

Sheng Zhang

List of Publications by Year in descending order

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201674

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128
all docs

128
docs citations

128
times ranked

917
citing authors

#	ARTICLE	IF	CITATIONS
1	Fractional sub-equation method and its applications to nonlinear fractional PDEs. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1069-1073.	2.1	390
2	A generalized ϵ -expansion method for the mKdV equation with variable coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2254-2257.	2.1	309
3	Application of Exp-function method to a KdV equation with variable coefficients. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 448-453.	2.1	179
4	Application of Exp-function method to high-dimensional nonlinear evolution equation. Chaos, Solitons and Fractals, 2008, 38, 270-276.	5.1	128
5	A generalized auxiliary equation method and its application to the (2+1)-dimensional KdV equations. Applied Mathematics and Computation, 2007, 188, 1-6.	2.2	120
6	Exp-function method for solving Maccari's system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 371, 65-71.	2.1	90
7	A generalized new auxiliary equation method and its applications to nonlinear partial differential equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 363, 356-360.	2.1	87
8	The periodic wave solutions for the (2+1)-dimensional Konopelchenko-Dubrovsky equations. Chaos, Solitons and Fractals, 2006, 30, 1213-1220.	5.1	84
9	A generalized auxiliary equation method and its application to (2+1)-dimensional asymmetric Nizhnik-Novikov-Vesselov equations. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 227-248.	2.1	69
10	The ϵ -expansion method for nonlinear differential-difference equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 905-910.	2.1	68
11	A generalized F-expansion method and new exact solutions of Konopelchenko-Dubrovsky equations. Applied Mathematics and Computation, 2006, 183, 1190-1200.	2.2	67
12	A further improved extended Fan sub-equation method and its application to the ()-dimensional Kadomstev-Petviashvili equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 356, 119-123.	2.1	66
13	New exact solutions of the KdV-Burgers-Kuramoto equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 358, 414-420.	2.1	63
14	Bilinearization and new multisoliton solutions for the (4+1)-dimensional Fokas equation. Pramana - Journal of Physics, 2016, 86, 1259-1267.	1.8	51
15	Symbolic computation and new families of exact non-travelling wave solutions of (2+1)-dimensional Konopelchenko-Dubrovsky equations. Chaos, Solitons and Fractals, 2007, 31, 951-959.	5.1	47
16	Application of Exp-function method to Riccati equation and new exact solutions with three arbitrary functions of Broer-Kaup-Kupershmidt equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1873-1880.	2.1	45
17	Exact solutions of a KdV equation with variable coefficients via Exp-function method. Nonlinear Dynamics, 2008, 52, 11-17.	5.2	42
18	Further improved F-expansion method and new exact solutions of Kadomstev-Petviashvili equation. Chaos, Solitons and Fractals, 2007, 32, 1375-1383.	5.1	41

