Biao Li

List of Publications by Year in Descending Order

119 papers	1,794 citations	25 h-index	36 g-index
131 ext. papers	2,154 ext. citations	2.8 avg, IF	5.71 L-index

#	Paper	IF	Citations
119	The generation mechanism of multiple-pole solutions for the fifth-order mKdV equation. *European Physical Journal Plus*, **2022**, 137, 1	3.1	0
118	New mixed solutions generated by velocity resonance in the $$(2+1)$$-dimensional Sawada Kotera equation. *Nonlinear Dynamics*, **2022**, 108, 1617	5	1
117	Lump molecules in fluid systems: Kadomtsev-Petviashvili I case. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2022**, 424, 127848	2.3	3
116	Degenerate lump interactions within the Kadomtsev Petviashvili equation. *Communications in Nonlinear Science and Numerical Simulation*, **2022**, 106555	3.7	2
115	Resonance Y-type soliton solutions and some new types of hybrid solutions in the (2+1)-dimensional Sawada Kotera equation. *Communications in Theoretical Physics*, **2021**, 73, 045006	2.4	8
114	Breather Positons and Rogue Waves for the Nonlocal Fokas-Lenells Equation. *Advances in Mathematical Physics*, **2021**, 2021, 1-6	1.1	0
113	Soliton Molecules and Full Symmetry Groups to the KdV-Sawada-Kotera-Ramani Equation. *Advances in Mathematical Physics*, **2021**, 2021, 1-7	1.1	0
112	Fusion and fission phenomena for(2+1)-dimensional fifth-order KdV system. *Applied Mathematics Letters*, **2021**, 116, 107004	3.5	17
111	Space-Curved Resonant Line Solitons in a Generalized (2 + 1)-Dimensional Fifth-Order KdV System. *Chinese Physics Letters*, **2021**, 38, 060501	1.8	3
110	GENERAL HIGH-ORDER BREATHER SOLUTIONS, LUMP SOLUTIONS AND MIXED SOLUTIONS IN THE (2+1)-DIMENSIONAL BIDIRECTIONAL SAWADA-KOTERA EQUATION. *Journal of Applied Analysis and Computation*, **2021**, 11, 271-286	0.4	
109	Resonance Y-shaped soliton and interaction solutions in the (2 + 1)-dimensional B-type Kadomtsev Petviashvili equation. *International Journal of Modern Physics B*, **2021**, 35, 2150222	1.1	2
108	Resonant line wave soliton solutions and interaction solutions for (2+1)-dimensional nonlinear wave equation. *Results in Physics*, **2021**, 27, 104480	3.7	2
107	Construction of higher-order smooth positons and breather positons via Hirota S bilinear method. *Nonlinear Dynamics*, **2021**, 105, 2611-2618	5	5
106	A new class of nonlinear superposition between lump waves and other waves for Kadomtsev Petviashvili I equation. *Communications in Nonlinear Science and Numerical Simulation*, **2021**, 101, 105866	3.7	17
105	High-Order Breather Solutions, Lump Solutions, and Hybrid Solutions of a Reduced Generalized (3 + 1)-Dimensional Shallow Water Wave Equation. *Complexity*, **2020**, 2020, 1-13	1.6	0
104	Two types of smooth positons for nonlocal Fokas-Lenells equation. *International Journal of Modern Physics B*, **2020**, 34, 2050148	1.1	3
103	Soliton molecules and dynamics of the smooth positon for the Gerdjikov Ivanov equation. *Chinese Physics B*, **2020**, 29, 100501	1.2	5

