2.4	1
149	A PT -Symmetric Dual-Core System with the Sine-Gordon Nonlinearity and Derivative Coupling. Symmetry, 2016, 8, 39.	1.1	5
150	Traveling Waves for the Mass in Mass Model of Granular Chains. Letters in Mathematical Physics, 2016, 106, 1067-1088.	0.5	20
151	Light dynamics in nonlinear trimers and twisted multicore fibers. Journal of Nonlinear Optical Physics and Materials, 2016, 25, 1650042.	1.1	18
152	DUPLICATE: Solitons in coupled nonlinear SchrÃ¶dinger models: A survey of recent developments. Reviews in Physics, 2016, , .	4.4	0
153	Dark solitons near potential and nonlinearity steps. Physical Review A, 2016, 94, .	1.0	8
154	Emergence and analysis of Kuramoto-Sakaguchi-like models as an effective description for the dynamics of coupled Wien-bridge oscillators. Physical Review E, 2016, 94, 062212.	0.8	4
155	Performing Hong-Ou-Mandel-type numerical experiments with repulsive condensates: The case of dark and dark-bright solitons. Physical Review A, 2016, 94, .	1.0	1
156	Existence, stability and dynamics of discrete solitary waves in a binary waveguide array. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 295205.	0.7	3
157	Breathers in a locally resonant granular chain with precompression. Physica D: Nonlinear Phenomena, 2016, 331, 27-47.	1.3	22
158	Energy Criterion for the Spectral Stability of Discrete Breathers. Physical Review Letters, 2016, 117, 094101.	2.9	20
159	Vortex-soliton complexes in coupled nonlinear SchrÃ¶dinger equations with unequal dispersion coefficients. Physical Review E, 2016, 94, 022207.	0.8	13
160	Solitons in coupled nonlinear SchrÃ¶dinger models: A survey of recent developments. Reviews in Physics, 2016, 1, 140-153.	4.4	134
161	Dark spherical shell solitons in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2016, 93, .	1.0	21
162	SO(2)-induced breathing patterns in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 93, .	1.0	26

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163	Conical wave propagation and diffraction in two-dimensional hexagonally packed granular lattices. Physical Review E, 2016, 93, 012909.	0.8	9
164	Superdiffusive transport and energy localization in disordered granular crystals. Physical Review E, 2016, 93, 022902.	0.8	28
165	Formation of rarefaction waves in origami-based metamaterials. Physical Review E, 2016, 93, 043004.	0.8	57
166	Nonlinear vibrational-state excitation and piezoelectric energy conversion in harmonically driven granular chains. Physical Review E, 2016, 93, 052203.	0.8	8
167	Stability of Solitary Waves and Vortices in a 2D Nonlinear Dirac Model. Physical Review Letters, 2016, 116, 214101.	2.9	27
168	Generating and manipulating quantized vortices on-demand in a Bose-Einstein condensate: A numerical study. Physical Review A, 2016, 93, .	1.0	17
169	Vector dark-antidark solitary waves in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 94, .	1.0	43
170	Strongly nonlinear waves in locally resonant granular chains. Nonlinearity, 2016, 29, 3496-3527.	0.6	21
171	Nonlinear Instabilities of Multiâ€Site Breathers in Kleinâ€"Gordon Lattices. Studies in Applied Mathematics, 2016, 137, 214-237.	1.1	11
172	Vortex nucleation in a dissipative variant of the nonlinear SchrÃ¶dinger equation under rotation. Physica D: Nonlinear Phenomena, 2016, 317, 1-14.	1.3	5
173	Wave mixing in coupled phononic crystals via a variable stiffness mechanism. Journal of the Mechanics and Physics of Solids, 2016, 95, 501-516.	2.3	10
174	Discrete solitons and vortices in anisotropic hexagonal and honeycomb lattices. Journal of Optics (United Kingdom), 2016, 18, 024008.	1.0	2
175	Solitary Waves of a <inline-formula> <tex-math notation="LaTeX">$mathcal {P}$</tex-math> </inline-formula><inline-formula> <tex-math notation="LaTeX">$mathcal {T}$</tex-math> </inline-formula>-Symmetric Nonlinear Dirac Equation. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 67-75.	1.9	12
176	Stabilization of ring dark solitons in Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	19
177	Bifurcation and stability of single and multiple vortex rings in three-dimensional Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	15
178	Nonlinear dressed states at the miscibility-immiscibility threshold. Physical Review A, 2015, 92, .	1.0	17
179	Multidimensional discrete compactons in nonlinear SchrÃ¶dinger lattices with strong nonlinearity management. Physical Review A, 2015, 92, .	1.0	7
180	Robust vortex lines, vortex rings, and hopfions in three-dimensional Bose-Einstein condensates. Physical Review A, 2015, 92, .	1.0	17

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181	High energy density in multisoliton collisions. Physical Review D, 2015, 92, .	1.6	22
182	Nonlinear resonances and antiresonances of a forced sonic vacuum. Physical Review E, 2015, 92, 063203.	0.8	11
183	Interplay between parity-time symmetry, supersymmetry, and nonlinearity: An analytically tractable case example. Physical Review E, 2015, 92, 042901.	0.8	21
184	Nonlinear low-to-high-frequency energy cascades in diatomic granular crystals. Physical Review E, 2015, 92, 062201.	0.8	31
185	Kink scattering from a parity-time-symmetric defect in the Ï•4 model. Communications in Nonlinear Science and Numerical Simulation, 2015, 29, 267-282.	1.7	16
186	When Linear Stability Does Not Exclude Nonlinear Instability. Physical Review Letters, 2015, 114, 214101.	2.9	20
187	Effect of the Ï•4 kinkâ€™s internal mode at scattering on a PT-symmetric defect. JETP Letters, 2015, 101, 497-502.	0.4	12
188	Dark-bright solitons in coupled nonlinear SchrÃ¶dinger equations with unequal dispersion coefficients. Physical Review E, 2015, 91, 012924.	0.8	21
189	Bright discrete solitons in spatially modulated DNLS systems. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 345201.	0.7	0
190	Dark-bright solitons and their lattices in atomic Bose-Einstein condensates. Physical Review A, 2015, 91, .	1.0	22
191	Staggered parity-time-symmetric ladders with cubic nonlinearity. Physical Review E, 2015, 91, 033207.	0.8	14
192	Solitons and vortices in two-dimensional discrete nonlinear SchrÃ¶dinger systems with spatially modulated nonlinearity. Physical Review E, 2015, 91, 043201.	0.8	12
193	Scattering of matter waves in spatially inhomogeneous environments. Physical Review A, 2015, 91, .	1.0	5
194	Stability and tunneling dynamics of a dark-bright soliton pair in a harmonic trap. Physical Review A, 2015, 91, .	1.0	13
195	Traveling waves and their tails in locally resonant granular systems. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 195204.	0.7	27
196	Generating functions, polynomials and vortices with alternating signs in Boseâ€"Einstein condensates. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 155205.	0.7	8
197	Highly Nonlinear Wave Propagation in Elastic Woodpile Periodic Structures. Physical Review Letters, 2015, 114, 118002.	2.9	82
198	Transitions from order to disorder in multiple dark and multiple dark-bright soliton atomic clouds. Physical Review E, 2015, 91, 032905.	0.8	15