#	ARTICLE	IF	CITATIONS
19	Further improved extended Fan sub-equation method and new exact solutions of the (2+1)-dimensional Broer-Kaup-Kupershmidt equations. Applied Mathematics and Computation, 2006, 182, 1651-1660.	2.2	39
20	Variable separation method for a nonlinear time fractional partial differential equation with forcing term. Journal of Computational and Applied Mathematics, 2018, 339, 297-305.	2.0	38
21	A generalized -expansion method and its application to the (2+1)-dimensional Broer-Kaup equations. Applied Mathematics and Computation, 2009, 209, 399-404.	2.2	37
22	He's fractional derivative for heat conduction in a fractal medium arising in silkworm cocoon hierarchy. Thermal Science, 2015, 19, 1155-1159.	1.1	36
23	A generalized auxiliary equation method and its application to (2+1) -dimensional Korteweg-de Vries equations. Computers and Mathematics With Applications, 2007, 54, 1028-1038.	2.7	34
24	New exact non-traveling wave and coefficient function solutions of the ()-dimensional breaking soliton equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 368, 470-475.	2.1	30
25	A generalized new auxiliary equation method and its application to the (2+1)-dimensional breaking soliton equations. Applied Mathematics and Computation, 2007, 190, 510-516.	2.2	29
26	The periodic wave solutions for the (2+1)-dimensional dispersive long water equations. Chaos, Solitons and Fractals, 2007, 32, 847-854.	5.1	28
27	A transformed rational function method for (3+1)-dimensional potential Yu-Toda-Sasa-Fukuyama equation. Pramana - Journal of Physics, 2011, 76, 561-571.	1.8	28
28	Symbolic computation and new families of exact non-travelling wave solutions to (3 + 1)-dimensional Kadomstev-Petviashvili equation. Applied Mathematics and Computation, 2006, 181, 319-331.	2.2	27
29	Symbolic Computation and New Families of Exact Non-travelling Wave Solutions of (2+1)-dimensional Broer-Kaup Equations. Communications in Theoretical Physics, 2006, 45, 985-990.	2.5	26
30	An improved generalized F-expansion method and its application to the (2+1)-dimensional KdV equations. Communications in Nonlinear Science and Numerical Simulation, 2008, 13, 1294-1301.	3.3	26
31	A generalized F-expansion method with symbolic computation exactly solving Broer-Kaup equations. Applied Mathematics and Computation, 2007, 189, 836-843.	2.2	25
32	The improved sub-ODE method for a generalized KdV-mKdV equation with nonlinear terms of any order. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3808-3813.	2.1	25
33	New periodic wave solutions via extended mapping method. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2-11.	3.3	25
34	Exp-function method exactly solving a KdV equation with forcing term. Applied Mathematics and Computation, 2008, 197, 128-134.	2.2	24
35	Exp-function method for constructing explicit and exact solutions of a lattice equation. Applied Mathematics and Computation, 2008, 199, 242-249.	2.2	24
36	A Generalized (G'/G)-Expansion Method for the Nonlinear Schrödinger Equation with Variable Coefficients. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2009, 64, 691-696.	1.5	24

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37	Exp-function method for N-soliton solutions of nonlinear evolution equations in mathematical physics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2501-2505. An Exp-function method for new	2.1	23
38	solutions with arbitrary functions of a vcBK system. Computers and Mathematics With Applications, 2011, 61, 1923-1930.	2.7	23
39	Exp-function method for a nonlinear ordinary differential equation and new exact solutions of the dispersive long wave equations. Computers and Mathematics With Applications, 2009, 58, 2294-2299.	2.7	22
40	Exact solutions of a KdV equation hierarchy with variable coefficients. International Journal of Computer Mathematics, 2014, 91, 1601-1616.	1.8	19
41	A direct algorithm of exp-function method for non-linear evolution equations in fluids. Thermal Science, 2016, 20, 881-884.	1.1	19
42	Variable-coefficient Jacobi elliptic function expansion method for (2+1)-dimensional Nizhnikâ€Novikovâ€Vesselov equations. Applied Mathematics and Computation, 2011, 218, 1308-1316.	2.2	18
43	Variable separation method for nonlinear time fractional biological population model. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1531-1541.	2.8	18
44	N-soliton solutions and nonlinear dynamics for two generalized Broerâ€Kaup systems. Nonlinear Dynamics, 2022, 107, 1179-1193.	5.2	18
45	Exp-function method for Riccati equation and new exact solutions with two arbitrary functions of (2+1)-dimensional Konopelchenkoâ€Dubrovsky equations. Applied Mathematics and Computation, 2010, 216, 1546-1552.	2.2	17
46	Multi-soliton solutions of a variable-coefficient KdV hierarchy. Nonlinear Dynamics, 2014, 78, 1593-1600.	5.2	17
47	Multisoliton solutions of a (2+1)-dimensional variable-coefficient Toda lattice equation via Hirotaâ€™s bilinear method. Canadian Journal of Physics, 2014, 92, 184-190.	1.1	14
48	Soliton solutions and dynamical evolutions of a generalized AKNS system in the framework of inverse scattering transform. Optik, 2017, 137, 228-237.	2.9	14
49	Model of moisture diffusion in fractal media. Thermal Science, 2015, 19, 1161-1166.	1.1	14
50	Discrete Jacobi elliptic function expansion method for nonlinear differential-difference equations. Physica Scripta, 2009, 80, 045002.	2.5	13
51	The (Gâ€²/C)-expansion method for a discrete nonlinear SchrÃ¶dinger equation. Pramana - Journal of Physics, 2010, 74, 207-218.	1.8	13
52	A generalized Tu formula and Hamiltonian structures of fractional AKNS hierarchy. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 3659-3663.	2.1	13
53	Line Soliton Interactions for Shallow Ocean Waves and Novel Solutions with Peakon, Ring, Conical, Columnar, and Lump Structures Based on Fractional KP Equation. Advances in Mathematical Physics, 2021, 2021, 1-15.	0.8	13
54	A further improved extended Fan sub-equation method for (2+1)-dimensional breaking soliton equations. Applied Mathematics and Computation, 2008, 199, 259-267.	2.2	12

