

Xiaoyong Wen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Riemann–Hilbert approach to the generalized second-order flow of three-wave hierarchy. <i>Applicable Analysis</i> , 2022, 101, 5743-5759.	1.3	9
2	Controllable rogue wave and mixed interaction solutions for the coupled Ablowitz–Ladik equations with branched dispersion. <i>Applied Mathematics Letters</i> , 2022, 123, 107591.	2.7	15
3	Dynamical analysis of position-controllable loop rogue wave and mixed interaction phenomena for the complex short pulse equation in optical fiber. <i>Nonlinear Dynamics</i> , 2022, 108, 2573-2593.	5.2	13
4	Continuous limit, various exact solutions, kink soliton resonant phenomena and dynamical behaviors for a discrete Burgers equation. <i>Results in Physics</i> , 2022, 36, 105409.	4.1	4
5	Exact solutions and asymptotic state analysis of a modified Toda lattice system with a perturbation parameter. <i>Modern Physics Letters B</i> , 2022, 36, .	1.9	1
6	A discrete KdV equation hierarchy: continuous limit, diverse exact solutions and their asymptotic state analysis. <i>Communications in Theoretical Physics</i> , 2022, 74, 065001.	2.5	4
7	Continuous Limit, Rational Solutions, and Asymptotic State Analysis for the Generalized Toda Lattice Equation Associated with 3-3 Lax Pair. <i>Symmetry</i> , 2022, 14, 920.	2.2	2
8	Continuous limit and location-manageable discrete loop rogue wave solutions for the semi-discrete complex short pulse equation. <i>Results in Physics</i> , 2022, 39, 105680.	4.1	2
9	Blowup for regular solutions and C^1 solutions of the two-phase model in \mathbb{R}^N with a free boundary. <i>AIMS Mathematics</i> , 2022, 7, 15313-15330.	1.6	0
10	Continuous limit and position adjustable rogue wave solutions for the semi-discrete complex coupled system associated with 4-4 Lax pair. <i>Applied Mathematics Letters</i> , 2022, 133, 108279.	2.7	5
11	Breathing-soliton and singular rogue wave solutions for a discrete nonlocal coupled Ablowitz–Ladik equation of reverse-space type. <i>Applied Mathematics Letters</i> , 2021, 111, 106683.	2.7	17
12	Modulational instability and dynamics of discrete rational soliton and mixed interaction solutions for a higher-order nonlinear self-dual network equation. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	2
13	Soliton interactions and asymptotic state analysis in a discrete nonlocal nonlinear self-dual network equation of reverse-space type*. <i>Chinese Physics B</i> , 2021, 30, 030201.	1.4	5
14	Modulational instability, interactions of two-component localized waves and dynamics in a semi-discrete nonlinear integrable system on a reduced two-chain lattice. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	12
15	Integrability, multi-soliton and rational solutions, and dynamical analysis for a relativistic Toda lattice system with one perturbation parameter. <i>Communications in Theoretical Physics</i> , 2021, 73, 065003.	2.5	8
16	Integrability, discrete kink multi-soliton solutions on an inclined plane background and dynamics in the modified exponential Toda lattice equation. <i>Nonlinear Dynamics</i> , 2021, 105, 643-669.	5.2	12
17	A generalized integrable lattice hierarchy associated with the Toda and modified Toda lattice equations: Hamiltonian representation, soliton solutions. <i>Wave Motion</i> , 2021, 103, 102727.	2.0	3
18	Dynamical structures of interaction wave solutions for the two extended higher-order KdV equations. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	1.8	13