#	ARTICLE	IF	CITATIONS
199	Solitary waves in a discrete nonlinear Dirac equation. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 055204.	0.7	9
200	? ? $\mathcal{P}\mathcal{T}$ -Symmetric Dimer in a Generalized Model of Coupled Nonlinear Oscillators. International Journal of Theoretical Physics, 2015, 54, 3960-3985.	0.5	4
201	The Defocusing Nonlinear Schrödinger Equation. , 2015, , .		130
202	Non-holonomic constraints and their impact on discretizations of Klein-Gordon lattice dynamical models. , 2015, , .		0
203	$\mathcal{P}\mathcal{T}$-symmetric sine-Gordon breathers. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 455101.	0.7	8
204	Self-trapping transition for a nonlinear impurity within a linear chain. Journal of Mathematical Physics, 2014, 55, 102703.	0.5	2
205	Discrete Breathers in a One-Dimensional Granular Metamaterial: Linear Lattice with Nonlinear Local Resonators. , 2014, , .		1
206	Instability dynamics and breather formation in a horizontally shaken pendulum chain. Physical Review E, 2014, 90, 042921.	0.8	15
207	Characterizing traveling-wave collisions in granular chains starting from integrable limits: The case of the Korteweg–de Vries equation and the Toda lattice. Physical Review E, 2014, 90, 022905.	0.8	21
208	Dynamics of three noncorotating vortices in Bose-Einstein condensates. Physical Review E, 2014, 89, 042905.	0.8	23
209	Dynamic and energetic stabilization of persistent currents in Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	10
210	Damped-driven granular chains: An ideal playground for dark breathers and multibreathers. Physical Review E, 2014, 89, 032924.	0.8	44
211	Variational method for nonconservative field theories: Formulation and two<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric case examples. Physical Review A, 2014, 89, .	1.0	22
212	Interaction of sine-Gordon kinks and breathers with a parity-time-symmetric defect. Physical Review E, 2014, 90, 052902.	0.8	16
213	Wave transmission in time- and space-variant helicoidal phononic crystals. Physical Review E, 2014, 90, 053201.	0.8	25
214	Granular acoustic switches and logic elements. Nature Communications, 2014, 5, 5311.	5.8	162
215	On the Spectral Stability of Kinks in Some Symmetric Variants of the Classical Klein–Gordon Field Theories. Studies in Applied Mathematics, 2014, 133, 298-317.	1.1	13
216	Scattering and leapfrogging of vortex rings in a superfluid. Physics of Fluids, 2014, 26, 097101.	1.6	27

#	Article	IF	Citations
217	Quasi-energies, parametric resonances, and stability limits in ac-driven PT-symmetric systems. Chaos, 2014, 24, 023136.	1.0	13
218	Chaotic behavior of three interacting vortices in a confined Bose-Einstein condensate. Chaos, 2014, 24, 024410.	1.0	18
219	Vector rogue waves and dark-bright boomeronic solitons in autonomous and nonautonomous settings. Physical Review E, 2014, 90, 042912.	0.8	14
220	$\mathscr{PT}$-symmetric ladders with a scattering core. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2824-2830.	0.9	7
221	Traveling waves in 2D hexagonal granular crystal lattices. Granular Matter, 2014, 16, 531-542.	1.1	48
222	Exploring vortex dynamics in the presence of dissipation: Analytical and numerical results. Physical Review A, 2014, 89, .	1.0	28
223	From nodeless clouds and vortices to gray ring solitons and symmetry-broken states in two-dimensional polariton condensates. Journal of Physics Condensed Matter, 2014, 26, 155801.	0.7	14
224	Beating dark-dark solitons and *Zitterbewegung* in spin-orbit-coupled Bose-Einstein condensates. Physical Review A, 2014, 89, .	1.0	22
225	A tale of two distributions: from few to many vortices in quasi-two-dimensional Bose–Einstein condensates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2014, 470, 20140048.	1.0	16
226	Justification of leading order quasicontinuum approximations of strongly nonlinear lattices. Discrete and Continuous Dynamical Systems, 2014, 34, 3403-3418.	0.5	7
227	sine-Gordon Equation: From Discrete to Continuum. Advances in Dynamics, Patterns, Cognition, 2014, , 31-57.	0.2	6
228	Breathers and surface modes in oscillator chains with Hertzian interactions. IEICE Proceeding Series, 2014, 1, 470-473.	0.0	2
229	Soliton Collisions. Advances in Dynamics, Patterns, Cognition, 2014, , 59-85.	0.2	0
230	Energy localization and transport in two-dimensional electrical lattices. IEICE Proceeding Series, 2014, 2, 334-337.	0.0	0
231	Breathers for the Discrete Nonlinear Schrödinger Equation with Nonlinear Hopping. Journal of Nonlinear Science, 2013, 23, 205-239.	1.0	10
232	Directed ratchet transport in granular chains. Physical Review E, 2013, 88, 052202.	0.8	12
233	Characteristics of Two-Dimensional Quantum Turbulence in a Compressible Superfluid. Physical Review Letters, 2013, 111, 235301.	2.9	141
234	Complex mode dynamics of coupled wave oscillators. Physical Review E, 2013, 88, 062908.	0.8	5

