

# Xiaoyong Wen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5938682/publications.pdf>

Version: 2024-02-01

78  
papers

1,494  
citations

361413

20  
h-index

345221

36  
g-index

78  
all docs

78  
docs citations

78  
times ranked

351  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of higher-order rational solitons for the nonlocal nonlinear Schrödinger equation with the self-induced parity-time-symmetric potential. <i>Chaos</i> , 2016, 26, 063123.	2.5	126
2	Generalized perturbation $N$ -fold Darboux transformations and multi-rogue-wave structures for the modified self-steepening nonlinear Schrödinger equation. <i>Physical Review E</i> , 2015, 92, 012917. <a href="#">display="inline" overflow="scroll" id="d1e4901" altimg="si146.gif" style="color: yellow;"&gt;display="inline" overflow="scroll" id="d1e4901" altimg="si146.gif" style="color: yellow;"&gt;&lt;/a&gt;</a>	2.1	97
3	$N$ -soliton solution and localized wave interaction solutions of the generalized Hirota-Satsuma-Ito $e$ . <i>Computers and Mathematics With Applications</i> , 2019, 77, 947-966. <a href="#">display="inline" overflow="scroll" id="d1e4906" altimg="si5.gif" style="color: yellow;"&gt;display="inline" overflow="scroll" id="d1e4906" altimg="si5.gif" style="color: yellow;"&gt;&lt;/a&gt;</a>	2.7	93
4	Modulational instability and higher-order rogue waves with parameters modulation in a coupled integrable AB system via the generalized Darboux transformation. <i>Chaos</i> , 2015, 25, 123115.	2.5	77
5	Interactions of localized wave structures and dynamics in the defocusing coupled nonlinear Schrödinger equations. <i>Physical Review E</i> , 2017, 95, 042201.	2.1	74
6	Higher-order vector discrete rogue-wave states in the coupled Ablowitz-Ladik equations: Exact solutions and stability. <i>Chaos</i> , 2016, 26, 123110.	2.5	69
7	Higher-order rational solitons and rogue-like wave solutions of the $(2+1)$ -dimensional nonlinear fluid mechanics equations. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017, 43, 311-329.	3.3	64
8	Exotic Localized Vector Waves in a Two-Component Nonlinear Wave System. <i>Journal of Nonlinear Science</i> , 2020, 30, 537-564.	2.1	56
9	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.	2.8	51
10	Modulational instability and dynamics of multi-rogue wave solutions for the discrete Ablowitz-Ladik equation. <i>Journal of Mathematical Physics</i> , 2018, 59, .	1.1	50
11	Modulational instability and higher order-rogue wave solutions for the generalized discrete Hirota equation. <i>Wave Motion</i> , 2018, 79, 84-97.	2.0	49
12	Novel interaction phenomena of localized waves in the generalized $(3+1)$ -dimensional KP equation. <i>Computers and Mathematics With Applications</i> , 2019, 78, 1-19.	2.7	46
13	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.	2.1	39
14	Elastic Interaction and Conservation Laws for the Nonlinear Self-Dual Network Equation in Electric Circuit. <i>Journal of the Physical Society of Japan</i> , 2012, 81, 114006.	1.6	30
15	Evolution of initial discontinuity for the defocusing complex modified KdV equation. <i>Nonlinear Dynamics</i> , 2019, 98, 691-702.	5.2	30
16	$N$ -fold Darboux transformation and explicit solutions in terms of the determinant for the three-field Blaschke-Marciniak lattice. <i>Applied Mathematics Letters</i> , 2013, 26, 1076-1081.	2.7	25
17	Multi-dark-dark solitons of the integrable repulsive AB system via the determinants. <i>Chaos</i> , 2017, 27, 083110.	2.5	25
18	$N$ -Fold Darboux Transformation and Soliton Solutions for Toda Lattice Equation. <i>Reports on Mathematical Physics</i> , 2011, 68, 211-223.	0.8	24

