

# Wen-Xiu

## List of Publications by Year in descending order

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115  
papers

10,370  
citations

30551

56  
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36203

101  
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115  
docs citations

115  
times ranked

1378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soliton solutions by means of Hirota bilinear forms. <i>Partial Differential Equations in Applied Mathematics</i> , 2022, 5, 100220.	1.3	51
2	Riemann–Hilbert Problems and Soliton Solutions of Type $(\hat{I}^{\pm}, \hat{a}^{\pm})$ Reduced Nonlocal Integrable mKdV Hierarchies. <i>Mathematics</i> , 2022, 10, 870.	1.1	43
3	A binary Darboux transformation for multicomponent NLS equations and their reductions. <i>Analysis and Mathematical Physics</i> , 2021, 11, 1.	0.6	43
4	A combined method for simulating MHD convection in square cavities through localized heating by method of line and penalty-artificial compressibility. <i>Journal of Taibah University for Science</i> , 2021, 15, 208-217.	1.1	28
5	N-Fold Darboux Transformation for the Classical Three-Component Nonlinear Schrödinger Equations and Its Exact Solutions. <i>Mathematics</i> , 2021, 9, 733.	1.1	1
6	Inverse Scattering and Soliton Solutions of Nonlocal Complex Reverse-Spacetime Modified Korteweg-de Vries Hierarchies. <i>Symmetry</i> , 2021, 13, 512.	1.1	22
7	A polynomial conjecture connected with rogue waves in the KdV equation. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 3, 100023.	1.3	11
8	Application of the Lie symmetry approach to an extended Jimbo–Miwa equation in (3+1) dimensions. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	21
9	Nonlocal PT-Symmetric Integrable Equations of Fourth-Order Associated with $so(3, \hat{a}, \hat{b})$ . <i>Mathematics</i> , 2021, 9, 2130.	1.1	2
10	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e112" altimg="si3.svg"} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -soliton solutions and dynamic property analysis of a generalized three-component Hirota–Satsuma coupled KdV equation. <i>Applied Mathematics Letters</i> , 2021, 120, 107224.	1.5	41
11	Nonlocal PT-symmetric integrable equations and related Riemann–Hilbert problems. <i>Partial Differential Equations in Applied Mathematics</i> , 2021, 4, 100190.	1.3	52
12	Binary Darboux transformation and soliton solutions for the coupled complex modified Korteweg–de Vries equations. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 613-627.	1.2	20
13	Two integrable couplings of a generalized D-Kaup–Newell hierarchy and their Hamiltonian and bi-Hamiltonian structures. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2020, 191, 111629.	0.6	14
14	Inverse scattering for nonlocal reverse-time nonlinear Schrödinger equations. <i>Applied Mathematics Letters</i> , 2020, 102, 106161.	1.5	106
15	Lump-type solutions, rogue wave type solutions and periodic lump-stripe interaction phenomena to a $(3\hat{a} + \hat{a} \hat{c} 1)$ -dimensional generalized breaking soliton equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126178.	0.9	41
16	Inverse scattering and soliton solutions of nonlocal complex reverse-spacetime mKdV equations. <i>Journal of Geometry and Physics</i> , 2020, 157, 103845.	0.7	37
17	N-soliton solutions and the Hirota conditions in (2+1)-dimensions. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	1.5	133
18	$\hat{I}^{\pm}$ -Symmetry and $\hat{I}^{\pm}/4$ -Symmetry Reductions and Invariant Solutions of Four Nonlinear Differential Equations. <i>Mathematics</i> , 2020, 8, 1138.	1.1	6