#	Article	IF	Citations
235	Coupled backward- and forward-propagating solitons in a composite right- and left-handed transmission line. Physical Review E, 2013, 88, 013203.	0.8	37
236	Solitary matter waves in combined linear and nonlinear potentials: Detection, stability, and dynamics. Physical Review A, 2013, 88, .	1.0	5
237	Nonlinear localized modes in two-dimensional electrical lattices. Physical Review E, 2013, 88, 022912.	0.8	41
238	Multibreathers in Klein–Gordon chains with interactions beyond nearest neighbors. Physica D: Nonlinear Phenomena, 2013, 242, 16-29.	1.3	24
239	Dark breathers in granular crystals. Physical Review E, 2013, 87, 042202.	0.8	30
240	Dark solitary waves in a class of collisionally inhomogeneous Bose-Einstein condensates. Physical Review A, 2013, 87, .	1.0	8
241	Scattering of atomic dark–bright solitons from narrow impurities. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 065302.	0.6	38
242	Breathers in oscillator chains with Hertzian interactions. Physica D: Nonlinear Phenomena, 2013, 251, 39-59.	1.3	65
243	Interaction of traveling waves with mass-with-mass defects within a Hertzian chain. Physical Review E, 2013, 87, 042911.	0.8	32
244	Matter-wave solitons in the counterflow of two immiscible superfluids. Physical Review A, 2013, 87, .	1.0	13
245	Inelastic collisions of solitary waves in anisotropic Bose–Einstein condensates: sling-shot events and expanding collision bubbles. New Journal of Physics, 2013, 15, 113028.	1.2	55
246	Few-particle vortex cluster equilibria in Bose–Einstein condensates: existence and stability. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 445001.	0.7	5
247	The drastic role of beyond-nearest-neighbor interactions on discrete two-dimensional dynamical lattices: a case example. Journal of Optics (United Kingdom), 2013, 15, 044013.	1.0	6
248	The Krein Matrix: General Theory and Concrete Applications in Atomic Bose--Einstein Condensates. SIAM Journal on Applied Mathematics, 2013, 73, 1368-1395.	0.8	4
249	Nonlinear Stationary States in PT-Symmetric Lattices. SIAM Journal on Applied Dynamical Systems, 2013, 12, 1210-1236.	0.7	39
250	Dynamics of a Few Corotating Vortices in Bose-Einstein Condensates. Physical Review Letters, 2013, 110, 225301.	2.9	89
251	Traveling waves for monomer chains with precompression. Nonlinearity, 2013, 26, 539-564.	0.6	20
252	Effects of parity-time symmetry in nonlinear Klein-Gordon models and their stationary kinks. Physical Review E, 2013, 88, 023203.	0.8	15

#	Article	IF	Citations
253	Parity-time-symmetric optical coupler with birefringent arms. Physical Review A, 2013, 87, .	1.0	22
254	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">PT</mml:mi></mml:math>-symmetric coupler with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï‡</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>)</mml:mo></mml:mo Physical Review A, 2013, 88, .	1.0	18
255	Nonlinear dynamics in PT-symmetric lattices. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 365201.	0.7	43
256	Hysteresis loops and multi-stability: From periodic orbits to chaotic dynamics (and back) in diatomic granular crystals. Europhysics Letters, 2013, 101, 44003.	0.7	27
257	Bifurcations of Asymmetric Vortices in Symmetric Harmonic Traps. Applied Mathematics Research EXpress, 2012, , .	1.0	1
258	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
259	Asymmetric wave propagation through nonlinear PT-symmetric oligomers. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444012.	0.7	47
260	Existence, Stability and Nonlinear Dynamics of Vortices and Vortex Clusters in Anisotropic Bose-Einstein Condensates. Progress in Optical Science and Photonics, 2012, , 543-581.	0.3	3
261	Nonlinear $ mathcal {PT}$-symmetric plaquettes. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 444021.	0.7	38
262	Ultrashort pulses and short-pulse equations in 2+1 dimensions. Physical Review A, 2012, 86, .	1.0	9
263	Vortexâ€"bright-soliton dipoles: Bifurcations, symmetry breaking, and soliton tunneling in a vortex-induced double well. Physical Review A, 2012, 86, .	1.0	40
264	Finite-temperature dynamics of matter-wave dark solitons in linear and periodic potentials: An example of an antidamped Josephson junction. Physical Review A, 2012, 86, .	1.0	1
265	Beating darkâ€"dark solitons in Boseâ€"Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 115301.	0.6	65
266	Dark-bright solitons in Boseâ€"Einstein condensates at finite temperatures. New Journal of Physics, 2012, 14, 055006.	1.2	33
267	On the Existence of Solitary Traveling Waves for Generalized Hertzian Chains. Journal of Nonlinear Science, 2012, 22, 327-349.	1.0	45
268	The higher-dimensional Ablowitzâ€"Ladik model: From (non-)integrability and solitary waves to surprising collapse properties and more exotic solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 982-986.	0.9	10
269	Dark lattice solitons in one-dimensional waveguide arrays with defocusing saturable nonlinearity and alternating couplings. European Physical Journal D, 2012, 66, 1.	0.6	11
270	Dynamics of Phase Transitions in a Piecewise Linear Diatomic Chain. Journal of Nonlinear Science, 2012, 22, 107-134.	1.0	12

#	Article	IF	Citations
271	Discrete breathers in a nonlinear electric line: Modeling, computation, and experiment. Physical Review E, 2011, 84, 026605.	0.8	36
272	Non-linear waves in lattices: past, present, future. IMA Journal of Applied Mathematics, 2011, 76, 389-423.	0.8	83
273	Darkâ€"bright ring solitons in Boseâ€"Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 191003.	0.6	22
274	Rabi Flopping Induces Spatial Demixing Dynamics. Physical Review Letters, 2011, 107, 193001.	2.9	73
275	Symmetry-Breaking Bifurcation in the Nonlinear SchrÃ¶dinger Equation with Symmetric Potentials. Communications in Mathematical Physics, 2011, 308, 795-844.	1.0	58
276	Symmetry breaking, coupling management, and localized modes in dual-core discrete nonlinear-SchrÃ¶dinger lattices. Journal of Computational and Applied Mathematics, 2011, 235, 3883-3888.	1.1	1
277	Variational approximations in discrete nonlinear SchrÃ¶dinger equations with next-nearest-neighbor couplings. Physica D: Nonlinear Phenomena, 2011, 240, 1205-1212.	1.3	19
278	Darkâ€"bright discrete solitons: A numerical study of existence, stability and dynamics. Physica D: Nonlinear Phenomena, 2011, 240, 767-778.	1.3	15
279	Emergence and stability of vortex clusters in Boseâ€"Einstein condensates: A bifurcation approach near the linear limit. Physica D: Nonlinear Phenomena, 2011, 240, 1449-1459.	1.3	25
280	Dynamics of darkâ€"bright solitons in cigar-shaped Boseâ€"Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 642-646.	0.9	92
281	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.	0.9	55
282	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
283	Multiple dark-bright solitons in atomic Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	83
284	Statics and dynamics of atomic dark-bright solitons in the presence of impurities. Physical Review A, 2011, 84, .	1.0	26
285	Guiding-center dynamics of vortex dipoles in Bose-Einstein condensates. Physical Review A, 2011, 84, .	1.0	104
286	Two-dimensional quantum turbulence in Bose-Einstein condensates. , 2011, , .		0
287	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">PT</mml:mi></mml:mrow></mml:math>-symmetric oligomers: Analytical solutions, linear stability, and nonlinear dynamics. Physical Review E, 2011, 83, 066608.	0.8	123
288	Nonlinear excitations, stability inversions, and dissipative dynamics in quasi-one-dimensional polariton condensates. Physical Review B, 2011, 83, .	1.1	14