102	Soliton Molecules and Some Hybrid Solutions for the Nonlinear Schrödinger Equation*. *Chinese Physics Letters*, **2020**, 37, 030501	1.8	24
101	Novel soliton molecules and breather-positon on zero background for the complex modified KdV equation. *Nonlinear Dynamics*, **2020**, 100, 1551-1557	5	33
100	Soliton molecules, asymmetric solitons and some new types of hybrid solutions in (2+1)-dimensional Sawada-Kotera model. *Modern Physics Letters B*, **2020**, 34, 2050141	1.6	5
99	Soliton Molecules and Some Novel Types of Hybrid Solutions to (2 + 1)-Dimensional Variable-Coefficient Caudrey-Dodd-Gibbon-Kotera-Sawada Equation. *Advances in Mathematical Physics*, **2020**, 2020, 1-9	1.1	12
98	Breathers, lumps and hybrid solutions of the $(2{+}1)$-dimensional Hirota-Satsuma-Ito equation. *Rocky Mountain Journal of Mathematics*, **2020**, 50,	1.4	6
97	Soliton molecules and mixed solutions of the (2+1)-dimensional bidirectional Sawada-Kotera equation. *Communications in Theoretical Physics*, **2020**, 72, 025002	2.4	32
96	Multisoliton solutions with even numbers and its generated solutions for nonlocal Fokas-Lenells equation. *Communications in Theoretical Physics*, **2020**, 72, 125007	2.4	3
95	Novel high-order breathers and rogue waves in the Boussinesq equation via determinants. *Mathematical Methods in the Applied Sciences*, **2020**, 43, 3701-3715	2.3	11
94	Soliton molecules and some novel interaction solutions to the (2+1)-dimensional B-type Kadomtsev-Petviashvili equation. *Physica Scripta*, **2020**, 95, 045213	2.6	29
93	Soliton molecules and novel smooth positons for the complex modified KdV equation. *Applied Mathematics Letters*, **2020**, 103, 106168	3.5	62
92	Weakly Coupled B-Type Kadomtsev-Petviashvili Equation: Lump and Rational Solutions. *Advances in Mathematical Physics*, **2020**, 2020, 1-8	1.1	3
91	High-order breathers, lumps and hybrid solutions to the (2+1)-dimensional fifth-order KdV equation. *International Journal of Modern Physics B*, **2019**, 33, 1950255	1.1	10
90	Optical solitons and stability analysis for the generalized fourth-order nonlinear Schrödinger equation. *Modern Physics Letters B*, **2019**, 33, 1950333	1.6	1
89	Peakon Solutions of Alice-Bob b-Family Equation and Novikov Equation. *Advances in Mathematical Physics*, **2019**, 2019, 1-8	1.1	4
88	Darboux Transformations, Higher-Order Rational Solitons and Rogue Wave Solutions for a (2 + 1)-Dimensional Nonlinear Schrödinger Equation. *Communications in Theoretical Physics*, **2019**, 71, 027	2.4	9
87	Analytical Solutions and Integrable Structure of the Time-Dependent Harmonic Oscillator With Friction. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2019**, 74, 269-280	1.4	
86	Non-traveling lump solutions and mixed lump-kink solutions to (2+1)-dimensional variable-coefficient Caudrey-Dodd-Gibbon-Kotera-Sawada equation. *Modern Physics Letters B*, **2019**, 33, 1950262	1.6	26
85	Trajectory equation of a lump before and after collision with line, lump, and breather waves for (2+1)-dimensional Kadomtsev-Petviashvili equation. *Chinese Physics B*, **2019**, 28, 110201	1.2	25

84	Soliton Molecules, Asymmetric Solitons and Hybrid Solutions for (2+1)-Dimensional Fifth-Order KdV Equation. *Chinese Physics Letters*, **2019**, 36, 120501	1.8	48
83	General high-order breathers, lumps in the (mathbf (2+1))-dimensional Boussinesq equation. *Nonlinear Dynamics*, **2018**, 92, 2061-2076	5	44
82	Dark Sharma Tasso Olver Equations and Their Recursion Operators. *Chinese Physics Letters*, **2018**, 35, 010201	1.8	8
81	Classification and Recursion Operators of Dark Burgers Equation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2018**, 73, 175-180	1.4	5
80	Rogue Waves in the (2+1)-Dimensional Nonlinear Schrödinger Equation with a Parity-Time-Symmetric Potential. *Chinese Physics Letters*, **2017**, 34, 010202	1.8	32
79	Some Interaction Solutions of a Reduced Generalised (3+1)-Dimensional Shallow Water Wave Equation for Lump Solutions and a Pair of Resonance Solitons. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2017**, 72, 419-424	1.4	20
78	A Pair of Resonance Stripe Solitons and Lump Solutions to a Reduced (3+1)-Dimensional Nonlinear Evolution Equation. *Communications in Theoretical Physics*, **2017**, 67, 595	2.4	60
77	Dynamics of rogue waves on multisoliton background in the Benjamin Ono equation **2017**, 88, 1		18
76	Lump Solutions and Resonance Stripe Solitons to the (2+1)-Dimensional Sawada-Kotera Equation. *Advances in Mathematical Physics*, **2017**, 2017, 1-6	1.1	14
75	The integrability conditions and solutions of nonautonomous Hirota equation. *Nonlinear Dynamics*, **2017**, 90, 2111-2118	5	8
74	Hybrid soliton solutions in the (2+1)-dimensional nonlinear Schrödinger equation. *Modern Physics Letters B*, **2017**, 31, 1750298	1.6	12
73	Classification of Dark Modified KdV Equation. *Communications in Theoretical Physics*, **2017**, 68, 13	2.4	4
72	CRE Solvability, Exact Soliton-Cnoidal Wave Interaction Solutions, and Nonlocal Symmetry for the Modified Boussinesq Equation. *Advances in Mathematical Physics*, **2016**, 2016, 1-7	1.1	6
71	Residual Symmetry and Explicit Soliton Cnoidal Wave Interaction Solutions of the (2+1)-Dimensional KdV mKdV Equation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2016**, 71, 351-356	1.4	4
70	Nonlocal symmetry and exact solutions of the (2+1)-dimensional Gardner equation. *Chinese Journal of Physics*, **2016**, 54, 718-723	3.5	31
69	Nonlocal symmetry and exact solutions of the (2+1)- dimensional breaking soliton equation. *Communications in Nonlinear Science and Numerical Simulation*, **2015**, 29, 198-207	3.7	34
68	Construction of Soliton-Cnoidal Wave Interaction Solution for the (2+1)-Dimensional Breaking Soliton Equation. *Communications in Theoretical Physics*, **2015**, 63, 549-553	2.4	21
67	Residual symmetries of the modified Korteweg-de Vries equation and its localization. *Open Physics*, **2014**, 12,	1.3	2

