

Panayotis G Kevrekidis

List of Publications by Year in descending order

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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	Language competition on lattices. <i>Studies in Applied Mathematics</i> , 2022, 148, 219-247.	2.4	1
2	Unstable dynamics of solitary traveling waves in a lattice with long-range interactions. <i>Wave Motion</i> , 2022, 108, 102836.	2.0	3
3	Discrete embedded solitary waves and breathers in one-dimensional nonlinear lattices. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 425, 127880.	2.1	2
4	Instabilities of a vortex-ring-bright soliton in trapped binary three-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	2.5	11
5	Dark solitons under higher-order dispersion. <i>Optics Letters</i> , 2022, 47, 1174.	3.3	14
6	On-demand generation of dark-bright soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	2.5	2
7	Dark solitons in a trapped gas of long-range interacting bosons. <i>Physical Review A</i> , 2022, 105, .	2.5	1
8	Rogue and solitary waves in coupled phononic crystals. <i>Physical Review E</i> , 2022, 105, 034202.	2.1	5
9	Measurement and memory in the periodically driven complex Ginzburg-Landau equation. <i>Physical Review E</i> , 2022, 105, 034210.	2.1	1
10	Kink-antikink stripe interactions in the two-dimensional sine-Gordon equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 109, 106123.	3.3	5
11	Neural networks enforcing physical symmetries in nonlinear dynamical lattices: The case example of the Ablowitz-Ladik model. <i>Physica D: Nonlinear Phenomena</i> , 2022, 434, 133264.	2.8	10
12	Moving discrete breathers in a \hat{H}^2 -FPU lattice revisited. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2022, 111, 106435.	3.3	0
13	Stationary multi-kinks in the discrete sine-Gordon equation. <i>Nonlinearity</i> , 2022, 35, 1036-1060.	1.4	5
14	Floquet solitons in square lattices: Existence, stability, and dynamics. <i>Physical Review E</i> , 2022, 105, 044211.	2.1	3
15	Existence, stability, and dynamics of monopole and Alice ring solutions in antiferromagnetic spinor condensates. <i>Physical Review A</i> , 2022, 105, .	2.5	9
16	Theoretical and numerical evidence for the potential realization of the Peregrine soliton in repulsive two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2022, 105, .	2.5	7
17	A spectral analysis of the nonlinear Schrödinger equation in the co-exploding frame. <i>Physica D: Nonlinear Phenomena</i> , 2022, 439, 133396.	2.8	2
18	Breather stripes and radial breathers of the two-dimensional sine-Gordon equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 94, 105596.	3.3	9

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19	Phase diagram, stability and magnetic properties of nonlinear excitations in spinor Bose-Einstein condensates. <i>New Journal of Physics</i> , 2021, 23, 013015.	2.9	23
20	Stability of topological edge states under strong nonlinear effects. <i>Physical Review B</i> , 2021, 103, .	3.2	37
21	On-demand generation of dark soliton trains in Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 103, .	2.5	13
22	Decay of two-dimensional quantum turbulence in binary Bose-Einstein condensates. <i>Physical Review A</i> , 2021, 103, .	2.5	11
23	Universal reductions and solitary waves of weakly nonlocal defocusing nonlinear Schrödinger equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 085702.	2.1	6
24	Rogue waves of ultra-high peak amplitude: a mechanism for reaching up to a thousand times the background level. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, 20200842.	2.1	6
25	On some configurations of oppositely charged trapped vortices in the plane. <i>Advances in Applied Mathematics</i> , 2021, 124, 102099.	0.7	0
26	Thermalization in the one-dimensional Salerno model lattice. <i>Physical Review E</i> , 2021, 103, 032211.	2.1	3
27	Easing COVID-19 lockdown measures while protecting the older restricts the deaths to the level of the full lockdown. <i>Scientific Reports</i> , 2021, 11, 5839.	3.3	14
28	Dark-dark soliton breathing patterns in multi-component Bose-Einstein condensates. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 055301.	1.5	13
29	Nonlinear localized modes in two-dimensional hexagonally-packed magnetic lattices. <i>New Journal of Physics</i> , 2021, 23, 043008.	2.9	12
30	Exploring critical points of energy landscapes: From low-dimensional examples to phase field crystal PDEs. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 96, 105679.	3.3	3
31	Kink-antikink interaction forces and bound states in a \mathbb{Z}_4 model with quadratic and quartic dispersion. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 225701.	2.1	7
32	Localization in optical systems with an intensity-dependent dispersion. <i>Quarterly of Applied Mathematics</i> , 2021, 79, 641-665.	0.7	4
33	Kink-antikink collisions and multi-bounce resonance windows in higher-order field theories. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 97, 105748.	3.3	39
34	Kink dynamics in a nonlinear beam model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 97, 105747.	3.3	6
35	Pairwise interactions of ring dark solitons with vortices and other rings: Stationary states, stability features, and nonlinear dynamics. <i>Physical Review A</i> , 2021, 104, .	2.5	3
36	Reaction-diffusion spatial modeling of COVID-19: Greece and Andalusia as case examples. <i>Physical Review E</i> , 2021, 104, 024412.	2.1	23