#	Article	IF	Citations
289	Tunable vibrational band gaps in one-dimensional diatomic granular crystals with three-particle unit cells. Journal of Applied Physics, 2011, 109, .	1.1	82
290	Radial standing and self-similar waves for the hyperbolic cubic NLS in 2D. Nonlinearity, 2011, 24, 1523-1538.	0.6	15
291	MULTIBREATHER AND VORTEX BREATHER STABILITY IN KLEINâ€"GORDON LATTICES: EQUIVALENCE BETWEEN TWO DIFFERENT APPROACHES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2011, 21, 2161-2177.	0.7	18
292	Stationary states of a nonlinear SchrÃ¶dinger lattice with a harmonic trap. Journal of Mathematical Physics, 2011, 52, 092701.	0.5	7
293	Multiple dark solitons in Bose-Einstein condensates at finite temperatures. Discrete and Continuous Dynamical Systems - Series S, 2011, 4, 1199-1212.	0.6	7
294	Formation of fundamental solitons in the two-dimensional nonlinear SchrÃ¶dinger equation with a lattice potential. European Physical Journal D, 2010, 58, 141-146.	0.6	6
295	Bifurcations, stability, and dynamics of multiple matter-wave vortex states. Physical Review A, 2010, 82, .	1.0	65
296	Stable structures with high topological charge in nonlinear photonic quasicrystals. Physical Review A, 2010, 82, .	1.0	11
297	Collisional-inhomogeneity-induced generation of matter-wave dark solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3863-3868.	0.9	13
298	Excited states in the large density limit: a variational approach. Nonlinearity, 2010, 23, 1753-1770.	0.6	31
299	Stable Vortexâ€"Bright-Soliton Structures in Two-Component Bose-Einstein Condensates. Physical Review Letters, 2010, 105, 160405.	2.9	99
300	â€‡â€‡Traveling and stationary intrinsic localized modes and their spatial control in electrical lattices. Physical Review E, 2010, 81, 046605.	0.8	39
301	Controlling the transverse instability of dark solitons and nucleation of vortices by a potential barrier. Physical Review A, 2010, 82, .	1.0	49
302	Multiple atomic dark solitons in cigar-shaped Bose-Einstein condensates. Physical Review A, 2010, 81, .	1.0	112
303	Dark solitons in cigar-shaped Bose-Einstein condensates in double-well potentials. Physical Review A, 2010, 81, .	1.0	16
304	Distribution of eigenfrequencies for oscillations of the ground state in the Thomas-Fermi limit. Physical Review A, 2010, 81, .	1.0	12
305	Compactons in Nonlinear SchrÃ¶dinger Lattices with Strong Nonlinearity Management. Physical Review Letters, 2010, 105, 113901.	2.9	37
306	Existence and stability of multisite breathers in honeycomb and hexagonal lattices. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 235101.	0.7	8

#	ARTICLE	IF	CITATIONS
307	Existence, stability and dynamics of solitary waves in spinor dynamical lattices. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 505203.	0.7	0
308	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.	0.6	26
309	Matter-Wave Dark Solitons: Stochastic versus Analytical Results. Physical Review Letters, 2010, 104, 174101.	2.9	61
310	Discrete Breathers in One-Dimensional Diatomic Granular Crystals. Physical Review Letters, 2010, 104, 244302.	2.9	224
311	Intrinsic energy localization through discrete gap breathers in one-dimensional diatomic granular crystals. Physical Review E, 2010, 82, 056604.	0.8	77
312	Interaction of Excited States in Two-Species Boseâ€"Einstein Condensates: A Case Study. SIAM Journal on Applied Dynamical Systems, 2010, 9, 34-61.	0.7	10
313	Localized breathing modes in granular crystals with defects. Physical Review E, 2009, 80, 066601.	0.8	85
314	Manipulation of vortices by localized impurities in Bose-Einstein condensates. Physical Review A, 2009, 80, .	1.0	22
315	Two-dimensional paradigm for symmetry breaking: The nonlinear SchrÃ¶dinger equation with a four-well potential. Physical Review E, 2009, 80, 046611.	0.8	37
316	Solitons in quasi-one-dimensional Bose-Einstein condensates with competing dipolar and local interactions. Physical Review A, 2009, 79, .	1.0	93
317	Wave patterns generated by a supersonic moving body in a binary Bose-Einstein condensate. Physical Review A, 2009, 79, .	1.0	28
318	On the stability of multibreathers in Kleinâ€"Gordon chains. Nonlinearity, 2009, 22, 2269-2285.	0.6	43
319	Nonlinear from linear states in two-component Boseâ€"Einstein condensates. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 045206.	0.7	2
320	Vortex Solutions of the Defocusing Discrete Nonlinear SchroÌˆdinger Equation. , 2009, , .		0
321	Stability of localized structures in generalized DNLS equations near the anti-continuum limit. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 025207.	0.7	7
322	Discrete solitons in nonlinear SchrÃ¶dinger lattices with a power-law nonlinearity. Physica D: Nonlinear Phenomena, 2009, 238, 67-76.	1.3	33
323	Vortex solutions of the discrete Grossâ€"Pitaevskii equation starting from the anti-continuum limit. Physica D: Nonlinear Phenomena, 2009, 238, 1422-1431.	1.3	11
324	Non-nearest-neighbor interactions in nonlinear dynamical lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3688-3693.	0.9	14