#	ARTICLE	IF	CITATIONS
19	Darboux transformation of the general Hirota equation: multisoliton solutions, breather solutions, and rogue wave solutions. <i>Advances in Difference Equations</i> , 2016, 2016, .	3.5	22
20	A new lattice hierarchy: Hamiltonian structures, symplectic map and N-fold Darboux transformation. <i>Applied Mathematical Modelling</i> , 2019, 67, 201-218.	4.2	21
21	Multiple soliton solutions and fusion interaction phenomena for the (2+1)-dimensional modified dispersive water-wave system. <i>Applied Mathematics and Computation</i> , 2013, 219, 7730-7740.	2.2	20
22	An integrable lattice hierarchy based on Suris system: $\{\vec{N}\}$ N-fold Darboux transformation and conservation laws. <i>Nonlinear Dynamics</i> , 2018, 91, 625-639.	5.2	20
23	Soliton elastic interactions and dynamical analysis of a reduced integrable nonlinear Schrödinger system on a triangular-lattice ribbon. <i>Nonlinear Dynamics</i> , 2020, 100, 1571-1587.	5.2	20
24	Dynamics of discrete soliton propagation and elastic interaction in a higher-order coupled Ablowitz-Ladik equation. <i>Applied Mathematics Letters</i> , 2020, 100, 106013.	2.7	19
25	An integrable lattice hierarchy, associated integrable coupling, Darboux transformation and conservation laws. <i>Applied Mathematics and Computation</i> , 2012, 218, 5796-5805.	2.2	18
26	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
27	Soliton, breather, lump and their interaction solutions of the (2+1)-dimensional asymmetrical Nizhnik-Novikov-Veselov equation. <i>Advances in Difference Equations</i> , 2019, 2019, .	3.5	16
28	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
29	An integrable lattice hierarchy for Merola-Ragnisco-Tu Lattice: N-fold Darboux transformation and conservation laws. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 63, 57-71.	3.3	13
30	Modulational instability, interactions of localized wave structures and dynamics in the modified self-steepening nonlinear Schrödinger equation. <i>Wave Motion</i> , 2019, 91, 102396.	2.0	13
31	Soliton interactions and their dynamics in a higher-order nonlinear self-dual network equation. <i>Chinese Journal of Physics</i> , 2020, 64, 45-53.	3.9	13
32	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
33	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
34	N-SOLITON SOLUTIONS AND CONSERVATION LAWS OF THE MODIFIED TODA LATTICE EQUATION. <i>Modern Physics Letters B</i> , 2012, 26, 1150032.	1.9	12
35	Modulational instability and dynamics of implicit higher-order rogue wave solutions for the Kundu equation. <i>Modern Physics Letters B</i> , 2018, 32, 1850005.	1.9	12
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	Odd-soliton solutions and inelastic interaction for the differential-difference nonlinear Schrödinger equation in nonlinear optics. <i>Applied Mathematics and Computation</i> , 2014, 244, 598-605.	2.2	11
39	Determinant solutions and asymptotic state analysis for an integrable model of transient stimulated Raman scattering. <i>Optik</i> , 2020, 200, 163348.	2.9	11
40	Higher-Order Rogue Wave and Rational Soliton Solutions of Discrete Complex mKdV Equations. <i>East Asian Journal on Applied Mathematics</i> , 2018, 8, 100-125.	0.9	11
41	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.	2.1	10
42	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
43	A New Integrable Lattice Hierarchy Associated with a Discrete 3-3 Matrix Spectral Problem: N-Fold Darboux Transformation And Explicit Solutions. <i>Reports on Mathematical Physics</i> , 2013, 71, 15-32.	0.8	8
44	Dynamics and elastic interactions of the discrete multi-dark soliton solutions for the Kaup-Newell lattice equation. <i>Modern Physics Letters B</i> , 2018, 32, 1850085.	1.9	8
45	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
46	Diverse solitons and interaction solutions for the (2+1)-dimensional CDGKS equation. <i>Modern Physics Letters B</i> , 2019, 33, 1950174.	1.9	7
47	Discrete multi-soliton solutions and dynamics for a reverse-time nonlocal nonlinear self-dual network equation. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021, 102, 105894.	3.3	6
48	Dynamics of new higher-order rational soliton solutions of the modified Korteweg-de Vries equation. <i>Pramana - Journal of Physics</i> , 2018, 91, 1.	1.8	5
49	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
50	Continuous limit and position adjustable rogue wave solutions for the semi-discrete complex coupled system associated with 4Lax pair. <i>Applied Mathematics Letters</i> , 2022, 133, 108279.	2.7	5
51	Solitonic and chaotic behaviors for the nonlinear dust-acoustic waves in a magnetized dusty plasma. <i>Physics of Plasmas</i> , 2016, 23, 052301.	1.9	4
52	Dynamics of multi-soliton and breather solutions for a new semi-discrete coupled system related to coupled NLS and coupled complex mKdV equations. <i>Modern Physics Letters B</i> , 2018, 32, 1850340.	1.9	4
53	Dynamics of bright and dark multi-soliton solutions for two higher-order Toda lattice equations for nonlinear waves. <i>Advances in Difference Equations</i> , 2018, 2018, .	3.5	4
54	Fission and fusion interaction phenomena of the discrete kink multi-soliton solutions for the Chen-Lee-Liu lattice equation. <i>Modern Physics Letters B</i> , 2018, 32, 1850211.	1.9	4