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37	Spontaneous Formation of Star-Shaped Surface Patterns in a Driven Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2021, 127, 113001.	7.8	16
38	Solitary waves with intensity-dependent dispersion: variational characterization. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 445701.	2.1	4
39	Statistical mechanics of one-dimensional quantum droplets. <i>Physical Review A</i> , 2021, 104, .	2.5	12
40	Normal form for the onset of collapse: The prototypical example of the nonlinear Schrödinger equation. <i>Physical Review E</i> , 2021, 104, 044202.	2.1	3
41	Wave manipulation using a bistable chain with reversible impurities. <i>Physical Review E</i> , 2021, 104, 054209.	2.1	2
42	Formation and quench of homonuclear and heteronuclear quantum droplets in one dimension. <i>Physical Review Research</i> , 2021, 3, .	3.6	19
43	Transverse instability and dynamics of nonlocal bright solitons. <i>Physical Review E</i> , 2021, 104, 064205.	2.1	1
44	Stability analysis of ground states in a one-dimensional trapped spin-1 Bose gas. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 83, 105050.	3.3	5
45	Non-conservative variational approximation for nonlinear Schrödinger equations. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	3
46	Collisions of Three-Component Vector Solitons in Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2020, 125, 170401.	7.8	48
47	Anisotropic diffusion and traveling waves of toxic proteins in neurodegenerative diseases. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126935.	2.1	5
48	Solitary and periodic waves in collisionless plasmas: The Adlam-Allen model revisited. <i>Physical Review E</i> , 2020, 102, 013209.	2.1	7
49	Nonlinear edge modes in a honeycomb electrical lattice near the Dirac points. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126664.	2.1	2
50	On the generation and propagation of solitary waves in integrable and nonintegrable nonlinear lattices. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	6
51	Observation and analysis of multiple dark-antidark solitons in two-component Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	2.5	27
52	Kuznetsovâ€™Ma breather-like solutions in the Salerno model. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	13
53	Parametrically excited star-shaped patterns at the interface of binary Bose-Einstein condensates. <i>Physical Review A</i> , 2020, 102, .	2.5	27
54	Deflation-based identification of nonlinear excitations of the three-dimensional Gross-Pitaevskii equation. <i>Physical Review A</i> , 2020, 102, .	2.5	12

