

Zhenya Yan

List of Publications by Year in descending order

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81
papers

3,178
citations

101496

36
h-index

161767

54
g-index

82
all docs

82
docs citations

82
times ranked

727
citing authors

#	ARTICLE	IF	CITATIONS
19	Three-wave resonant interactions: Multi-dark-dark-dark solitons, breathers, rogue waves, and their interactions and dynamics. <i>Physica D: Nonlinear Phenomena</i> , 2018, 366, 27-42.	1.3	51
20	Modulational instability and dynamics of multi-rogue wave solutions for the discrete Ablowitz-Ladik equation. <i>Journal of Mathematical Physics</i> , 2018, 59, .	0.5	50
21	Nonautonomous matter waves in a waveguide. <i>Physical Review A</i> , 2011, 84, .	1.0	48
22	Complex \mathcal{PT} -symmetric nonlinear Schrödinger equation and Burgers equation. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120059.	1.6	48
23	Nonclassical potential solutions of partial differential equations. <i>European Journal of Applied Mathematics</i> , 2005, 16, 239-261.	1.4	44
24	Analytical three-dimensional bright solitons and soliton pairs in Bose-Einstein condensates with time-space modulation. <i>Physical Review A</i> , 2009, 80, .	1.0	43
25	An initial-boundary value problem for the integrable spin-1 Gross-Pitaevskii equations with a $4\tilde{A}-4$ Lax pair on the half-line. <i>Chaos</i> , 2017, 27, 053117.	1.0	43
26	Families of stable solitons and excitations in the \mathcal{PT} -symmetric nonlinear Schrödinger equations with position-dependent effective masses. <i>Scientific Reports</i> , 2017, 7, 1257.	1.6	43
27	Solitonic dynamics and excitations of the nonlinear Schrödinger equation with third-order dispersion in non-Hermitian \mathcal{PT} -symmetric potentials. <i>Scientific Reports</i> , 2016, 6, 23478.	1.6	42
28	Novel higher-order rational solitons and dynamics of the defocusing integrable nonlocal nonlinear Schrödinger equation via the determinants. <i>Applied Mathematics Letters</i> , 2017, 69, 113-120.	1.5	42
29	Solving forward and inverse problems of the logarithmic nonlinear Schrödinger equation with \mathcal{PT} -symmetric harmonic potential via deep learning. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 387, 127010.	0.9	41
30	The Hirota equation: Darboux transform of the Riemann-Hilbert problem and higher-order rogue waves. <i>Applied Mathematics Letters</i> , 2019, 95, 65-71.	1.5	40
31	The Derivative Nonlinear Schrödinger Equation with Zero/Nonzero Boundary Conditions: Inverse Scattering Transforms and N-Double-Pole Solutions. <i>Journal of Nonlinear Science</i> , 2020, 30, 3089-3127.	1.0	40
32	Q-S (complete or anticipated) synchronization backstepping scheme in a class of discrete-time chaotic (hyperchaotic) systems: A symbolic-numeric computation approach. <i>Chaos</i> , 2006, 16, 013119.	1.0	39
33	Modulational instability, beak-shaped rogue waves, multi-dark-dark solitons and dynamics in pair-transition-coupled nonlinear Schrödinger equations. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20170243.	1.0	39
34	Two-dimensional vector rogue wave excitations and controlling parameters in the two-component Gross-Pitaevskii equations with varying potentials. <i>Nonlinear Dynamics</i> , 2015, 79, 2515-2529.	2.7	38
35	On stable solitons and interactions of the generalized Gross-Pitaevskii equation with \mathcal{PT} - and non- \mathcal{PT} -symmetric potentials. <i>Chaos</i> , 2016, 26, 083109.	1.0	37
36	Solitons and their stability in the nonlocal nonlinear Schrödinger equation with \mathcal{PT} -symmetric potentials. <i>Chaos</i> , 2017, 27, 053105.	1.0	36