66	Bell Polynomials Approach Applied to (2 + 1)-Dimensional Variable-Coefficient Caudrey-Dodd-Gibbon-Kotera-Sawada Equation. *Abstract and Applied Analysis*, **2014**, 2014, 1-10	0.7	6
65	Formation of dark state in coupled atomic-molecular Bose-Einstein condensates with an external potential. *Optics Communications*, **2013**, 291, 455-460	2	
64	Novel exact solutions of coupled nonlinear Schrödinger equations with time-space modulation. *Chinese Physics B*, **2013**, 22, 110306	1.2	5
63	Extended symmetry transformation of (3+1)-dimensional generalized nonlinear Schrödinger equation with variable coefficients. *Chinese Physics B*, **2013**, 22, 010303	1.2	42
62	Rotating spin-orbit coupled Bose-Einstein condensates in concentrically coupled annular traps. *Laser Physics*, **2013**, 23, 105501	1.2	4
61	Exact self-similar wave solutions for the generalized (3 + 1)-dimensional cubic-quintic nonlinear Schrödinger equation with distributed coefficients. *Optics Communications*, **2012**, 285, 779-783	2	8
60	Multiple (G?/G)-expansion method and its applications to nonlinear evolution equations in mathematical physics **2012**, 78, 375-388		10
59	Recursion operators and conservation laws for discrete Lax equations. *Journal of Mathematical Physics*, **2012**, 53, 043506	1.2	3
58	Demonstration of the Gunnarsson-Lundqvist theorem and the multiplicity of potentials for excited states. *Physical Review A*, **2012**, 85,	2.6	11
57	Exact Solutions to the Two-Dimensional Spatially Inhomogeneous Cubic-Quintic Nonlinear Schrödinger Equation with an External Potential. *Chinese Physics Letters*, **2012**, 29, 070303	1.8	4
56	Dynamics of Matter-Wave Solitons for Three-Dimensional Bose-Einstein Condensates with Time-Space Modulation. *Chinese Physics Letters*, **2012**, 29, 090303	1.8	1
55	Three-Dimensional Bright-Dark Soliton, Bright Soliton Pairs, and Rogue Wave of Coupled Nonlinear Schrödinger Equation with Time-Space Modulation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2012**, 67, 483-490	1.4	2
54	Solitons for a generalized variable-coefficient nonlinear Schrödinger equation. *Chinese Physics B*, **2011**, 20, 040203	1.2	24
53	Dynamics of solitons of the generalized (3+1)-dimensional nonlinear Schrödinger equation with distributed coefficients. *Chinese Physics B*, **2011**, 20, 114219	1.2	4
52	Matter-Wave Solitons in Two-Dimensional Bose-Einstein Condensates with Time-Dependent Scattering Length in a Harmonic Trap. *Communications in Theoretical Physics*, **2011**, 56, 445-450	2.4	1
51	Recursion Operators of Two Supersymmetric Equations. *Communications in Theoretical Physics*, **2011**, 55, 199-203	2.4	2
50	Exact analytical solutions of three-dimensional Gross-Pitaevskii equation with time-space modulation. *Chinese Physics B*, **2011**, 20, 050315	1.2	5
49	Finite symmetry transformation groups and some exact solutions of the Wu-Zhang equation **2011**,		1