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55	Dark-antidark spinor solitons in spin-1 Bose gases. <i>Physical Review A</i> , 2020, 102, .	2.5	6
56	Stability of traveling waves in a driven Frenkel-Kontorova model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 85, 105236.	3.3	4
57	Bifurcation analysis of stationary solutions of two-dimensional coupled Gross-Pitaevskii equations using deflated continuation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 87, 105255.	3.3	19
58	Many-body effects on second-order phase transitions in spinor Bose-Einstein condensates and breathing dynamics. <i>Physical Review A</i> , 2020, 102, .	2.5	8
59	Collision of \mathbb{Z}_4 kinks free of the Peierls-Nabarro barrier in the regime of strong discreteness. <i>Chaos, Solitons and Fractals</i> , 2020, 138, 109854.	5.1	12
60	Existence and spectral stability of multi-pulses in discrete Hamiltonian lattice systems. <i>Physica D: Nonlinear Phenomena</i> , 2020, 408, 132414.	2.8	11
61	Vortex pairs in the discrete nonlinear Schrödinger equation. <i>Nonlinearity</i> , 2020, 33, 2159-2180.	1.4	3
62	Nonlinearity and Topology. <i>Advances in Dynamics, Patterns, Cognition</i> , 2020, , 25-54.	0.3	4
63	Kink-antikink interaction forces and bound states in a biharmonic \mathbb{Z}_4 model. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 375702.	2.1	8
64	Propagation of periodic wave trains along the magnetic field in a collision-free plasma. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 425701.	2.1	3
65	Rogue waves and periodic solutions of a nonlocal nonlinear Schrödinger model. <i>Physical Review Research</i> , 2020, 2, .	3.6	8
66	Two-dimensional rogue waves on zero background in a Benney-Roskes model. <i>Physical Review Research</i> , 2020, 2, .	3.6	24
67	Speed-of-light pulses in a massless nonlinear Dirac equation. <i>Physical Review E</i> , 2019, 100, 022210.	2.1	3
68	Nonlinear excitations in magnetic lattices with long-range interactions. <i>New Journal of Physics</i> , 2019, 21, 063032.	2.9	17
69	Quasistable quantum vortex knots and links in anisotropic harmonically trapped Bose-Einstein condensates. <i>Physical Review A</i> , 2019, 99, .	2.5	13
70	Controlled generation of dark-bright soliton complexes in two-component and spinor Bose-Einstein condensates. <i>Physical Review A</i> , 2019, 100, .	2.5	12
71	Dynamics of interacting dark soliton stripes. <i>Physical Review A</i> , 2019, 100, .	2.5	6
72	2D solutions of the hyperbolic discrete nonlinear Schrödinger equation. <i>Physica Scripta</i> , 2019, 94, 115203.	2.5	1

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73	Origami-based impact mitigation via rarefaction solitary wave creation. Science Advances, 2019, 5, eaau2835.	10.3	113
74	Nonlinear waves in an experimentally motivated ring-shaped Bose-Einstein-condensate setup. Physical Review A, 2019, 99, .	2.5	2
75	Evaluating the robustness of rogue waves under perturbations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2584-2588.	2.1	10
76	Kink-Kink and Kink-Antikink Interactions with Long-Range Tails. Physical Review Letters, 2019, 122, 171601.	7.8	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.	3.3	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.	2.1	21
79	Discrete Variants of the ϕ^4 Model: Exceptional Discretizations, Conservation Laws and Related Topics. Advances in Dynamics, Patterns, Cognition, 2019, , 111-136.	0.3	0
80	Ring dark solitons in three-dimensional Bose-Einstein condensates. Physical Review A, 2019, 100, .	2.5	13
81	Linear impurity modes in an electrical lattice: Theory and experiment. Physical Review E, 2019, 100, 062114.	2.1	8
82	Solitary waves in the Ablowitz-Ladik equation with power-law nonlinearity. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 065202.	2.1	5
83	Long-range interactions of kinks. Physical Review D, 2019, 99, .	4.7	65
84	Dynamical transitions between equilibria in a dissipative Klein-Gordon lattice. Journal of Mathematical Analysis and Applications, 2019, 472, 546-576.	1.0	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, .	3.6	4
86	Breathers and other time-periodic solutions in an array of cantilevers decorated with magnets. Mathematics in Engineering, 2019, 1, 489-507.	0.9	4
87	Instabilities via negative Krein signature in a weakly non-Hamiltonian DNLS model [†] . Mathematics in Engineering, 2019, 1, 378-390.	0.9	2
88	N -break states in a chain of nonlinear oscillators. Physical Review E, 2019, 99, 022201.	2.1	0
89	Dark-bright soliton pairs: Bifurcations and collisions. Physical Review A, 2018, 97, .	2.5	13
90	Media with Onsite Forces: The Newton's Cradle and Beyond. SpringerBriefs in Physics, 2018, , 69-76.	0.7	0