#	Article	IF	Citations
325	Discrete baby and three-dimensional skyrmions. Theoretical and Mathematical Physics(Russian) Tj ETQq1 1 0.784314 rgBT /Overlock	0.3	2
326	Multistable solitons in higher-dimensional cubic–quintic nonlinear Schrödinger lattices. Physica D: Nonlinear Phenomena, 2009, 238, 126-136.	1.3	52
327	Collisionally inhomogeneous Bose–Einstein condensates in double-well potentials. Physica D: Nonlinear Phenomena, 2009, 238, 1362-1371.	1.3	11
328	Highly nonlinear solitary waves in heterogeneous periodic granular media. Physica D: Nonlinear Phenomena, 2009, 238, 666-676.	1.3	105
329	Nonlinear phenomena in degenerate quantum gases. Physica D: Nonlinear Phenomena, 2009, 238, 1289-1298.	1.3	14
330	Interlaced solitons and vortices in coupled DNLS lattices. Physica D: Nonlinear Phenomena, 2009, 238, 2216-2226.	1.3	8
331	Matter-wave solitons in the presence of collisional inhomogeneities: Perturbation theory and the impact of derivative terms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 262-268.	0.9	2
332	Thresholds for soliton creation in the Ablowitz–Ladik lattice. Mathematics and Computers in Simulation, 2009, 80, 693-706.	2.4	5
333	Extended nonlinear waves in multidimensional dynamical lattices. Mathematics and Computers in Simulation, 2009, 80, 721-731.	2.4	3
334	Phase separation and dynamics of two-component Bose-Einstein condensates. Physical Review A, 2009, 80, .	1.0	51
335	Localized structures in kagome lattices. Physical Review A, 2009, 79, .	1.0	24
336	Geometric stabilization of extended $S=2$ vortices in two-dimensional photonic lattices: Theoretical analysis, numerical computation, and experimental results. Physical Review A, 2009, 80, .	1.0	12
337	Observation of double-charge discrete vortex solitons in hexagonal photonic lattices. Physical Review A, 2009, 79, .	1.0	65
338	The Discrete Nonlinear Schrödinger Equation. Springer Tracts in Modern Physics, 2009, , .	0.1	309
339	Discrete Breathers in a Forced-Damped Array of Coupled Pendula: Modeling, Computation, and Experiment. Physical Review Letters, 2009, 102, 224101.	2.9	77
340	Dissipative Solitary Waves in Granular Crystals. Physical Review Letters, 2009, 102, 024102.	2.9	116
341	Spinor Bose-Einstein condensate flow past an obstacle. Physical Review A, 2009, 79, .	1.0	17
342	The One-Dimensional Case. Springer Tracts in Modern Physics, 2009, , 11-53.	0.1	2

#	Article	IF	Citations
343	The Defocusing Case. Springer Tracts in Modern Physics, 2009, , 117-141.	0.1	1
344	The Two-Dimensional Case. Springer Tracts in Modern Physics, 2009, , 55-98.	0.1	0
345	MultiComponent DNLS Equations. Springer Tracts in Modern Physics, 2009, , 153-171.	0.1	0
346	Lyapunovâ€"Schmidt reduction algorithm for three-dimensional discrete vortices. Physica D: Nonlinear Phenomena, 2008, 237, 339-350.	1.3	26
347	Effects of time-periodic linear coupling on two-component Boseâ€"Einstein condensates in two dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1631-1638.	0.9	12
348	Dark solitons in external potentials. Zeitschrift Fur Angewandte Mathematik Und Physik, 2008, 59, 559-599.	0.7	27
349	Two-component nonlinear SchrÃ¶dinger models with a double-well potential. Physica D: Nonlinear Phenomena, 2008, 237, 2922-2932.	1.3	33
350	Dipole and quadrupole solitons in optically-induced two-dimensional defocusing photonic lattices. Physica D: Nonlinear Phenomena, 2008, 237, 3123-3134.	1.3	17
351	Manipulations of Coherent Matter-Waves. , 2008, , 331-349.		0
352	Surface solitons in three dimensions. Physical Review E, 2008, 78, 036605.	0.8	16
353	Stability of quantized vortices in a Bose-Einstein condensate confined in an optical lattice. Physical Review A, 2008, 77, .	1.0	13
354	Disk-shaped Boseâ€"Einstein condensates in the presence of an harmonic trap and an optical lattice. Chaos, 2008, 18, 023101.	1.0	8
355	Nonlinear waves in Boseâ€"Einstein condensates: physical relevance and mathematical techniques. Nonlinearity, 2008, 21, R139-R202.	0.6	279
356	Radially symmetric nonlinear states of harmonically trapped Bose-Einstein condensates. Physical Review A, 2008, 77, .	1.0	43
357	Generalized neighbor-interaction models induced by nonlinear lattices. Physical Review E, 2008, 77, 016604.	0.8	37
358	Bright-dark soliton complexes in spinor Bose-Einstein condensates. Physical Review A, 2008, 77, .	1.0	133
359	High-speed kinks in a generalized discrete ϕ^4 mo Physical Review E, 2008, 77, 056603.	0.8	17
360	Stability of discrete dark solitons in nonlinear SchrÃ¶dinger lattices. Journal of Physics A: Mathematical and Theoretical, 2008, 41, 185206.	0.7	16

#	Article	IF	Citations
361	Discrete solitons and vortices in hexagonal and honeycomb lattices: Existence, stability, and dynamics. Physical Review E, 2008, 78, 066610.	0.8	18
362	Experimental Observation of Oscillating and Interacting Matter Wave Dark Solitons. Physical Review Letters, 2008, 101, 130401.	2.9	252
363	Matter-wave solitons with a periodic, piecewise-constant scattering length. Physical Review A, 2008, 78, .	1.0	45
364	Averaging of nonlinearity management with dissipation. Physical Review A, 2008, 78, .	1.0	6
365	Vortex structures formed by the interference of sliced condensates. Physical Review A, 2008, 77, .	1.0	28
366	Rabi switch of condensate wave functions in a multicomponent Bose gas. Physical Review A, 2008, 78, .	1.0	33
367	Solitons and vortices in honeycomb defocusing photonic lattices. Physical Review A, 2008, 78, .	1.0	17
368	Radiationless energy exchange in three-soliton collisions. Physical Review E, 2008, 78, 046604.	0.8	17
369	Symmetry-Breaking Bifurcation in Nonlinear Schrödinger/Gross–Pitaevskii Equations. SIAM Journal on Mathematical Analysis, 2008, 40, 566-604.	0.9	61
370	Dynamics of vortex formation in merging Bose-Einstein condensate fragments. Physical Review A, 2008, 77, .	1.0	50
371	Plane waves and localized modes in quadratic waveguide arrays. Physical Review A, 2008, 77, .	1.0	3
372	Solitons in one-dimensional nonlinear Schrödinger lattices with a local inhomogeneity. Physical Review E, 2008, 77, 036614.	0.8	23
373	Highly nonlinear solitary waves in periodic dimer granular chains. Physical Review E, 2008, 77, 015601.	0.8	103
374	Exact stationary solutions for the translationally invariant discrete nonlinear Schrödinger equations. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 1727-1746.	0.7	20
375	Exact static solutions to a translationally invariant discrete phi4model. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 6267-6286.	0.7	18
376	Ãerenkov-like radiation in a binary superfluid flow past an obstacle. Physical Review A, 2007, 75, .	1.0	28
377	Soliton oscillations in collisionally inhomogeneous attractive Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	33
378	X,Y, andZwaves: Extended structures in nonlinear lattices. Physical Review E, 2007, 75, 016607.	0.8	11