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19	Inverse scattering transforms and soliton solutions of nonlocal reverse Schrödinger hierarchies. Studies in Applied Mathematics, 2020, 145, 563-585.	1.1	55
20	Determining lump solutions for a combined soliton equation in (2+1)-dimensions. European Physical Journal Plus, 2020, 135, 1.	1.2	88
21	Global Behavior of an Arbitrary-Order Nonlinear Difference Equation with a Nonnegative Function. Mathematics, 2020, 8, 825.	1.1	2
22	Lump solutions with higher-order rational dispersion relations. Pramana - Journal of Physics, 2020, 94, 1.	0.9	88
23	Lump and lump-soliton solutions to the Hirota-Satsuma-Ito equation. Communications in Nonlinear Science and Numerical Simulation, 2019, 68, 56-62.	1.7	144
24	Long-Time Asymptotics of a Three-Component Coupled mKdV System. Mathematics, 2019, 7, 573.	1.1	75
25	Riemann-Hilbert problems and soliton solutions of a multicomponent mKdV system and its reduction. Mathematical Methods in the Applied Sciences, 2019, 42, 1099-1113.	1.2	35
26	The inverse scattering transform and soliton solutions of a combined modified Korteweg-de Vries equation. Journal of Mathematical Analysis and Applications, 2019, 471, 796-811.	0.5	71
27	A Darboux transformation for the Volterra lattice equation. Analysis and Mathematical Physics, 2019, 9, 1711-1718.	0.6	29
28	On a class of coupled Hamiltonian operators and their integrable hierarchies with two potentials. Mathematical Methods in the Applied Sciences, 2018, 41, 3779-3789.	1.2	3
29	Diversity of interaction solutions to the (2+1)-dimensional Ito equation. Computers and Mathematics With Applications, 2018, 75, 289-295.	1.4	284
30	Completion of the Ablowitz-Kaup-Newell-Segur integrable coupling. Journal of Mathematical Physics, 2018, 59, .	0.5	13
31	Dynamics of mixed lump-solitary waves of an extended (2+1)-dimensional shallow water wave model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3262-3268.	0.9	63
32	Riemann-Hilbert problems of a six-component fourth-order AKNS system and its soliton solutions. Computational and Applied Mathematics, 2018, 37, 6359-6375.	1.3	23
33	A study of lump-type and interaction solutions to a (3+1)-dimensional Jimbo-Miwa-like equation. Computers and Mathematics With Applications, 2018, 76, 1576-1582.	1.4	44
34	Riemann-Hilbert problems and $N$ -soliton solutions for a coupled mKdV system. Journal of Geometry and Physics, 2018, 132, 45-54.	0.7	147
35	Mixed lump-kink solutions to the BKP equation. Computers and Mathematics With Applications, 2017, 74, 591-596.	1.4	217
36	Abundant lump-type solutions of the Jimbo-Miwa equation in $T_j$ ETQq0 0 0 rgBT /Overlock 10 Tf 50 72 Td (xmlns:mml="Computers and Mathematics With Applications, 2017, 73, 220-225.	1.4	107

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37	Trigonal curves and algebro-geometric solutions to soliton hierarchies II. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170233.	1.0	22
38	Trigonal curves and algebro-geometric solutions to soliton hierarchies I. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170232.	1.0	35
39	A direct bilinear Bäcklund transformation of a (2+1)-dimensional Korteweg-de Vries-like model. Applied Mathematics Letters, 2015, 50, 37-42.	1.5	86
40	Lump solutions to the Kadomtsev-Petviashvili equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1975-1978.	0.9	710
41	New Solutions for (1+1)-Dimensional and (2+1)-Dimensional Kaup-Kupershmidt Equations. Results in Mathematics, 2013, 63, 675-686.	0.4	33
42	Trilinear equations, Bell polynomials, and resonant solutions. Frontiers of Mathematics in China, 2013, 8, 1139-1156.	0.4	101
43	Bilinear Equations and Resonant Solutions Characterized by Bell Polynomials. Reports on Mathematical Physics, 2013, 72, 41-56.	0.4	134
44	A soliton hierarchy associated with $so(3, \mathbb{R})$ and its associated commuting soliton equations. Journal of Mathematical Physics, 2013, 54, 103509.	1.4	69
45	220, 117-122. A spectral problem based on $so(3, \mathbb{R})$ and its associated commuting soliton equations. Journal of Mathematical Physics, 2013, 54, 103509.	0.5	37
46	Tri-integrable Couplings by Matrix Loop Algebras. International Journal of Nonlinear Sciences and Numerical Simulation, 2013, 14, 377-388.	0.4	12
47	Solving the (3 + 1)-dimensional generalized KP and BKP equations by the multiple exp-function algorithm. Applied Mathematics and Computation, 2012, 218, 11871-11879.	1.4	346
48	Extended Gram-type determinant, wave and rational solutions to two (3+1)-dimensional nonlinear evolution equations. Applied Mathematics and Computation, 2012, 219, 213-225.	1.4	8
49	A bilinear Bäcklund transformation of a (3+1) -dimensional generalized KP equation. Applied Mathematics Letters, 2012, 25, 1500-1504.	1.5	113
50	A refined invariant subspace method and applications to evolution equations. Science China Mathematics, 2012, 55, 1769-1778.	0.8	90
51	Loop algebras and bi-integrable couplings. Chinese Annals of Mathematics Series B, 2012, 33, 207-224.	0.2	24
52	Hirota bilinear equations with linear subspaces of solutions. Applied Mathematics and Computation, 2012, 218, 7174-7183.	1.4	150
53	Integrable coupling hierarchy and Hamiltonian structure for a matrix spectral problem with arbitrary-order. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 585-592.	1.7	2
54	Uniqueness of the Kadomtsev-Petviashvili and Boussinesq Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2011, 66, 377-382.	0.7	7