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91	Interactions and scattering of quantum vortices in a polariton fluid. Nature Communications, 2018, 9, 1467.	12.8	46
92	Enhanced quantum spin fluctuations in a binary Bose-Einstein condensate. Physical Review A, 2018, 97, .	2.5	9
93	Three-Component Soliton States in Spinor $F = 1$ Bose-Einstein Condensates. Physical Review Letters, 2018, 120, 063202.	7.8	89
94	Direct measurement of superdiffusive energy transport in disordered granular chains. Nature Communications, 2018, 9, 640.	12.8	20
95	Bright breathers in nonlinear left-handed metamaterial lattices. Physica Scripta, 2018, 93, 025202.	2.5	12
96	Wave propagation in a strongly nonlinear locally resonant granular crystal. Physica D: Nonlinear Phenomena, 2018, 365, 27-41.	2.8	35
97	On the nonexistence of degenerate phase-shift discrete solitons in a dNLS nonlocal lattice. Physica D: Nonlinear Phenomena, 2018, 370, 1-13.	2.8	10
98	Transverse instabilities of stripe domains in magnetic thin films with perpendicular magnetic anisotropy. Physical Review B, 2018, 97, .	3.2	2
99	Coherent Structures in Granular Crystals. SpringerBriefs in Physics, 2018, , .	0.7	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.	3.4	13
101	Resonant interaction of $\vec{k} \cdot 4$ kink with \mathcal{PT} -symmetric perturbation with spatially periodic gain/loss coefficient. Communications in Nonlinear Science and Numerical Simulation, 2018, 56, 62-76.	3.3	9
102	Computing stationary solutions of the two-dimensional Gross-Pitaevskii equation with deflated continuation. Communications in Nonlinear Science and Numerical Simulation, 2018, 54, 482-499.	3.3	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.	0.6	1
104	Planar and radial kinks in nonlinear Klein-Gordon models: Existence, stability, and dynamics. Physical Review E, 2018, 98, .	2.1	9
105	Dissipative shock waves generated by a quantum-mechanical piston. Nature Communications, 2018, 9, 4665.	12.8	22
106	Resonant localized modes in electrical lattices with second-neighbor coupling. Physical Review E, 2018, 98, .	2.1	10
107	Nonlinear Beam Propagation in a Class of Complex Non- \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.	2.9	68

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109	Spectral and dynamical analysis of a single vortex ring in anisotropic harmonically trapped three-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 98, .	2.5	16
110	Dynamics of Dirac solitons in networks. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 435203.	2.1	20
111	Solitary waves of the two-dimensional Camassa-Holm nonlinear Schrödinger equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 495202.	2.1	1
112	Solitary Waves in the Nonlinear Dirac Equation. <i>Understanding Complex Systems</i> , 2018, , 89-143.	0.6	5
113	Lattices with internal resonator defects. <i>Physical Review E</i> , 2018, 98, .	2.1	3
114	Phononic rogue waves. <i>Physical Review E</i> , 2018, 98, .	2.1	11
115	Multi-vortex crystal lattices in Bose-Einstein condensates with a rotating trap. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170553.	2.1	2
116	Many-body dissipative flow of a confined scalar Bose-Einstein condensate driven by a Gaussian impurity. <i>Physical Review A</i> , 2018, 98, .	2.5	31
117	Quasiperiodic granular chains and Hofstadter butterflies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20170139.	3.4	15
118	Traveling Waves. <i>SpringerBriefs in Physics</i> , 2018, , 23-39.	0.7	0
119	Demonstration of Dispersive Rarefaction Shocks in Hollow Elliptical Cylinder Chains. <i>Physical Review Letters</i> , 2018, 120, 194101.	7.8	14
120	Peregrine solitons and gradient catastrophes in discrete nonlinear Schrödinger systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 3064-3070.	2.1	12
121	Hydrodynamics and two-dimensional dark lump solitons for polariton superfluids. <i>Physical Review E</i> , 2018, 98, 022205.	2.1	6
122	Adiabatic invariant analysis of dark and dark-bright soliton stripes in two-dimensional Bose-Einstein condensates. <i>Physical Review A</i> , 2018, 97, .	2.5	7
123	Hamiltonian bifurcation perspective on two interacting vortex pairs: From symmetric to asymmetric leapfrogging, period doubling, and chaos. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	4
124	Dark-bright soliton interactions beyond the integrable limit. <i>Physical Review A</i> , 2017, 95, .	2.5	16
125	Discrete breathers in a mass-in-mass chain with Hertzian local resonators. <i>Physical Review E</i> , 2017, 95, 022904.	2.1	16
126	Two-component dark-bright solitons in three-dimensional atomic Bose-Einstein condensates. <i>Physical Review E</i> , 2017, 95, 032201.	2.1	11