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55	The third kind of Darboux transformation and multisoliton solutions for generalized Broer–Kaup equations. <i>Turkish Journal of Physics</i> , 2015, 39, 165-177.	1.1	12
56	Exact N -soliton solutions and dynamics of a new AKNS equation with time-dependent coefficients. <i>Nonlinear Dynamics</i> , 2016, 83, 1043-1052.	5.2	12
57	Painlevé Integrability and New Exact Solutions of the $(4 + 1)$ -Dimensional Fokas Equation. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-7.	1.1	11
58	A Family of Newton Type Iterative Methods for Solving Nonlinear Equations. <i>Algorithms</i> , 2015, 8, 786-798.	2.1	11
59	The Modified (G'/G) -Expansion Method for Nonlinear Evolution Equations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2011, 66, 33-39.	1.5	10
60	Lax Integrability and Exact Solutions of a Variable-Coefficient and Nonisospectral AKNS Hierarchy. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2018, 19, 251-262.	1.0	10
61	Exact solutions and dynamics of generalized AKNS equations associated with the nonisospectral depending on exponential function. <i>Journal of Nonlinear Science and Applications</i> , 2016, 09, 4529-4541.	1.0	10
62	Variable-coefficient extended mapping method for nonlinear evolution equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 1741-1749.	2.1	9
63	Multi-wave solutions for a non-isospectral KDV-type equation with variable coefficients. <i>Thermal Science</i> , 2012, 16, 1476-1479.	1.1	9
64	Riemann–Hilbert Approach for Constructing Analytical Solutions and Conservation Laws of a Local Time-Fractional Nonlinear Schrödinger Type Equation. <i>Symmetry</i> , 2021, 13, 1593.	2.2	9
65	Simplest exp-function method for exact solutions of Mikhailov-Novikov-Wang equations. <i>Thermal Science</i> , 2019, 23, 2381-2388.	1.1	9
66	Exp-Function Method for N-Soliton Solutions of Nonlinear Differential-Difference Equations. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2010, 65, 924-934.	1.5	8
67	Analytic solutions of a $(2 + 1)$ -dimensional variable-coefficient Broer-Kaup system. <i>Mathematical Methods in the Applied Sciences</i> , 2011, 34, 160-167.	2.3	8
68	Exact Solutions of Non-Linear Lattice Equations by an Improved Exp-Function Method. <i>Entropy</i> , 2015, 17, 3182-3193.	2.2	8
69	Variable-coefficient nonisospectral Toda lattice hierarchy and its exact solutions. <i>Pramana - Journal of Physics</i> , 2015, 85, 1143-1156.	1.8	8
70	Exact solutions of time fractional heat-like and wave-like equations with variable coefficients. <i>Thermal Science</i> , 2016, 20, 689-693.	1.1	8
71	A generalized exp-function method for multiwave solutions of sine-Gordon equation. <i>Pramana - Journal of Physics</i> , 2013, 81, 763-773.	1.8	7
72	Mixed spectral AKNS hierarchy from linear isospectral problem and its exact solutions. <i>Open Physics</i> , 2015, 13, .	1.7	7