48	Propagation and interaction of matter-wave solitons in Bose–Einstein condensates with time-dependent scattering length and varying potentials. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2011**, 44, 175301	1.3	15
47	Localized Nonlinear Waves in Nonlinear Schrödinger Equation with Nonlinearities Modulated in Space and Time. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2011**, 66, 728-734	1.4	1
46	Full symmetry groups, Painlevé integrability and exact solutions of the nonisospectral BKP equation. *Applied Mathematics and Computation*, **2010**, 217, 1555-1560	2.7	7
45	ANTICIPATED FUNCTION SYNCHRONIZATION WITH UNKNOWN PARAMETERS OF DISCRETE-TIME CHAOTIC SYSTEMS. *International Journal of Modern Physics C*, **2009**, 20, 597-608	1.1	10
44	EXTENDED SYMMETRIES AND SOLUTIONS OF (2 + 1)-DIMENSIONAL NONLINEAR SCHRÖDINGER EQUATION WITH VARIABLE COEFFICIENTS. *International Journal of Modern Physics C*, **2009**, 20, 1681-1696	1.1	1
43	Finite symmetry transformation groups and exact solutions of the cylindrical Korteweg-de Vries equation. *Chaos, Solitons and Fractals*, **2009**, 42, 2623-2628	9.3	3
42	Symmetry, full symmetry groups, and some exact solutions to a generalized Davey–Stewartson system. *Journal of Mathematical Physics*, **2008**, 49, 103503	1.2	12
41	Solitons in Bose-Einstein condensates with time-dependent atomic scattering length in an expulsive parabolic and complex potential. *Physical Review A*, **2008**, 78,	2.6	70
40	A Generalized Sub-Equation Expansion Method and Some Analytical Solutions to the Inhomogeneous Higher-Order Nonlinear Schrödinger Equation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2008**, 63, 763-777	1.4	13
39	An extended subequation rational expansion method with symbolic computation and solutions of the nonlinear Schrödinger equation model. *Nonlinear Analysis: Hybrid Systems*, **2008**, 2, 242-255	4.5	8
38	Symbolic computation and solitons of the nonlinear Schrödinger equation in inhomogeneous optical fiber media. *Chaos, Solitons and Fractals*, **2007**, 33, 532-539	9.3	20
37	A GENERALIZED SUB-EQUATION EXPANSION METHOD AND ITS APPLICATION TO THE NONLINEAR SCHRÖDINGER EQUATION IN INHOMOGENEOUS OPTICAL FIBER MEDIA. *International Journal of Modern Physics C*, **2007**, 18, 1187-1201	1.1	16
36	Conservation laws of discrete Lax equations. *Journal of Physics A: Mathematical and Theoretical*, **2007**, 40, 3425-3440	2	3
35	Some Exact Analytical Solutions to the Inhomogeneous Higher-Order Nonlinear Schrödinger Equation Using Symbolic Computation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2006**, 61, 509-518	1.4	1
34	EXACT SOLITON SOLUTIONS FOR THE HIGHER-ORDER NONLINEAR SCHRÖDINGER EQUATION. *International Journal of Modern Physics C*, **2005**, 16, 1225-1237	1.1	10
33	The stochastic soliton-like solutions of stochastic KdV equations. *Chaos, Solitons and Fractals*, **2005**, 23, 1465-1473	9.3	5
32	New exact travelling wave solutions for the shallow long wave approximate equations. *Applied Mathematics and Computation*, **2005**, 160, 77-88	2.7	20
31	Exact solutions for two nonlinear wave equations with nonlinear terms of any order. *Communications in Nonlinear Science and Numerical Simulation*, **2005**, 10, 133-138	3.7	19