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55	Combined Wronskian solutions to the 2D Toda molecule equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3931-3935.	0.9	14
56	Nonlinear continuous integrable Hamiltonian couplings. Applied Mathematics and Computation, 2011, 217, 7238-7244.	1.4	43
57	Linear superposition principle applying to Hirota bilinear equations. Computers and Mathematics With Applications, 2011, 61, 950-959.	1.4	367
58	Commutativity of the extended KP flows. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 722-730.	1.7	6
59	Comment on the 3+1 dimensional Kadomtsevâ€“Petviashvili equations. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2663-2666.	1.7	77
60	Wronskian determinant solutions of the (3+1)-dimensional Jimboâ€“Miwa equation. Applied Mathematics and Computation, 2011, 217, 8722-8730.	1.4	37
61	Wronskian and Grammian solutions to a (3 + 1)-dimensional generalized KP equation. Applied Mathematics and Computation, 2011, 217, 10016-10023.	1.4	122
62	The Bargmann symmetry constraint and binary nonlinearization of the super Dirac systems. Chinese Annals of Mathematics Series B, 2010, 31, 361-372.	0.2	31
63	Constructing nonlinear discrete integrable Hamiltonian couplings. Computers and Mathematics With Applications, 2010, 60, 2601-2608.	1.4	47
64	Component-trace identities for Hamiltonian structures. Applicable Analysis, 2010, 89, 457-472.	0.6	28
65	Do the chain rules for matrix functions hold without commutativity?. Linear and Multilinear Algebra, 2010, 58, 79-87.	0.5	3
66	COUPLING INTEGRABLE COUPLINGS. Modern Physics Letters B, 2009, 23, 1847-1860.	1.0	55
67	EXACT ONE-PERIODIC AND TWO-PERIODIC WAVE SOLUTIONS TO HIROTA BILINEAR EQUATIONS IN (2+1) DIMENSIONS. Modern Physics Letters A, 2009, 24, 1677-1688.	0.5	154
68	A second Wronskian formulation of the Boussinesq equation. Nonlinear Analysis: Theory, Methods & Applications, 2009, 70, 4245-4258.	0.6	176
69	Variational identities and applications to Hamiltonian structures of soliton equations. Nonlinear Analysis: Theory, Methods & Applications, 2009, 71, e1716-e1726.	0.6	67
70	Multi-component bi-Hamiltonian Dirac integrable equations. Chaos, Solitons and Fractals, 2009, 39, 282-287.	2.5	24
71	A transformed rational function method and exact solutions to the $3$ -dimensional Jimboâ€“Miwa equation. Chaos, Solitons and Fractals, 2009, 42, 1356-1363.	2.5	492
72	Direct search for exact solutions to the nonlinear Schrödinger equation. Applied Mathematics and Computation, 2009, 215, 2835-2842.	1.4	151

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73	AN APPLICATION OF THE CASORATIAN TECHNIQUE TO THE 2D TODA LATTICE EQUATION. <i>Modern Physics Letters B</i> , 2008, 22, 1815-1825.	1.0	36
74	Partial differential equations possessing Frobenius integrable decompositions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 364, 29-32.	0.9	149
75	A discrete variational identity on semi-direct sums of Lie algebras. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 15055-15069.	0.7	128
76	A Hamiltonian structure associated with a matrix spectral problem of arbitrary-order. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 367, 473-477.	0.9	36
77	Bilinear forms and Bäcklund transformations of the perturbation systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2005, 341, 441-449.	0.9	26
78	Complexiton solutions to integrable equations. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2005, 63, e2461-e2471.	0.6	87
79	Complexiton solutions of the Korteweg-de Vries equation with self-consistent sources. <i>Chaos, Solitons and Fractals</i> , 2005, 26, 1453-1458.	2.5	74
80	Generalized Casorati Determinant and Positon-Negaton-Type Solutions of the Toda Lattice Equation. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 831-837.	0.7	29
81	Positive and Negative Hierarchies of Integrable Lattice Models Associated with a Hamiltonian Pair. <i>International Journal of Theoretical Physics</i> , 2004, 43, 219-235.	0.5	108
82	Rational solutions of the Toda lattice equation in Casoratian form. <i>Chaos, Solitons and Fractals</i> , 2004, 22, 395-406.	2.5	143
83	Wronskians, generalized Wronskians and solutions to the Korteweg-de Vries equation. <i>Chaos, Solitons and Fractals</i> , 2004, 19, 163-170.	2.5	90
84	Complexiton solutions of the Toda lattice equation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 343, 219-237.	1.2	105
85	Diversity of exact solutions to a restricted Boiti-Leon-Pempinelli dispersive long-wave system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 319, 325-333.	0.9	52
86	Two integrable differential-difference equations derived from the discrete BKP equation and their related equations. <i>Physica D: Nonlinear Phenomena</i> , 2003, 175, 177-184.	1.3	14
87	Enlarging spectral problems to construct integrable couplings of soliton equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 316, 72-76.	0.9	181
88	Soliton, Positon and Negaton Solutions to a Schrödinger Self-consistent Source Equation. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 3017-3019.	0.7	70
89	A bi-Hamiltonian formulation for triangular systems by perturbations. <i>Journal of Mathematical Physics</i> , 2002, 43, 1408-1421.	0.5	45
90	Binary constrained flows and separation of variables for soliton equations. <i>ANZIAM Journal</i> , 2002, 44, 129-139.	0.3	20