#	ARTICLE	IF	CITATIONS
379	Dark solitons in discrete lattices: Saturable versus cubic nonlinearities. Physical Review E, 2007, 75, 066608.	0.8	29
380	Comparative study of different discretizations of the ϕ^4 model. Physical Review E, 2007, 76, 026601.	0.8	19
381	Dark matter-wave solitons in the dimensionality crossover. Physical Review A, 2007, 76, .	1.0	33
382	Polarized states and domain walls in spinor Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	28
383	Symmetry breaking in linearly coupled dynamical lattices. Physical Review E, 2007, 76, 066606.	0.8	50
384	Nonequilibrium Dynamics and Superfluid Ring Excitations in Binary Bose-Einstein Condensates. Physical Review Letters, 2007, 99, 190402.	2.9	171
385	Stability of waves in multi-component DNLS system. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 4553-4566.	0.7	1
386	Solitary waves under the competition of linear and nonlinear periodic potentials. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14151-14163.	0.7	40
387	Observation of dipole-like gap solitons in self-defocusing waveguide lattices. Optics Letters, 2007, 32, 3011.	1.7	22
388	Skyrmion-like states in two- and three-dimensional dynamical lattices. Physical Review E, 2007, 75, 026603.	0.8	10
389	Modulational instability in nonlinearity-managed optical media. Physical Review A, 2007, 75, .	1.0	25
390	Faraday waves in Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.0	53
391	Nonlinearity from linearity: The Ermakovâ€"Pinney equation revisited. Mathematics and Computers in Simulation, 2007, 74, 196-202.	2.4	18
392	On a class of spatial discretizations of equations of the nonlinear SchrÃ¶dinger type. Mathematics and Computers in Simulation, 2007, 74, 343-351.	2.4	10
393	Asymptotic calculation of discrete non-linear wave interactions. Mathematics and Computers in Simulation, 2007, 74, 405-413.	2.4	3
394	Rotating matter waves in Boseâ€"Einstein condensates. Physica D: Nonlinear Phenomena, 2007, 233, 112-137.	1.3	27
395	Nonlinearity management in optics. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 2030029-2030030.	0.2	0
396	Modulated amplitude waves in collisionally inhomogeneous Boseâ€"Einstein condensates. Physica D: Nonlinear Phenomena, 2007, 229, 104-115.	1.3	45

#	ARTICLE	IF	CITATIONS
397	Nonlinearity Management in Optics: Experiment, Theory, and Simulation. Physical Review Letters, 2006, 97, 033903.	2.9	106
398	Observation of Discrete Solitons and Soliton Rotation in Optically Induced Periodic Ring Lattices. Physical Review Letters, 2006, 96, 083904.	2.9	129
399	Existence of bound states of a polaron with a breather in soft potentials. Physical Review B, 2006, 74, .	1.1	14
400	Three Is a Crowd: Solitary Waves in Photorefractive Media with Three Potential Wells. SIAM Journal on Applied Dynamical Systems, 2006, 5, 598-633.	0.7	42
401	Dynamical trapping and transmission of matter-wave solitons in a collisionally inhomogeneous environment. Physical Review A, 2006, 74, .	1.0	43
402	Discrete vector on-site vortices. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2006, 462, 2671-2694.	1.0	18
403	Modulational Instability in a Layered Kerr Medium: Theory and Experiment. Physical Review Letters, 2006, 97, 234101.	2.9	38
404	Dynamics and manipulation of matter-wave solitons in optical superlattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 210-215.	0.9	30
405	Discrete nonlinear Schrödinger equations free of the Peierls–Nabarro potential. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 324-332.	0.9	25
406	Standard nearest-neighbour discretizations of Klein–Gordon models cannot preserve both energy and linear momentum. Journal of Physics A, 2006, 39, 7217-7226.	1.6	21
407	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
408	High-order-mode soliton structures in two-dimensional lattices with defocusing nonlinearity. Physical Review E, 2006, 74, 066606.	0.8	33
409	Minimal model for tumor angiogenesis. Physical Review E, 2006, 73, 061926.	0.8	14
410	Exact static solutions for discrete φ^4 models free of the Peierls-Nabarro barrier: Discretized first-integral approach. Physical Review E, 2006, 74, 046609.	0.8	29
411	Symmetry breaking in symmetric and asymmetric double-well potentials. Physical Review E, 2006, 74, 056608.	0.8	82
412	Discrete vector solitons in one-dimensional lattices in photorefractive media. Physical Review E, 2006, 74, 026605.	0.8	7
413	Fractional-period excitations in continuum periodic systems. Physical Review A, 2006, 74, .	1.0	1
414	Statics and dynamics of an inhomogeneously nonlinear lattice. Physical Review E, 2006, 74, 036602.	0.8	16

#	Article	IF	Citations
415	Solitary waves in discrete media with four-wave mixing. Physical Review E, 2006, 73, 066601.	0.8	8
416	Discrete diffraction and solitons in light-induced Bessel-like photonic lattices. , 2006, , .		0
417	EQUATION-FREE, EFFECTIVE COMPUTATION FOR DISCRETE SYSTEMS: A TIME STEPPER BASED APPROACH. World Scientific Series on Nonlinear Science, Series B, 2006, , 279-300.	0.2	0
418	Domain-wall crosses and propellers in binary Bose–Einstein condensates. Mathematics and Computers in Simulation, 2005, 69, 400-412.	2.4	6
419	Domain walls of single-component Bose–Einstein condensates in external potentials. Mathematics and Computers in Simulation, 2005, 69, 334-345.	2.4	12
420	Counting eigenvalues via the Krein signature in infinite-dimensional Hamiltonian systems. Physica D: Nonlinear Phenomena, 2005, 201, 199-201.	1.3	57
421	Discrete peakons. Physica D: Nonlinear Phenomena, 2005, 207, 137-160.	1.3	6
422	Stability of discrete solitons in nonlinear Schrödinger lattices. Physica D: Nonlinear Phenomena, 2005, 212, 1-19.	1.3	137
423	Spontaneous symmetry breaking in photonic lattices: Theory and experiment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 340, 275-280.	0.9	105
424	Ring-shaped solitons in a "dartboard" photonic lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 341, 145-155.	0.9	11
425	Transient radiative behavior of Hamiltonian systems in finite domains. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 345, 1-9.	0.9	3
426	Transmission of nonlinear localized modes through waveguide bends. Mathematics and Computers in Simulation, 2005, 69, 223-234.	2.4	2
427	Persistence and stability of discrete vortices in nonlinear Schrödinger lattices. Physica D: Nonlinear Phenomena, 2005, 212, 20-53.	1.3	107
428	Localization of nonlinear excitations in curved waveguides. New Journal of Physics, 2005, 7, 52-52.	1.2	11
429	Bose–Einstein condensates in the presence of a magnetic trap and optical lattice: two-mode approximation. Nonlinearity, 2005, 18, 2491-2512.	0.6	36
430	Discrete Klein–Gordon models with static kinks free of the Peierls–Nabarro potential. Journal of Physics A, 2005, 38, 7617-7627.	1.6	39
431	Nonlinear lattices generated from harmonic lattices with geometric constraints. Physical Review B, 2005, 71, .	1.1	5
432	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.	0.8	33