30	Elliptic equation rational expansion method and new exact travelling solutions for Whitham–Broer–Kaup equations. *Chaos, Solitons and Fractals*, **2005**, 26, 231-246	9.3	39
29	The stochastic soliton-like solutions of stochastic mKdV equations. *European Physical Journal D*, **2005**, 55, 1-8		9
28	A Truncated Painlevé Expansion and Exact Analytical Solutions for the Nonlinear Schrödinger Equation with Variable Coefficients. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2005**, 60, 768-774	1.4	3
27	Exact Soliton Solutions To An Averaged Dispersion-Managed Fiber System Equation. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2004**, 59, 919-926	1.4	4
26	CONSTRUCTING FAMILIES OF EXACT SOLUTIONS TO A (2+1)-DIMENSIONAL CUBIC NONLINEAR SCHRÖDINGER EQUATION. *International Journal of Modern Physics C*, **2004**, 15, 741-751	1.1	8
25	New exact solutions for some nonlinear differential equations using symbolic computation. *Applied Mathematics and Computation*, **2004**, 149, 277-298	2.7	27
24	Generalized Riccati equation expansion method and its application to the (3+1)-dimensional Jumbo–Miwa equation. *Applied Mathematics and Computation*, **2004**, 152, 581-595	2.7	38
23	Auto-Bäklund transformations and exact solutions for some nonlinear partial differential equations with nonlinear terms of any order. *European Physical Journal D*, **2004**, 54, 167-176		3
22	Exact Analytical Solutions of the Generalized Calogero-Bogoyavlenskii-Schiff Equation Using Symbolic Computation. *European Physical Journal D*, **2004**, 54, 517-528		15
21	Explicit exact solutions for a new generalized Hamiltonian amplitude equation with nonlinear terms of any order. *Zeitschrift Fur Angewandte Mathematik Und Physik*, **2004**, 55, 983-993	1.6	4
20	General projective Riccati equation method and exact solutions for generalized KdV-type and KdV–Burgers-type equations with nonlinear terms of any order. *Chaos, Solitons and Fractals*, **2004**, 19, 977-984	9.3	67
19	Symbolic computation and construction of soliton-like solutions to the (2+1)-dimensional dispersive long-wave equations. *International Journal of Engineering Science*, **2004**, 42, 715-724	5.7	5
18	New exact solutions for modified nonlinear dispersive equations mK(m,n) in higher dimensions spaces. *Mathematics and Computers in Simulation*, **2004**, 64, 549-559	3.3	8
17	On exact solutions of the nonlinear Schrödinger equations in optical fiber. *Chaos, Solitons and Fractals*, **2004**, 21, 241-247	9.3	39
16	A generalized method and general form solutions to the Whitham–Broer–Kaup equation. *Chaos, Solitons and Fractals*, **2004**, 22, 675-682	9.3	29
15	EXACT TRAVELING WAVE SOLUTIONS FOR SOME NONLINEAR EVOLUTION EQUATIONS WITH NONLINEAR TERMS OF ANY ORDER. *International Journal of Modern Physics C*, **2003**, 14, 99-112	1.1	20
14	GENERALIZED RICCATI EQUATION EXPANSION METHOD AND ITS APPLICATION TO THE (2+1)-DIMENSIONAL BOUSSINESQ EQUATION. *International Journal of Modern Physics C*, **2003**, 14, 471-482	1.1	6
13	Auto-Bäcklund Transformations And Exact Solutions For The Generalized Two-Dimensional Korteweg-De Vries-Burgers-Type Equations And Burgers-Type Equations. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2003**, 58, 464-472	1.4	5

12	Nonlinear Partial Differential Equations Solved by Projective Riccati Equations Ansatz. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2003**, 58, 511-519	1.4	14
11	Explicit Exact Solutions for Some Nonlinear Partial Differential Equations with Nonlinear Terms of Any Order. *European Physical Journal D*, **2003**, 53, 283-295		12
10	Exact travelling wave solutions for a generalized Zakharov-Kuznetsov equation. *Applied Mathematics and Computation*, **2003**, 146, 653-666	2.7	68
9	Explicit exact solutions for compound KdV-type and compound KdV-Burgers-type equations with nonlinear terms of any order. *Chaos, Solitons and Fractals*, **2003**, 15, 647-654	9.3	67
8	Exact solutions for a new class of nonlinear evolution equations with nonlinear term of any order. *Chaos, Solitons and Fractals*, **2003**, 17, 675-682	9.3	23
7	Auto-Bäklund transformation and exact solutions for modified nonlinear dispersive mK(m,n) equations. *Chaos, Solitons and Fractals*, **2003**, 17, 693-698	9.3	35
6	Symbolic computation and construction of soliton-like solutions for a breaking soliton equation. *Chaos, Solitons and Fractals*, **2003**, 17, 885-893	9.3	27
5	Auto-Bäklund transformation and exact solutions for compound KdV-type and compound KdV-Burgers-type equations with nonlinear terms of any order. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2002**, 305, 377-382	2.3	51
4	Explicit exact solutions for new general two-dimensional KdV-type and two-dimensional KdV′Burgers-type equations with nonlinear terms of any order. *Journal of Physics A*, **2002**, 35, 8253-8265		47
3	Travelling Wave Solutions for Generalized Pochhammer-Chree Equations. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2002**, 57, 874-882	1.4	16
2	Gradient-optimized physics-informed neural networks (GOPINNs): a deep learning method for solving the complex modified KdV equation. *Nonlinear Dynamics*, 1	5	1
1	Y-shaped soliton solutions for the (2+1)-dimensional bidirectional Sawada-Kotera equation. *Modern Physics Letters B*,	1.6	1