Zhenya Yan

List of Publications by Year in descending order

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			101496	1	61767
83	1	3,178	36		54
pap	ers	citations	h-index		g-index
8	2	82	82		727
all d	ocs	docs citations	times ranked		citing authors

#	Article	IF	Citations
1	Vector financial rogue waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 4274-4279.	0.9	282
2	Nonautonomous "rogons―in the inhomogeneous nonlinear Schrödinger equation with variable coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 672-679.	0.9	177
3	Integrable <mml:math altimg="si19.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric local and nonlocal vector nonlinear SchrĶdinger equations: A unified two-parameter model. Applied Mathematics Letters. 2015. 47. 61-68.	1.5	137
4	Dynamics of higher-order rational solitons for the nonlocal nonlinear Schrödinger equation with the self-induced parity-time-symmetric potential. Chaos, 2016, 26, 063123.	1.0	126
5	Three-dimensional rogue waves in nonstationary parabolic potentials. Physical Review E, 2010, 82, 036610.	0.8	121
6	Generalized perturbation <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>, Darboux transformations and multi-rogue-wave structures for the modified self-steepening nonlinear Schrödinger equation. Physical Review E, 2015, 92, 012917.</mml:mo></mml:math>	<td>><mml:mo>Â</mml:mo></td>	> <mml:mo>Â</mml:mo>
7	Spatial solitons and stability in self-focusing and defocusing Kerr nonlinear media with generalized parity-time-symmetric Scarff-II potentials. Physical Review E, 2015, 92, 022913.	0.8	77
8	Modulational instability and higher-order rogue waves with parameters modulation in a coupled integrable AB system via the generalized Darboux transformation. Chaos, 2015, 25, 123115.	1.0	77
9	Solitons in a nonlinear SchrĶdinger equation with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi></mml:math> -symmetric potentials and inhomogeneous nonlinearity: Stability and excitation of nonlinear modes. Physical Review A. 2015. 92	1.0	76
10	Interactions of localized wave structures and dynamics in the defocusing coupled nonlinear SchrA¶dinger equations. Physical Review E, 2017, 95, 042201.	0.8	74
11	Q-S (lag or anticipated) synchronization backstepping scheme in a class of continuous-time hyperchaotic systems—A symbolic-numeric computation approach. Chaos, 2005, 15, 023902.	1.0	72
12	Optical rogue waves in the generalized inhomogeneous higher-order nonlinear Schr $ ilde{A}\P$ dinger equation with modulating coefficients. Journal of Optics (United Kingdom), 2013, 15, 064012.	1.0	69
13	Higher-order vector discrete rogue-wave states in the coupled Ablowitz-Ladik equations: Exact solutions and stability. Chaos, 2016, 26, 123110.	1.0	69
14	Data-driven rogue waves and parameter discovery in the defocusing nonlinear SchrA¶dinger equation with a potential using the PINN deep learning. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 404, 127408.	0.9	67
15	Rogue waves, rational solitons, and modulational instability in an integrable fifth-order nonlinear SchrĶdinger equation. Chaos, 2015, 25, 103112.	1.0	66
16	Higher-order rational solitons and rogue-like wave solutions of the (2Â+Â1)-dimensional nonlinear fluid mechanics equations. Communications in Nonlinear Science and Numerical Simulation, 2017, 43, 311-329.	1.7	64
17	Nonlocal general vector nonlinear SchrAqdinger equations: integrability, <mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">P</mml:mi><mml:mi and="" applied="" mathematics<="" solutions.="" td=""><td>1.5</td><td>53</td></mml:mi></mml:math>	1.5	53
18	Three-component nonlinear SchrĶdinger equations: Modulational instability, N th-order vector rational and semi-rational rogue waves, and dynamics. Communications in Nonlinear Science and Numerical Simulation, 2018, 62, 117-133.	1.7	52