#	ARTICLE	IF	CITATIONS
19	A lattice hierarchy associated with RTL+ (\hat{L}_{\pm}) system: Hamiltonian structures, discrete N-fold Darboux transformation, soliton elastic interactions and dynamics. Chinese Journal of Physics, 2021, , .	3.9	1
20	Discrete multi-soliton solutions and dynamics for a reverse-time nonlocal nonlinear self-dual network equation. Communications in Nonlinear Science and Numerical Simulation, 2021, 102, 105894.	3.3	6
21	Various Soliton Solutions and Asymptotic State Analysis for the Discrete Modified Korteweg-de Vries Equation. Advances in Mathematical Physics, 2021, 2021, 1-22.	0.8	4
22	A Relativistic Toda Lattice Hierarchy, Discrete Generalized $(m, 2N \hat{m})$ -Fold Darboux Transformation and Diverse Exact Solutions. Symmetry, 2021, 13, 2315.	2.2	3
23	An integrable lattice hierarchy associated with a $4 \hat{A} - \hat{A}^4$ matrix spectral problem: N-fold Darboux transformation and dynamical properties. Applied Mathematics and Computation, 2020, 387, 124525.	2.2	1
24	Exotic Localized Vector Waves in a Two-Component Nonlinear Wave System. Journal of Nonlinear Science, 2020, 30, 537-564.	2.1	56
25	Dynamics of discrete soliton propagation and elastic interaction in a higher-order coupled Ablowitz-Ladik equation. Applied Mathematics Letters, 2020, 100, 106013.	2.7	19
26	Determinant solutions and asymptotic state analysis for an integrable model of transient stimulated Raman scattering. Optik, 2020, 200, 163348.	2.9	11
27	Soliton interactions and their dynamics in a higher-order nonlinear self-dual network equation. Chinese Journal of Physics, 2020, 64, 45-53.	3.9	13
28	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.	2.1	10
29	Modulational instability and mixed breather-lump interaction solutions in the $(2+1)$ -dimensional KMN equation. Modern Physics Letters B, 2020, 34, 2050092.	1.9	3
30	Soliton elastic interactions and dynamical analysis of a reduced integrable nonlinear Schrödinger system on a triangular-lattice ribbon. Nonlinear Dynamics, 2020, 100, 1571-1587.	5.2	20
31	Dynamics of localized wave solutions for a higher-order Ablowitz-Ladik equation. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 010205.	0.5	3
32	Soliton, breather, lump and their interaction solutions of the $(2+1)$ -dimensional asymmetrical Nizhnik-Novikov-Veselov equation. Advances in Difference Equations, 2019, 2019, .	3.5	16
33	Evolution of initial discontinuity for the defocusing complex modified KdV equation. Nonlinear Dynamics, 2019, 98, 691-702.	5.2	30
34	Modulational instability, interactions of localized wave structures and dynamics in the modified self-steepening nonlinear Schrödinger equation. Wave Motion, 2019, 91, 102396.	2.0	13
35	Novel localized wave interaction phenomena and dynamics in the generalized discrete Hirota equation via the generalized $(2, N \hat{m}^2)$ -fold Darboux transformation. Modern Physics Letters B, 2019, 33, 1950192.	1.9	3
36	Modulational instability and dynamics of rational soliton solutions for the coupled Volterra lattice equation associated with 4×4 Lax pair. Pramana - Journal of Physics, 2019, 93, 1.	1.8	0

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37	Diverse solitons and interaction solutions for the (2+1)-dimensional CDGKS equation. Modern Physics Letters B, 2019, 33, 1950174.	1.9	7
38	Novel interaction phenomena of localized waves in the generalized (3+1)-dimensional KP equation. Computers and Mathematics With Applications, 2019, 78, 1-19.	2.7	46
39	Dynamics of dark multisoliton and rational solutions for three nonlinear differential-difference equations. Pramana - Journal of Physics, 2019, 92, 1.	1.8	4
40	The N -soliton solution and localized wave interaction solutions of the N -fold Darboux transformation and conservation laws. Applied Mathematical Modelling, 2019, 77, 947-966.	2.7	93
41	A new lattice hierarchy: Hamiltonian structures, symplectic map and N -fold Darboux transformation. Applied Mathematical Modelling, 2019, 67, 201-218.	4.2	21
42	Response to Comment on Solitonic and chaotic behaviors for the nonlinear dust-acoustic waves in a magnetized dusty plasma [Phys. Plasmas 24, 094701 (2017)]. Physics of Plasmas, 2018, 25, 024701.	1.9	0
43	Dynamics and elastic interactions of the discrete multi-dark soliton solutions for the Kaup-Newell lattice equation. Modern Physics Letters B, 2018, 32, 1850085.	1.9	8
44	Modulational instability and dynamics of implicit higher-order rogue wave solutions for the Kundu equation. Modern Physics Letters B, 2018, 32, 1850005.	1.9	12
45	N -fold Darboux transformation and exact solutions of the Suris system. Modern Physics Letters B, 2018, 32, 1850019.	1.9	3
46	Modulational instability and higher order-rogue wave solutions for the generalized discrete Hirota equation. Wave Motion, 2018, 79, 84-97.	2.0	49
47	An integrable lattice hierarchy for Merola-Ragnisco-Tu Lattice: N -fold Darboux transformation and conservation laws. Communications in Nonlinear Science and Numerical Simulation, 2018, 63, 57-71.	3.3	13
48	An integrable lattice hierarchy based on Suris system: N -fold Darboux transformation and conservation laws. Nonlinear Dynamics, 2018, 91, 625-639.	5.2	20
49	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.	2.8	51
50	Dynamics of multi-soliton and breather solutions for a new semi-discrete coupled system related to coupled NLS and coupled complex mKdV equations. Modern Physics Letters B, 2018, 32, 1850340.	1.9	4
51	Dynamics of bright and dark multi-soliton solutions for two higher-order Toda lattice equations for nonlinear waves. Advances in Difference Equations, 2018, 2018, .	3.5	4
52	Modulational instability and dynamics of multi-rogue wave solutions for the discrete Ablowitz-Ladik equation. Journal of Mathematical Physics, 2018, 59, .	1.1	50
53	Dynamics of new higher-order rational soliton solutions of the modified Korteweg-de Vries equation. Pramana - Journal of Physics, 2018, 91, 1.	1.8	5
54	Fission and fusion interaction phenomena of the discrete kink multi-soliton solutions for the Chen-Lee-Liu lattice equation. Modern Physics Letters B, 2018, 32, 1850211.	1.9	4