#	ARTICLE	IF	CITATIONS
55	Dynamics of dark multisoliton and rational solutions for three nonlinear differential-difference equations. <i>Pramana - Journal of Physics</i> , 2019, 92, 1.	1.8	4
56	Various Soliton Solutions and Asymptotic State Analysis for the Discrete Modified Korteweg-de Vries Equation. <i>Advances in Mathematical Physics</i> , 2021, 2021, 1-22.	0.8	4
57	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
58	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
59	N-Soliton Solutions and Inelastic Interaction For a Discretized Second-Order in Time Nonlinear Schrödinger Equation. <i>Reports on Mathematical Physics</i> , 2013, 72, 349-367.	0.8	3
60	N-fold Darboux transformation and exact solutions of the Suris system. <i>Modern Physics Letters B</i> , 2018, 32, 1850019.	1.9	3
61	Novel localized wave interaction phenomena and dynamics in the generalized discrete Hirota equation via the generalized $(2, N \sim 2)$ -fold Darboux transformation. <i>Modern Physics Letters B</i> , 2019, 33, 1950192.	1.9	3
62	Modulational instability and mixed breather–lump interaction solutions in the $(2+1)$ -dimensional KMN equation. <i>Modern Physics Letters B</i> , 2020, 34, 2050092.	1.9	3
63	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
64	Dynamics of localized wave solutions for a higher-order Ablowitz-Ladik equation. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 010205.	0.5	3
65	A Relativistic Toda Lattice Hierarchy, Discrete Generalized $(m, 2N \sim m)$ -Fold Darboux Transformation and Diverse Exact Solutions. <i>Symmetry</i> , 2021, 13, 2315.	2.2	3
66	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
67	Dynamics of higher-order rational and semi-rational soliton solutions of the coupled modified KdV lattice equation. <i>Mathematical Methods in the Applied Sciences</i> , 0, , .	2.3	2
68	Continuous Limit, Rational Solutions, and Asymptotic State Analysis for the Generalized Toda Lattice Equation Associated with $3 \times 3$ Lax Pair. <i>Symmetry</i> , 2022, 14, 920.	2.2	2
69	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
70	An integrable lattice hierarchy associated with a $4 \times 4$ matrix spectral problem: N-fold Darboux transformation and dynamical properties. <i>Applied Mathematics and Computation</i> , 2020, 387, 124525.	2.2	1
71	A lattice hierarchy associated with $RTL_+(\hat{1}\pm)$ system: Hamiltonian structures, discrete N-fold Darboux transformation, soliton elastic interactions and dynamics. <i>Chinese Journal of Physics</i> , 2021, , .	3.9	1
72	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

#	ARTICLE	IF	CITATIONS
73	Darboux transformation and multi-soliton solutions of (1+1)-dimensional dispersive long wave equations for water waves. , 2010, , .		0
74	Darboux transformation and soliton solutions of a nonlinear coupled differential-difference equation. , 2012, , .		0
75	N-soliton solutions for an integrable differential-difference equation with computer symbolic computation. , 2016, , .		0
76	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
77	Modulational instability and dynamics of rational soliton solutions for the coupled Volterra lattice equation associated with $4 \times 4$ Lax pair. Pramana - Journal of Physics, 2019, 93, 1.	1.8	0
78	Blowup for regular solutions and $C^1$ solutions of the two-phase model in $\mathbb{R}^N$ with a free boundary. AIMS Mathematics, 2022, 7, 15313-15330.	1.6	0