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19	Three-wave resonant interactions: Multi-dark-dark-dark solitons, breathers, rogue waves, and their interactions and dynamics. Physica D: Nonlinear Phenomena, 2018, 366, 27-42.	1.3	51
20	Modulational instability and dynamics of multi-rogue wave solutions for the discrete Ablowitz-Ladik equation. Journal of Mathematical Physics, 2018, 59, .	0.5	50
21	Nonautonomous matter waves in a waveguide. Physical Review A, 2011, 84, .	1.0	48
22	Complex <i>PT</i> -symmetric nonlinear Schrödinger equation and Burgers equation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2013, 371, 20120059.	1.6	48
23	Nonclassical potential solutions of partial differential equations. European Journal of Applied Mathematics, 2005, 16, 239-261.	1.4	44
24	Analytical three-dimensional bright solitons and soliton pairs in Bose-Einstein condensates with time-space modulation. Physical Review A, 2009, 80, .	1.0	43
25	An initial-boundary value problem for the integrable spin-1 Gross-Pitaevskii equations with a 4 $ ilde{A}-$ 4 Lax pair on the half-line. Chaos, 2017, 27, 053117.	1.0	43
26	Families of stable solitons and excitations in the PT-symmetric nonlinear SchrĶdinger equations with position-dependent effective masses. Scientific Reports, 2017, 7, 1257.	1.6	43
27	Solitonic dynamics and excitations of the nonlinear Schr $ ilde{A}\P$ dinger equation with third-order dispersion in non-Hermitian PT-symmetric potentials. Scientific Reports, 2016, 6, 23478.	1.6	42
28	Novel higher-order rational solitons and dynamics of the defocusing integrable nonlocal nonlinear SchrĶdinger equation via the determinants. Applied Mathematics Letters, 2017, 69, 113-120.	1.5	42
29	Solving forward and inverse problems of the logarithmic nonlinear Schrödinger equation with <mml:math altimg="si1.svg" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="script">PT</mml:mi </mml:math> -symmetric harmonic potential via deep learning. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 387, 127010.	0.9	41
30	The Hirota equation: Darboux transform of the Riemannâ€"Hilbert problem and higher-order rogue waves. Applied Mathematics Letters, 2019, 95, 65-71.	1.5	40
31	The Derivative Nonlinear SchrĶdinger Equation with Zero/Nonzero Boundary Conditions: Inverse Scattering Transforms and N-Double-Pole Solutions. Journal of Nonlinear Science, 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. Chaos, 2006, 16, 013119.	1.0	39
33	Modulational instability, beak-shaped rogue waves, multi-dark-dark solitons and dynamics in pair-transition-coupled nonlinear SchrĶdinger equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 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. Nonlinear Dynamics, 2015, 79, 2515-2529.	2.7	38
35	On stable solitons and interactions of the generalized Gross-Pitaevskii equation with PT- and non-PT-symmetric potentials. Chaos, 2016, 26, 083109.	1.0	37
36	Solitons and their stability in the nonlocal nonlinear Schr $\tilde{A}\P$ dinger equation with PT-symmetric potentials. Chaos, 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. Journal of Mathematical Analysis and Applications, 2012, 395, 542-549.	0.5	35
38	Matter-wave solutions in Bose-Einstein condensates with harmonic and Gaussian potentials. Physical Review E, 2012, 85, 056608.	0.8	35
39	Focusing and defocusing Hirota equations with non-zero boundary conditions: Inverse scattering transforms and soliton solutions. Communications in Nonlinear Science and Numerical Simulation, 2020, 80, 104927.	1.7	30
40	Stable parity-time-symmetric nonlinear modes and excitations in a derivative nonlinear SchrĶdinger equation. Physical Review E, 2017, 95, 012205.	0.8	26
41	A new scheme to generalized (lag, anticipated, and complete) synchronization in chaotic and hyperchaotic systems. Chaos, 2005, 15, 013101.	1.0	25
42	Multi-dark-dark solitons of the integrable repulsive AB system via the determinants. Chaos, 2017, 27, 083110.	1.0	25
43	Stable flat-top solitons and peakons in the PT-symmetric $\langle i \rangle \langle b \rangle \hat{l}' \langle b \rangle \langle i \rangle$ -signum potentials and nonlinear media. Chaos, 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. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 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. Physical Review E, 2020, 102, 012216.	0.8	25
46	Controlling temporal solitary waves in the generalized inhomogeneous coupled nonlinear SchrĶdinger equations with varying source terms. Journal of Mathematical Physics, 2015, 56, 053508.	0.5	24
47	The <i>n</i> -component nonlinear Schrödinger equations: dark–bright mixed <i>N</i> - and high-order solitons and breathers, and dynamics. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170688.	1.0	24
48	Localized Analytical Solutions and Parameters Analysis in the Nonlinear Dispersive Gross–Pitaevskii Meanâ€Field GP (⟨i⟩m,n⟨ i⟩) Model with Spaceâ€Modulated Nonlinearity and Potential. Studies in Applied Mathematics, 2014, 132, 266-284.	1.1	23
49	Multi-component Nonlinear Schr \tilde{A} ¶dinger Equations with Nonzero Boundary Conditions: Higher-Order Vector Peregrine Solitons and Asymptotic Estimates. Journal of Nonlinear Science, 2021, 31, 1.	1.0	22
50	Optical temporal rogue waves in the generalized inhomogeneous nonlinear SchrĶdinger equation with varying higher-order even and odd terms. Nonlinear Dynamics, 2015, 81, 833-842.	2.7	20
51	Multi-rational and semi-rational solitons and interactions for the nonlocal coupled nonlinear Schrödinger equations. Europhysics Letters, 2017, 118, 60004.	0.7	20
52	Optical Solitary Wave Solutions to Nonlinear Schrödinger Equation with Cubic–Quintic Nonlinearity in Non-Kerr Media. Journal of the Physical Society of Japan, 2004, 73, 2397-2401.	0.7	19
53	Attraction centers and parity-time-symmetric delta-functional dipoles in critical and supercritical self-focusing media. Physical Review E, 2019, 99, 052206.	0.8	19
54	The nonlinear SchrĶdinger equation with generalized nonlinearities and PT-symmetric potentials: Stable solitons, interactions, and excitations. Chaos, 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- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>δ</mml:mi><mml:mo>(</mml:mo>-Scarf-II optical potentials. Physical Review E, 2022, 105, 014204.</mml:mrow></mml:math>	<0.8 <mml:mi></mml:mi>	x ¹⁷ mml:mi>
56	GLOBALLY EXPONENTIAL HYPERCHAOS (LAG) SYNCHRONIZATION IN A FAMILY OF MODIFIED HYPERCHAOTIC R×SSLER SYSTEMS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2007, 17, 1759-1774.	0.7	15
57	Two-dimensional superfluid flows in inhomogeneous Bose-Einstein condensates. Physical Review E, 2012, 85, 016601.	0.8	15
58	Numerical analysis of the Hirota equation: Modulational instability, breathers, rogue waves, and interactions. Chaos, 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. Chaos, 2017, 27, 033118.	1.0	14
60	Effect of PT symmetry on nonlinear waves for three-wave interaction models in the quadratic nonlinear media. Chaos, 2018, 28, 043104.	1.0	14
61	Parity-time-symmetric rational vector rogue waves of the n-component nonlinear Schrödinger equation. Chaos, 2021, 31, 063120.	1.0	14
62	Dynamics of inhomogeneous condensates in contact with a surface. Physical Review A, 2010, 81, .	1.0	13
63	Rogue wave formation and interactions in the defocusing nonlinear Schrödinger equation with external potentials. Applied Mathematics Letters, 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. Nonlinear Dynamics, 2015, 82, 119-129.	2.7	10
65	Fundamental solitons and dynamical analysis in the defocusing Kerr medium and \$\$varvec{mathcal {PT}}\$\$ PT -symmetric rational potential. Nonlinear Dynamics, 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. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200512.	1.0	10
67	Stable dynamics and excitations of single- and double-hump solitons in the Kerr nonlinear media with \$\$varvec{mathcal {PT}}\$\$-symmetric HHG potentials. Nonlinear Dynamics, 2022, 108, 4045-4056.	2.7	10
68	Rational vector rogue waves for the <mml:math altimg="si13.svg" display="inline" id="d1e1401" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>n</mml:mi></mml:math> -component Hirota equation with non-zero backgrounds. Physica D: Nonlinear Phenomena, 2021, 427, 133005.	1.3	7
69	Study on New Doubly-periodic Solutions of two Coupled Nonlinear Wave Equations in Complex and Real Fields. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 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. Chaos, 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. Mathematical Physics Analysis and Geometry, 2021, 24, 1.	0.4	5
72	The multi-triple-pole solitons for the focusing mKdV hierarchy with nonzero boundary conditions. Modern Physics Letters B, O, , 2150483.	1.0	5