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55	Higher-Order Rogue Wave and Rational Soliton Solutions of Discrete Complex mKdV Equations. East Asian Journal on Applied Mathematics, 2018, 8, 100-125.	0.9	11
56	Modulational instability, beak-shaped rogue waves, multi-dark-dark solitons and dynamics in pair-transition-coupled nonlinear Schrödinger equations. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170243.	2.1	39
57	Multi-dark-dark solitons of the integrable repulsive AB system via the determinants. Chaos, 2017, 27, 083110.	2.5	25
58	Interactions of localized wave structures and dynamics in the defocusing coupled nonlinear Schrödinger equations. Physical Review E, 2017, 95, 042201.	2.1	74
59	Higher-order rational solitons and rogue-like wave solutions of the $(2\tilde{A}+1)$ -dimensional nonlinear fluid mechanics equations. Communications in Nonlinear Science and Numerical Simulation, 2017, 43, 311-329.	3.3	64
60	Higher-order vector discrete rogue-wave states in the coupled Ablowitz-Ladik equations: Exact solutions and stability. Chaos, 2016, 26, 123110.	2.5	69
61	Dynamics of higher-order rational solitons for the nonlocal nonlinear Schrödinger equation with the self-induced parity-time-symmetric potential. Chaos, 2016, 26, 063123.	2.5	126
62	N-soliton solutions for an integrable differential-difference equation with computer symbolic computation. , 2016, , .		0
63	Solitonic and chaotic behaviors for the nonlinear dust-acoustic waves in a magnetized dusty plasma. Physics of Plasmas, 2016, 23, 052301.	1.9	4
64	Darboux transformation of the general Hirota equation: multisoliton solutions, breather solutions, and rogue wave solutions. Advances in Difference Equations, 2016, 2016, .	3.5	22
65	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.	2.5	77
66	Generalized perturbation Darboux transformations and multi-rogue-wave structures for the modified self-steepening nonlinear Schrödinger equation. Physical Review E, 2015, 92, 012917.	2.1	97
67	Odd-soliton solutions and inelastic interaction for the differential-difference nonlinear Schrödinger equation in nonlinear optics. Applied Mathematics and Computation, 2014, 244, 598-605.	2.2	11
68	Multiple soliton solutions and fusion interaction phenomena for the $(2+1)$ -dimensional modified dispersive water-wave system. Applied Mathematics and Computation, 2013, 219, 7730-7740.	2.2	20
69	A New Integrable Lattice Hierarchy Associated with a Discrete 3×3 Matrix Spectral Problem: N-Fold Darboux Transformation And Explicit Solutions. Reports on Mathematical Physics, 2013, 71, 15-32.	0.8	8
70	N -fold Darboux transformation and explicit solutions in terms of the determinant for the three-field Blaschke-Marciniak lattice. Applied Mathematics Letters, 2013, 26, 1076-1081.	2.7	25
71	N-Soliton Solutions and Inelastic Interaction For a Discretized Second-Order in Time Nonlinear Schrödinger Equation. Reports on Mathematical Physics, 2013, 72, 349-367.	0.8	3
72	Darboux transformation and soliton solutions of a nonlinear coupled differential-difference equation. , 2012, , .		0

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73	N-SOLITON SOLUTIONS AND CONSERVATION LAWS OF THE MODIFIED TODA LATTICE EQUATION. Modern Physics Letters B, 2012, 26, 1150032.	1.9	12
74	Elastic Interaction and Conservation Laws for the Nonlinear Self-Dual Network Equation in Electric Circuit. Journal of the Physical Society of Japan, 2012, 81, 114006.	1.6	30
75	An integrable lattice hierarchy, associated integrable coupling, Darboux transformation and conservation laws. Applied Mathematics and Computation, 2012, 218, 5796-5805.	2.2	18
76	N-Fold Darboux Transformation and Soliton Solutions for Toda Lattice Equation. Reports on Mathematical Physics, 2011, 68, 211-223.	0.8	24
77	Darboux transformation and multi-soliton solutions of (1+1)-dimensional dispersive long wave equations for water waves. , 2010, , .		0
78	Dynamics of higher-order rational and semi-rational soliton solutions of the coupled modified KdV lattice equation. Mathematical Methods in the Applied Sciences, 0, , .	2.3	2