25

#	ARTICLE	IF	CITATIONS
433	Bose-Einstein condensates in the presence of a magnetic trap and optical lattice. Chaos, 2005, 15, 037114.	1.0	28
434	Statics, dynamics, and manipulations of bright matter-wave solitons in optical lattices. Physical Review A, 2005, 71, .	1.0	37
435	Oscillations of dark solitons in trapped Bose-Einstein condensates. Physical Review E, 2005, 72, 016615.	0.8	45
436	Vector solitons with an embedded domain wall. Physical Review E, 2005, 72, 066604.	0.8	31
437	Landau-Zener tunneling of Bose-Einstein condensates in an optical lattice. Physical Review A, 2005, 72, .	1.0	31
438	Necklacelike Solitons in Optically Induced Photonic Lattices. Physical Review Letters, 2005, 94, 113902.	2.9	112
439	Stabilizing the discrete vortex of topological charge $S=2$. Physical Review E, 2005, 72, 016606.	0.8	8
440	Discrete solitons and vortices on anisotropic lattices. Physical Review E, 2005, 72, 046613.	0.8	20
441	EQUATION-FREE, EFFECTIVE COMPUTATION FOR DISCRETE SYSTEMS: A TIME STEPPER BASED APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 975-996.	0.7	19
442	Bose-Einstein Condensates in Superlattices. SIAM Journal on Applied Dynamical Systems, 2005, 4, 783-807.	0.7	19
443	Generation of dark solitons in oscillating Bose–Einstein condensates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 337, 441-448.	0.9	14
444	Lagrangian approach to the dynamics of dark matter-wave solitons. Physical Review A, 2005, 72, .	1.0	49
445	Matter-wave solitons of collisionally inhomogeneous condensates. Physical Review A, 2005, 72, .	1.0	126
446	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.	0.6	32
447	Linear stability of perturbed Hamiltonian systems: theory and a case example. Journal of Physics A, 2004, 37, 7509-7526.	1.6	14
448	Nonlinearity from geometric interactions: A case example. Physical Review E, 2004, 70, 047602.	0.8	1
449	Avoiding infrared catastrophes in trapped Bose-Einstein condensates. Physical Review A, 2004, 70, .	1.0	30
450	Dynamics of shallow dark solitons in a trapped gas of impenetrable bosons. Physical Review A, 2004, 70, .	1.0	42

#	ARTICLE	IF	CITATIONS
451	Linearly coupled Bose-Einstein condensates: From Rabi oscillations and quasiperiodic solutions to oscillating domain walls and spiral waves. Physical Review A, 2004, 70, .	1.0	59
452	Stable higher-order vortices and quasivortices in the discrete nonlinear Schrödinger equation. Physical Review E, 2004, 70, 056612.	0.8	61
453	Breather statics and dynamics in Klein-Gordon chains with a bend. Physical Review E, 2004, 69, 056609.	0.8	14
454	Three-Dimensional Solitary Waves and Vortices in a Discrete Nonlinear Schrödinger Lattice. Physical Review Letters, 2004, 93, 080403.	2.9	52
455	Solitary wave interactions in dispersive equations using Manton's approach. Physical Review E, 2004, 70, 057603.	0.8	21
456	VORTICES IN BOSE–EINSTEIN CONDENSATES: SOME RECENT DEVELOPMENTS. Modern Physics Letters B, 2004, 18, 1481-1505.	1.0	85
457	Families of matter-waves in two-component Bose-Einstein condensates. European Physical Journal D, 2004, 28, 181-185.	0.6	99
458	Counting eigenvalues via the Krein signature in infinite-dimensional Hamiltonian systems. Physica D: Nonlinear Phenomena, 2004, 195, 263-282.	1.3	150
459	Resonant and non-resonant modulated amplitude waves for binary Bose–Einstein condensates in optical lattices. Physica D: Nonlinear Phenomena, 2004, 196, 106-123.	1.3	26
460	Modulational instabilities and domain walls in coupled discrete nonlinear Schrödinger equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 330, 95-106.	0.9	15
461	Hamiltonian averaging for solitons with nonlinearity management. Physical Review E, 2004, 70, 047604.	0.8	43
462	PATTERN FORMING DYNAMICAL INSTABILITIES OF BOSE–EINSTEIN CONDENSATES. Modern Physics Letters B, 2004, 18, 173-202.	1.0	171
463	Static and rotating domain-wall cross patterns in Bose-Einstein condensates. Physical Review A, 2004, 70, .	1.0	52
464	Rich example of geometrically induced nonlinearity: From rotobreathers and kinks to moving localized modes and resonant energy transfer. Physical Review E, 2004, 70, 066627.	0.8	19
465	Linear and Nonlinear Bound States in Curved Waveguides. , 2004, , 107-120.		0
466	THREE-DIMENSIONAL SOLITARY WAVES AND VORTICES IN A DISCRETE NONLINEAR SCHRÖDINGER LATTICE. , 2004, , .		0
467	Discrete gap solitons in a diffraction-managed waveguide array. European Physical Journal D, 2003, 23, 421-436.	0.6	11
468	Guidance of matter waves through Y-junctions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 317, 513-522.	0.9	18