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37	Nonautonomous discrete rogue wave solutions and interactions in an inhomogeneous lattice with varying coefficients. <i>Journal of Mathematical Analysis and Applications</i> , 2012, 395, 542-549.	0.5	35
38	Matter-wave solutions in Bose-Einstein condensates with harmonic and Gaussian potentials. <i>Physical Review E</i> , 2012, 85, 056608.	0.8	35
39	Focusing and defocusing Hirota equations with non-zero boundary conditions: Inverse scattering transforms and soliton solutions. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 80, 104927.	1.7	30
40	Stable parity-time-symmetric nonlinear modes and excitations in a derivative nonlinear Schrödinger equation. <i>Physical Review E</i> , 2017, 95, 012205.	0.8	26
41	A new scheme to generalized (lag, anticipated, and complete) synchronization in chaotic and hyperchaotic systems. <i>Chaos</i> , 2005, 15, 013101.	1.0	25
42	Multi-dark-dark solitons of the integrable repulsive AB system via the determinants. <i>Chaos</i> , 2017, 27, 083110.	1.0	25
43	Stable flat-top solitons and peakons in the PT-symmetric $\langle i \rangle \langle b \rangle \hat{\gamma} \langle /b \rangle \langle /i \rangle$ -signum potentials and nonlinear media. <i>Chaos</i> , 2019, 29, 083108.	1.0	25
44	The general coupled Hirota equations: modulational instability and higher-order vector rogue wave and multi-dark soliton structures. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180625.	1.0	25
45	Soliton formation and stability under the interplay between parity-time-symmetric generalized Scarf-II potentials and Kerr nonlinearity. <i>Physical Review E</i> , 2020, 102, 012216.	0.8	25
46	Controlling temporal solitary waves in the generalized inhomogeneous coupled nonlinear Schrödinger equations with varying source terms. <i>Journal of Mathematical Physics</i> , 2015, 56, 053508.	0.5	24
47	The $\langle i \rangle \langle n \rangle \langle /i \rangle$ -component nonlinear Schrödinger equations: dark-bright mixed $\langle i \rangle \langle N \rangle \langle /i \rangle$ - and high-order solitons and breathers, and dynamics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2018, 474, 20170688.	1.0	24
48	Localized Analytical Solutions and Parameters Analysis in the Nonlinear Dispersive Gross-Pitaevskii Mean-Field GP ($\langle i \rangle \langle m, n \rangle \langle /i \rangle$) Model with Space-Modulated Nonlinearity and Potential. <i>Studies in Applied Mathematics</i> , 2014, 132, 266-284.	1.1	23
49	Multi-component Nonlinear Schrödinger Equations with Nonzero Boundary Conditions: Higher-Order Vector Peregrine Solitons and Asymptotic Estimates. <i>Journal of Nonlinear Science</i> , 2021, 31, 1.	1.0	22
50	Optical temporal rogue waves in the generalized inhomogeneous nonlinear Schrödinger equation with varying higher-order even and odd terms. <i>Nonlinear Dynamics</i> , 2015, 81, 833-842.	2.7	20
51	Multi-rational and semi-rational solitons and interactions for the nonlocal coupled nonlinear Schrödinger equations. <i>Europhysics Letters</i> , 2017, 118, 60004.	0.7	20
52	Optical Solitary Wave Solutions to Nonlinear Schrödinger Equation with Cubic-Quintic Nonlinearity in Non-Kerr Media. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 2397-2401.	0.7	19
53	Attraction centers and parity-time-symmetric delta-functional dipoles in critical and supercritical self-focusing media. <i>Physical Review E</i> , 2019, 99, 052206.	0.8	19
54	The nonlinear Schrödinger equation with generalized nonlinearities and PT-symmetric potentials: Stable solitons, interactions, and excitations. <i>Chaos</i> , 2017, 27, 073114.	1.0	18