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127	Stability of single and multiple matter-wave dark solitons in collisionally inhomogeneous Bose-Einstein condensates. International Journal of Modern Physics B, 2017, 31, 1742013.	2.0	6
128	From solitons to rogue waves in nonlinear left-handed metamaterials. Physical Review E, 2017, 95, 032223.	2.1	27
129	Experimental Study of Nonlinear Resonances and Anti-Resonances in a Forced, Ordered Granular Chain. Experimental Mechanics, 2017, 57, 505-520.	2.0	11
130	Asymptotic expansions and solitons of the Camassa-Holm nonlinear Schrödinger equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3965-3971.	2.1	20
131	Discrete BPS skyrmions. Journal of Mathematical Physics, 2017, 58, 091501.	1.1	0
132	Vortex precession dynamics in general radially symmetric potential traps in two-dimensional atomic Bose-Einstein condensates. Physical Review A, 2017, 96, .	2.5	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.	2.1	19
134	Nonlinear coherent structures in granular crystals. Journal of Physics Condensed Matter, 2017, 29, 413003.	1.8	64
135	On the characterization of vortex configurations in the steady rotating Bose-Einstein condensates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170602.	2.1	2
136	Analysis and observation of moving domain fronts in a ring of coupled electronic self-oscillators. Chaos, 2017, 27, 103125.	2.5	5
137	Emergence of dispersive shocks and rarefaction waves in power-law contact models. Physical Review E, 2017, 95, 062216.	2.1	16
138	Adiabatic Invariant Approach to Transverse Instability: Landau Dynamics of Soliton Filaments. Physical Review Letters, 2017, 118, 244101.	7.8	23
139	Single and multiple vortex rings in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2017, 95, .	2.5	24
140	Demonstrating an <i>In-Situ</i> Topological Band Transition in Cylindrical Granular Chains. Physical Review Letters, 2017, 119, 024301.	7.8	75
141	Floquet analysis of Kuznetsov-Ma breathers: A path towards spectral stability of rogue waves. Physical Review E, 2017, 96, 012202.	2.1	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, .	1.1	3
143	To infinity and some glimpses of beyond. Nature Communications, 2017, 8, 1562.	12.8	9
144	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