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73	Stability and modulation of optical peakons in self-focusing/defocusing Kerr nonlinear media with PT- $<$ b> $<$ i> $>$ Î' $<$ i> $<$ b>-hyperbolic-function potentials. Chaos, 2022, 32, 023122.	1.0	4
74	Orbital stability of peakon solutions for a generalized higher-order Camassa–Holm equation. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, .	0.7	4
75	Elliptic Function Solutions of (2+1)-dimensional Longwave – Shortwave Resonance Interaction Equation via a sinh-Gordon Expansion Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2004, 59, 23-28.	0.7	3
76	An initial-boundary value problem for the general three-component nonlinear Schr \tilde{A} q dinger equations on a finite interval. IMA Journal of Applied Mathematics, 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. Journal of Dynamics and Differential Equations, 0 , , 1 .	1.0	3
78	The Cauchy problem and wave-breaking phenomenon for a generalized sine-type FORQ/mCH equation. Monatshefte Fur Mathematik, 0, , 1.	0.5	2
79	A sine-type Camassa-Holm equation: local well-posedness, HÃ \P lder continuity, and wave-breaking analysis. Monatshefte Fur Mathematik, 0 , , 1 .	0.5	1
80	Wave-breaking analysis and weak multi-peakon solutions for a generalized cubica \in "quintic Camassaa \in "Holm type equation. Monatshefte Fur Mathematik, 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 $\tilde{A}f2$. Journal of Systems Science and Complexity, 2006, 19, 301-306.	1.6	O