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73	Fractional Soliton Dynamics and Spectral Transform of Time-Fractional Nonlinear Systems: A Concrete Example. Complexity, 2019, 2019, 1-9.	1.6	7
74	Bilinearization and fractional soliton dynamics of fractional Kadomtsev-Petviashvili equation. Thermal Science, 2019, 23, 1425-1431.	1.1	7
75	Exact solutions with arbitrary functions of the (4+1)-dimensional fokas equation. Thermal Science, 2019, 23, 2403-2411.	1.1	7
76	Variable-coefficient discrete tanh method and its application to ()-dimensional Toda equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2905-2910.	2.1	6
77	Fan sub-equation method for Wick-type stochastic partial differential equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 4180-4187.	2.1	6
78	Bilinearization and new multi-soliton solutions of mKdV hierarchy with time-dependent coefficients. Open Physics, 2016, 14, 69-75.	1.7	6
79	Lax Integrability and Soliton Solutions for a Nonisospectral Integrodifferential System. Complexity, 2017, 2017, 1-10.	1.6	6
80	On a generalized Ablowitz-Kaup-Newell-Segur hierarchy in inhomogeneities of media: soliton solutions and wave propagation influenced from coefficient functions and scattering data. Waves in Random and Complex Media, 2018, 28, 435-452.	2.7	6
81	Bilinearization and new soliton solutions of Whitham-Broer-Kaup equations with time-dependent coefficients. Journal of Nonlinear Science and Applications, 2017, 10, 2324-2339.	1.0	6
82	Painleve analysis for a forced Korteweg-de Vries equation arisen in fluid dynamics of internal solitary waves. Thermal Science, 2015, 19, 1223-1226.	1.1	6
83	Variable separation for time fractional advection-dispersion equation with initial and boundary conditions. Thermal Science, 2016, 20, 789-792.	1.1	6
84	Analytical treatment on a new generalized Ablowitz-Kaup-Newell-Segur hierarchy of thermal and fluid equations. Thermal Science, 2017, 21, 1607-1612.	1.1	6
85	Exp-function method for Klein-Gordon equation with quadratic nonlinearity. Journal of Physics: Conference Series, 2008, 96, 012002.	0.4	5
86	The Exp-function Method for the Riccati Equation and Exact Solutions of Dispersive Long Wave Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2008, 63, 663-670.	1.5	5
87	Exact solutions of Wick-type stochastic Korteweg-de Vries equation. Canadian Journal of Physics, 2012, 90, 181-186.	1.1	5
88	A Novel Approach to a Time-Dependent-Coefficient WBK System: Doubly Periodic Waves and Singular Nonlinear Dynamics. Complexity, 2018, 2018, 1-14.	1.6	5
89	Rational Waves and Complex Dynamics: Analytical Insights into a Generalized Nonlinear Schrödinger Equation with Distributed Coefficients. Complexity, 2019, 2019, 1-17.	1.6	5
90	Fractional isospectral and non-isospectral AKNS hierarchies and their analytic methods for N-fractal solutions with Mittag-Leffler functions. Advances in Difference Equations, 2021, 2021, .	3.5	5

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91	A Toda lattice hierarchy with variable coefficients and its multi-wave solutions. Thermal Science, 2014, 18, 1563-1566.	1.1	5
92	New multi-soliton solutions of Whitham-Broer-Kaup shallow-water-wave equations. Thermal Science, 2017, 21, 137-144.	1.1	5
93	Exact solutions with external linear functions for the potential Yu-Toda-Sasa-Fukuyama equation. Thermal Science, 2018, 22, 1621-1628.	1.1	5
94	Differential-Difference Equation Arising in Nanotechnology and its Exact Solutions. Journal of Nano Research, 2013, 23, 113-116.	0.8	4
95	Analytical methods for non-linear fractional Kolmogorov-Petrovskii-Piskunov equation: Soliton solution and operator solution. Thermal Science, 2021, 25, 2161-2168.	1.1	4
96	Inverse scattering transform for a new non-isospectral integrable non-linear AKNS model. Thermal Science, 2017, 21, 153-160.	1.1	4
97	Fractional derivative of inverse matrix and its applications to soliton theory. Thermal Science, 2020, 24, 2597-2604.	1.1	4
98	Kink-Type Solutions of the MKdV Lattice Equation with an Arbitrary Function. Advanced Materials Research, 0, 989-994, 1716-1719.	0.3	3
99	KdV hierarchy with time-dependent coefficients: Lax integrability, bilinear Bäcklund transformation and soliton solutions. Optik, 2017, 142, 463-469.	2.9	3
100	Analytical insights into three models: Exact solutions and nonlinear vibrations. Journal of Low Frequency Noise Vibration and Active Control, 2019, 38, 901-913.	2.9	3
101	Derivation and soliton dynamics of a new non-isospectral and variable-coefficient system. Thermal Science, 2019, 23, 639-646.	1.1	3
102	Painlevé Test and Exact Solutions for (1 + 1)-Dimensional Generalized Broer-Kaup Equations. Mathematics, 2022, 10, 486.	2.2	3
103	Analytical Method for Generalized Nonlinear Schrödinger Equation with Time-Varying Coefficients: Lax Representation, Riemann-Hilbert Problem Solutions. Mathematics, 2022, 10, 1043.	2.2	3
104	Variational iteration method for two fractional systems with boundary conditions. Thermal Science, 2022, 26, 2653-2661.	1.1	3
105	Explicit and Exact Nontravelling Wave Solutions of Konopelchenko-Dubrovsy Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2007, 62, 689-697.	1.5	2
106	Integrability, exact solutions and nonlinear dynamics of a nonisospectral integral-differential system. Open Physics, 2019, 17, 299-306.	1.7	2
107	Fractional Rogue Waves with Translational Coordination, Steep Crest, and Modified Asymmetry. Complexity, 2021, 2021, 1-14.	1.6	2
108	A (2+1)-Dimensional Nonlinear Differential- Difference Equation Arising in Nanotechnology and Its Exact Solutions. Advanced Science Letters, 2012, 10, 693-695.	0.2	2