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145	Kink dynamics in a parametric \mathbb{Z}_6 system: a model with controllably many internal modes. Journal of High Energy Physics, 2017, 2017, 1.	4.7	37
146	Dark-“bright soliton dynamics beyond the mean-field approximation. New Journal of Physics, 2017, 19, 073004.	2.9	52
147	Theoretical and Computational Advances in Nonlinear Dynamical Systems. Advances in Mathematical Physics, 2017, 2017, 1-3.	0.8	1
148	Intrinsic localized modes in coupled DNLS equations from the anti-continuum limit. Mathematics and Computers in Simulation, 2016, 127, 151-165.	4.4	1
149	A PT -Symmetric Dual-Core System with the Sine-Gordon Nonlinearity and Derivative Coupling. Symmetry, 2016, 8, 39.	2.2	5
150	Traveling Waves for the Mass in Mass Model of Granular Chains. Letters in Mathematical Physics, 2016, 106, 1067-1088.	1.1	20
151	Light dynamics in nonlinear trimers and twisted multicore fibers. Journal of Nonlinear Optical Physics and Materials, 2016, 25, 1650042.	1.8	18
152	DUPLICATE: Solitons in coupled nonlinear Schrödinger models: A survey of recent developments. Reviews in Physics, 2016, , .	8.9	0
153	Dark solitons near potential and nonlinearity steps. Physical Review A, 2016, 94, .	2.5	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.	2.1	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, .	2.5	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.	2.1	3
157	Breathers in a locally resonant granular chain with precompression. Physica D: Nonlinear Phenomena, 2016, 331, 27-47.	2.8	22
158	Energy Criterion for the Spectral Stability of Discrete Breathers. Physical Review Letters, 2016, 117, 094101.	7.8	20
159	Vortex-soliton complexes in coupled nonlinear Schrödinger equations with unequal dispersion coefficients. Physical Review E, 2016, 94, 022207.	2.1	13
160	Solitons in coupled nonlinear Schrödinger models: A survey of recent developments. Reviews in Physics, 2016, 1, 140-153.	8.9	134
161	Dark spherical shell solitons in three-dimensional Bose-Einstein condensates: Existence, stability, and dynamics. Physical Review A, 2016, 93, .	2.5	21
162	SO(2)-induced breathing patterns in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 93, .	2.5	26

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163	Conical wave propagation and diffraction in two-dimensional hexagonally packed granular lattices. Physical Review E, 2016, 93, 012909.	2.1	9
164	Superdiffusive transport and energy localization in disordered granular crystals. Physical Review E, 2016, 93, 022902.	2.1	28
165	Formation of rarefaction waves in origami-based metamaterials. Physical Review E, 2016, 93, 043004.	2.1	57
166	Nonlinear vibrational-state excitation and piezoelectric energy conversion in harmonically driven granular chains. Physical Review E, 2016, 93, 052203.	2.1	8
167	Stability of Solitary Waves and Vortices in a 2D Nonlinear Dirac Model. Physical Review Letters, 2016, 116, 214101.	7.8	27
168	Generating and manipulating quantized vortices on-demand in a Bose-Einstein condensate: A numerical study. Physical Review A, 2016, 93, .	2.5	17
169	Vector dark-antidark solitary waves in multicomponent Bose-Einstein condensates. Physical Review A, 2016, 94, .	2.5	43
170	Strongly nonlinear waves in locally resonant granular chains. Nonlinearity, 2016, 29, 3496-3527.	1.4	21
171	Nonlinear Instabilities of Multi-Site Breathers in Klein-Gordon Lattices. Studies in Applied Mathematics, 2016, 137, 214-237.	2.4	11
172	Vortex nucleation in a dissipative variant of the nonlinear Schrödinger equation under rotation. Physica D: Nonlinear Phenomena, 2016, 317, 1-14.	2.8	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.	4.8	10
174	Discrete solitons and vortices in anisotropic hexagonal and honeycomb lattices. Journal of Optics (United Kingdom), 2016, 18, 024008.	2.2	2
175	Solitary Waves of a $\{P\}$ and $\{T\}$ Symmetric Nonlinear Dirac Equation. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 67-75.	2.9	12
176	Stabilization of ring dark solitons in Bose-Einstein condensates. Physical Review A, 2015, 92, .	2.5	19
177	Bifurcation and stability of single and multiple vortex rings in three-dimensional Bose-Einstein condensates. Physical Review A, 2015, 92, .	2.5	15
178	Nonlinear dressed states at the miscibility-immiscibility threshold. Physical Review A, 2015, 92, .	2.5	17
179	Multidimensional discrete compactons in nonlinear Schrödinger lattices with strong nonlinearity management. Physical Review A, 2015, 92, .	2.5	7
180	Robust vortex lines, vortex rings, and hopfions in three-dimensional Bose-Einstein condensates. Physical Review A, 2015, 92, .	2.5	17

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181	High energy density in multisoliton collisions. Physical Review D, 2015, 92, .	4.7	22
182	Nonlinear resonances and antiresonances of a forced sonic vacuum. Physical Review E, 2015, 92, 063203.	2.1	11
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