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91	Adjoint Symmetry Constraints Leading to Binary Nonlinearization. Journal of Nonlinear Mathematical Physics, 2002, 9, 106.	0.8	63
92	Binary nonlinearization of spectral problems of the perturbation AKNS systems. Chaos, Solitons and Fractals, 2002, 13, 1451-1463.	2.5	18
93	Complexiton solutions to the Korteweg-de Vries equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 301, 35-44.	0.9	299
94	Application of Hirota's bilinear formalism to the Toeplitz lattice—some special soliton-like solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 293, 161-165.	0.9	115
95	Two binary Darboux transformations for the KdV hierarchy with self-consistent sources. Journal of Mathematical Physics, 2001, 42, 2113.	0.5	110
96	Solving the KdV hierarchy with self-consistent sources by inverse scattering method. Physica A: Statistical Mechanics and Its Applications, 2001, 291, 287-298.	1.2	123
97	Nonlinearization of spectral problems for the perturbation KdV systems. Physica A: Statistical Mechanics and Its Applications, 2001, 296, 60-74.	1.2	23
98	Binary symmetry constraints of N-wave interaction equations in 1+1 and 2+1 dimensions. Journal of Mathematical Physics, 2001, 42, 4345-4382.	0.5	73
99	Binary nonlinearization of AKNS spectral problem under higher-order symmetry constraints. Chaos, Solitons and Fractals, 2000, 11, 697-710.	2.5	34
100	The Hirota-Satsuma Coupled KdV Equation and a Coupled Ito System Revisited. Journal of the Physical Society of Japan, 2000, 69, 45-52.	0.7	103
101	Master Symmetries from Lax Operators for Certain Lattice Soliton Hierarchies. Journal of the Physical Society of Japan, 2000, 69, 351-361.	0.7	43
102	Integration of the soliton hierarchy with self-consistent sources. Journal of Mathematical Physics, 2000, 41, 5453-5489.	0.5	189
103	A coupled AKNS—Kaup—Newell soliton hierarchy. Journal of Mathematical Physics, 1999, 40, 4419-4428.	0.5	68
104	Algebraic structure of discrete zero curvature equations and master symmetries of discrete evolution equations. Journal of Mathematical Physics, 1999, 40, 2400-2418.	0.5	168
105	Separation of variables for soliton equations via their binary constrained flows. Journal of Mathematical Physics, 1999, 40, 6526-6557.	0.5	25
106	Extending Hamiltonian operators to get bi-Hamiltonian coupled KdV systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 246, 511-522.	0.9	32
107	The bi-Hamiltonian structure of the perturbation equations of the KdV hierarchy. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 213, 49-55.	0.9	137
108	Integrable theory of the perturbation equations. Chaos, Solitons and Fractals, 1996, 7, 1227-1250.	2.5	340

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109	Explicit and exact solutions to a Kolmogorov-Petrovskii-Piskunov equation. International Journal of Non-Linear Mechanics, 1996, 31, 329-338.	1.4	421
110	A 3 x 3 matrix spectral problem for AKNS hierarchy and its binary nonlinearization. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 331-354.	1.2	88
111	Symmetry constraint of MKdV equations by binary nonlinearization. Physica A: Statistical Mechanics and Its Applications, 1995, 219, 467-481.	1.2	75
112	New Finite-Dimensional Integrable Systems by Symmetry Constraint of the KdV Equations. Journal of the Physical Society of Japan, 1995, 64, 1085-1091.	0.7	52
113	An explicit symmetry constraint for the Lax pairs and the adjoint Lax pairs of AKNS systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 185, 277-286.	0.9	210
114	A simple scheme for generating nonisospectral flows from the zero curvature representation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1993, 179, 179-185.	0.9	46
115	Lax representations and Lax operator algebras of isospectral and nonisospectral hierarchies of evolution equations. Journal of Mathematical Physics, 1992, 33, 2464-2476.	0.5	89