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109	Inverse scattering transform for a supersymmetric Korteweg-de Vries equation. Thermal Science, 2019, 23, 677-684.	1.1	2
110	Darboux transform and conservation laws of new differential-difference equations. Thermal Science, 2020, 24, 2519-2527.	1.1	2
111	Variable-coefficient auxiliary equation method for exact solutions of non-linear evolution equations. International Journal of Computer Mathematics, 2010, 87, 885-899.	1.8	1
112	A New Variable-Coefficient AKNS Hierarchy and its Exact Solutions via Inverse Scattering transform. , 2016, , .		1
113	Infinite many conservation laws of discrete system associated with a $3\tilde{A}-3$ matrix spectral problem. Thermal Science, 2017, 21, 1613-1619.	1.1	1
114	Extending operator method to local fractional evolution equations in fluids. Thermal Science, 2019, 23, 3759-3766.	1.1	1
115	Exact Solutions of Nonlinear Equations in Mathematical Physics via Negative Power Expansion Method. Journal of Mathematical Physics, Analysis, Geometry, 2021, 17, 369-387.	0.1	1
116	A Generalized Auxiliary Equation Method for the Quadratic Nonlinear KG Equation. Applied Mechanics and Materials, 0, 394, 571-576.	0.2	0
117	Equivalent Integral Equations of the Static Schrödinger Equation by Variation of Constants Method. Advanced Materials Research, 0, 989-994, 1712-1715.	0.3	0
118	Analytical Insights into a Generalized Semidiscrete System with Time-Varying Coefficients: Derivation, Exact Solutions, and Nonlinear Soliton Dynamics. Complexity, 2020, 2020, 1-15.	1.6	0
119	Analytical methods for the variable-coefficient KP equation and its wave solutions in weakly dispersive media. GEM - International Journal on Geomathematics, 2021, 12, 1.	1.6	0
120	Riccati Equation Expansion Method with Symbolic Computation for (2+1)-Dimensional KdV Equations. Communications in Computer and Information Science, 2011, , 1-5.	0.5	0
121	Exp-Function Method with Computer Symbolic Computation for Exact Solutions of A Nonlinear Differential Equation. , 0, , .		0
122	A System of Nonlinear Differential-Difference Equations with Variable Coefficients and Its Reductions. , 0, , .		0
123	Fan Sub-Equation method with Improved Algorithms for Travelling Wave Solutions of Jimbo-Miwa Equation. , 0, , .		0
124	Symbolic Computation of Exact Solutions of Two Nonlinear Lattice Equations. , 0, , .		0
125	Computer Applications to Exact solutions of AKNS Hierarchy with Variable Coefficients. , 2015, , .		0
126	New Periodic Wave Solutions for MNW Hierarchy with the Aid of Computerized Symbolic Computation. , 2016, , .		0

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127	Exp-Function Method with Computerized Symbolic Computation for New Exact Solution of Burger's Equation. , 2016, , .		0
128	A New Mathematical Model and its Solvability Test on Computer. , 2016, , .		0