#	Article	IF	Citations
469	On a class of discretizations of Hamiltonian nonlinear partial differential equations. Physica D: Nonlinear Phenomena, 2003, 183, 68-86.	1.3	61
470	Higher-order lattice diffraction: solitons in the discrete NLS equation with next-nearest-neighbor interactions. Physica D: Nonlinear Phenomena, 2003, 183, 87-101.	1.3	25
471	Compactons in discrete nonlinear Klein–Gordon models. Mathematics and Computers in Simulation, 2003, 62, 79-89.	2.4	8
472	Breathers on a background: periodic and quasiperiodic solutions of extended discrete nonlinear wave systems. Mathematics and Computers in Simulation, 2003, 62, 65-78.	2.4	17
473	Nonlinear localized modes in waveguide bends. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 307, 287-291.	0.9	30
474	Two-soliton collisions in a near-integrable lattice system. Physical Review E, 2003, 68, 056603.	0.8	35
475	Feshbach Resonance Management for Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 230401.	2.9	246
476	Averaging for Solitons with Nonlinearity Management. Physical Review Letters, 2003, 91, 240201.	2.9	90
477	Discrete vector solitons in two-dimensional nonlinear waveguide arrays: Solutions, stability, and dynamics. Physical Review E, 2003, 67, 056618.	0.8	39
478	Modulational instability of Gross-Pitaevskii-type equations in1+1dimensions. Physical Review A, 2003, 67, .	1.0	133
479	Domain walls in two-component dynamical lattices. Physical Review E, 2003, 67, 036614.	0.8	15
480	Instabilities and bifurcations of nonlinear impurity modes. Physical Review E, 2003, 67, 046604.	0.8	22
481	Coupling fields and underlying space curvature: An augmented Lagrangian approach. Physical Review E, 2003, 67, 047602.	0.8	0
482	Using the finite domain remnant of the continuous spectrum to examine integrability: Effect of boundary conditions. Physical Review E, 2003, 68, 036612.	0.8	3
483	Effect of backleak in nephron dynamics. Physical Review E, 2003, 67, 061911.	0.8	3
484	Breather lattice and its stabilization for the modified Korteweg–de Vries equation. Physical Review E, 2003, 68, 047701.	0.8	26
485	Stability of dark solitons in a Bose-Einstein condensate trapped in an optical lattice. Physical Review A, 2003, 68, .	1.0	72
486	Ring Dark Solitons and Vortex Necklaces in Bose-Einstein Condensates. Physical Review Letters, 2003, 90, 120403.	2.9	173

#	Article	IF	Citations
487	Focusing revisited: a renormalization/bifurcation approach. Nonlinearity, 2003, 16, 497-506.	0.6	27
488	ON THE REDUCTION OF A NONLINEAR SCHRÃ—DINGER EQUATION WITH A PERIODIC POTENTIAL TO A VECTOR LATTICE. , 2003, , .		1
489	ON THE MODULATIONAL STABILITY OF GROSS-PITTAEVSKII TYPE EQUATIONS IN 1+1 DIMENSIONS. , 2003, , .		1
490	QUASILOCAL MODES AND THE BREAKING OF INTEGRABILITY. , 2003, , .		0
491	Discrete nonlinear model with substrate feedback. Physical Review E, 2002, 66, 046621.	0.8	8
492	Targeted transfer of solitons in continua and lattices. Physical Review E, 2002, 66, 015601.	0.8	22
493	Dynamical Superfluid-Insulator Transition in a Chain of Weakly Coupled Bose-Einstein Condensates. Physical Review Letters, 2002, 89, 170402.	2.9	297
494	Bright compact breathers. Physical Review E, 2002, 65, 066614.	0.8	36
495	Discrete compactons: some exact results. Journal of Physics A, 2002, 35, L641-L652.	1.6	37
496	Wannier functions analysis of the nonlinear Schrödinger equation with a periodic potential. Physical Review E, 2002, 66, 046608.	0.8	209
497	Solitons in triangular and honeycomb dynamical lattices with the cubic nonlinearity. Physical Review E, 2002, 66, 016609.	0.8	77
498	The parametrically modified sine-Gordon equation: spectral properties, collisions, resonances and their connection to integrability. Physica D: Nonlinear Phenomena, 2002, 170, 31-49.	1.3	11
499	Dark compactlets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 299, 166-172.	0.9	7
500	Solitons in coupled Toda lattices. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 303, 328-336.	0.9	7
501	THE DISCRETE NONLINEAR SCHRÃ—DINGER EQUATION: A SURVEY OF RECENT RESULTS. International Journal of Modern Physics B, 2001, 15, 2833-2900.	1.0	345
502	Stability of waves in discrete systems. Nonlinearity, 2001, 14, 533-566.	0.6	41
503	Multipulses in discrete Hamiltonian nonlinear systems. Physical Review E, 2001, 64, 026611.	0.8	13
504	Propagation failure, universal scalings and Goldstone modes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 279, 361-369.	0.9	14

#	ARTICLE	IF	CITATIONS
505	Head-on collisions of ring dark solitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 157-164.	0.9	31
506	Integrability revisited: a necessary condition. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 285, 383-389.	0.9	18
507	Twisted localized modes. Physical Review E, 2001, 63, 036603.	0.8	51
508	Stability of multiple pulses in discrete systems. Physical Review E, 2001, 63, 036604.	0.8	61
509	Ring solitons on vortices. Physical Review E, 2001, 64, 066611.	0.8	4
510	Soliton internal mode bifurcations:â€ƒPure power law?. Physical Review E, 2001, 63, 036602.	0.8	11
511	Nonequivalence of phonon modes in the sine-Gordon equation. Physical Review E, 2001, 64, 056608.	0.8	18
512	Hysteresis and metastability in the quenched turbulent dynamics of the complex Ginzburg-Landau equation. Physical Review E, 2001, 65, 016122.	0.8	6
513	Dynamics of lattice kinks. Physica D: Nonlinear Phenomena, 2000, 142, 113-152.	1.3	53
514	Being stable and discrete. Physica D: Nonlinear Phenomena, 2000, 135, 212-232.	1.3	26
515	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.	0.9	25
516	Parametric Quantum Resonances for Boseâ€"Einstein Condensates. Journal of Low Temperature Physics, 2000, 120, 205-212.	0.6	9
517	Bifurcation of internal solitary wave modes from the essential spectrum. Physical Review E, 2000, 61, 3114-3121.	0.8	34
518	Statistical Mechanics of a Discrete Nonlinear System. Physical Review Letters, 2000, 84, 3740-3743.	2.9	138
519	Solitons in two-dimensional arrays of Ï‡/sup (2)/ waveguides. , 0, , .		0
520	Landau-Zener tunneling of Bose-Einstein condensates in an optical lattice. , 0, , .		0
521	Quench induced vortex-bright-soliton formation in binary Bose-Einstein condensates. Journal of Physics B: Atomic, Molecular and Optical Physics, 0, , .	0.6	9
522	Mixed dispersion nonlinear SchrÃ¶dinger equation in higher dimensions: theoretical analysis and numerical computations. Journal of Physics A: Mathematical and Theoretical, 0, , .	0.7	3