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55	Formation, stability, and adiabatic excitation of peakons and double-hump solitons in parity-time-symmetric Dirac- \hat{H} -Scarf-II optical potentials. <i>Physical Review E</i> , 2022, 105, 014204.	0.8	17
56	GLOBALLY EXPONENTIAL HYPERCHAOS (LAG) SYNCHRONIZATION IN A FAMILY OF MODIFIED HYPERCHAOTIC RÄ-SSLER SYSTEMS. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2007, 17, 1759-1774.	0.7	15
57	Two-dimensional superfluid flows in inhomogeneous Bose-Einstein condensates. <i>Physical Review E</i> , 2012, 85, 016601.	0.8	15
58	Numerical analysis of the Hirota equation: Modulational instability, breathers, rogue waves, and interactions. <i>Chaos</i> , 2020, 30, 013114.	1.0	15
59	Three-component Gross-Pitaevskii equations in the spin-1 Bose-Einstein condensate: Spin-rotation symmetry, matter-wave solutions, and dynamics. <i>Chaos</i> , 2017, 27, 033118.	1.0	14
60	Effect of PT symmetry on nonlinear waves for three-wave interaction models in the quadratic nonlinear media. <i>Chaos</i> , 2018, 28, 043104.	1.0	14
61	Parity-time-symmetric rational vector rogue waves of the n-component nonlinear Schrödinger equation. <i>Chaos</i> , 2021, 31, 063120.	1.0	14
62	Dynamics of inhomogeneous condensates in contact with a surface. <i>Physical Review A</i> , 2010, 81, .	1.0	13
63	Rogue wave formation and interactions in the defocusing nonlinear Schrödinger equation with external potentials. <i>Applied Mathematics Letters</i> , 2021, 111, 106670.	1.5	12
64	Novel wave structures in the two-dimensional cubic-quintic nonlinear Schrödinger equation with space-modulated potential and nonlinearities. <i>Nonlinear Dynamics</i> , 2015, 82, 119-129.	2.7	10
65	Fundamental solitons and dynamical analysis in the defocusing Kerr medium and \mathcal{PT} -symmetric rational potential. <i>Nonlinear Dynamics</i> , 2018, 91, 853-861.	2.7	10
66	Nonlinear self-dual network equations: modulation instability, interactions of higher-order discrete vector rational solitons and dynamical behaviours. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20200512.	1.0	10
67	Stable dynamics and excitations of single- and double-hump solitons in the Kerr nonlinear media with \mathcal{PT} -symmetric HHG potentials. <i>Nonlinear Dynamics</i> , 2022, 108, 4045-4056.	2.7	10
68	Rational vector rogue waves for the n-component Hirota equation with non-zero backgrounds. <i>Physica D: Nonlinear Phenomena</i> , 2021, 427, 133005.	1.3	7
69	Study on New Doubly-periodic Solutions of two Coupled Nonlinear Wave Equations in Complex and Real Fields. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2004, 59, 29-34.	0.7	6
70	Stability, integrability, and nonlinear dynamics of P T-symmetric optical couplers with cubic cross-interactions or cubic-quintic nonlinearities. <i>Chaos</i> , 2017, 27, 013105.	1.0	5
71	Long-Time Asymptotics for the Focusing Hirota Equation with Non-Zero Boundary Conditions at Infinity Via the Deift-Zhou Approach. <i>Mathematical Physics Analysis and Geometry</i> , 2021, 24, 1.	0.4	5
72	The multi-triple-pole solitons for the focusing mKdV hierarchy with nonzero boundary conditions. <i>Modern Physics Letters B</i> , 0, , 2150483.	1.0	5

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73	Stability and modulation of optical peakons in self-focusing/defocusing Kerr nonlinear media with PT-symmetric hyperbolic-function potentials. <i>Chaos</i> , 2022, 32, 023122.	1.0	4
74	Orbital stability of peakon solutions for a generalized higher-order Camassa-Holm equation. <i>Zeitschrift Fur Angewandte Mathematik Und Physik</i> , 2022, 73, .	0.7	4
75	Elliptic Function Solutions of (2+1)-dimensional Longwave-Shortwave Resonance Interaction Equation via a sinh-Gordon Expansion Method. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2004, 59, 23-28.	0.7	3
76	An initial-boundary value problem for the general three-component nonlinear Schrödinger equations on a finite interval. <i>IMA Journal of Applied Mathematics</i> , 2021, 86, 427-489.	0.8	3
77	The Cauchy Problem and Multi-peakons for the mCH-Novikov-CH Equation with Quadratic and Cubic Nonlinearities. <i>Journal of Dynamics and Differential Equations</i> , 0, , 1.	1.0	3
78	The Cauchy problem and wave-breaking phenomenon for a generalized sine-type FORQ/mCH equation. <i>Monatshefte Fur Mathematik</i> , 0, , 1.	0.5	2
79	A sine-type Camassa-Holm equation: local well-posedness, Hölder continuity, and wave-breaking analysis. <i>Monatshefte Fur Mathematik</i> , 0, , 1.	0.5	1
80	Wave-breaking analysis and weak multi-peakon solutions for a generalized cubic-quintic Camassa-Holm type equation. <i>Monatshefte Fur Mathematik</i> , 0, , 1.	0.5	1
81	A New Hierarchy of Lax and Liouville Integrable Evolution Equations Associated with an Isospectral Problem in the Loop Algebra $\mathfrak{sl}(2)$. <i>Journal of Systems Science and Complexity</i> , 2006, 19, 301-306.	1.6	0