

Tian-Tian Zhang

List of Publications by Year in descending order

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93
papers

3,118
citations

117625

34
h-index

168389

53
g-index

93
all docs

93
docs citations

93
times ranked

592
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of the breathers, rogue waves and solitary waves in the (2+1)-dimensional Ito equation. Applied Mathematics Letters, 2017, 68, 40-47.	2.7	116
2	Breather wave, rogue wave and solitary wave solutions of a coupled nonlinear Schrödinger equation. Applied Mathematics Letters, 2018, 78, 133-140.	2.7	114
3	Long-time asymptotic behavior for the Gerdjikov-Ivanov type of derivative nonlinear Schrödinger equation with time-periodic boundary condition. Proceedings of the American Mathematical Society, 2017, 146, 1713-1729.	0.8	113
4	Characteristics of the breather and rogue waves in a (2+1)-dimensional nonlinear Schrödinger equation. Proceedings of the American Mathematical Society, 2018, 146, 3353-3365.	0.8	113
5	Rogue waves, homoclinic breather waves and soliton waves for the <math display="block">B\text{-type Kadomtsev\textasciitilde{Petviashvili} equation. Applied Mathematics Letters, 2017, 65, 90-97. <td>2.7</td> <td>94</td>	2.7	94
6	Characteristics of solitary wave, homoclinic breather wave and rogue wave solutions in a (2+1)-dimensional generalized breaking soliton equation. Computers and Mathematics With Applications, 2018, 76, 179-186.	2.7	94
7	Riemann\textasciitilde{Hilbert method and multi-soliton solutions for three-component coupled nonlinear Schrödinger equations. Journal of Geometry and Physics, 2019, 146, 103508.	1.4	92
8	Characteristics of the solitary waves and rogue waves with interaction phenomena in a generalized $Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4$ Kadomtsev\textasciitilde{Petviashvili equation. Applied Mathematics Letters, 2017, 72, 58-64.	2.7	90
9	On periodic wave solutions with asymptotic behaviors to a (3+1)-dimensional generalized B-type Kadomtsev\textasciitilde{Petviashvili equation in fluid dynamics. Computers and Mathematics With Applications, 2016, 72, 2486-2504.	2.7	88
10	Bäcklund transformation, infinite conservation laws and periodic wave solutions to a generalized (2+1)-dimensional Boussinesq equation. Nonlinear Analysis: Real World Applications, 2016, 31, 388-408.	1.7	85
11	On integrability and quasi-periodic wave solutions to a (3+1)-dimensional generalized KdV-like model equation. Applied Mathematics and Computation, 2016, 283, 216-233.	2.2	75
12	On quasi-periodic waves and rogue waves to the (4+1)-dimensional nonlinear Fokas equation. Journal of Mathematical Physics, 2018, 59, .	1.1	75
13	On Lie symmetries, optimal systems and explicit solutions to the Kudryashov\textasciitilde{Sinelschikov equation. Applied Mathematics and Computation, 2016, 275, 345-352.	2.2	71
14	Rogue waves, bright\textasciitilde{dark solitons and traveling wave solutions of the <math display="block">generalized Kadomtsev\textasciitilde{Petviashvili} equation. Computers and Mathematics With Applications, 2018, 75, 4221-4231. <td>2.7</td> <td>71</td>	2.7	71
15	Bäcklund transformation, infinite conservation laws and periodic wave solutions of a generalized (3+1)-dimensional nonlinear wave in liquid with gas bubbles. Nonlinear Dynamics, 2016, 83, 1199-1215.	5.2	67
16	Analysis on lump, lumpoff and rogue waves with predictability to the (2\textasciitilde{+}1)-dimensional B-type Kadomtsev\textasciitilde{Petviashvili equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2701-2708.	2.1	65
17	Characteristics of the breathers, rogue waves and solitary waves in a generalized (2+1)-dimensional Boussinesq equation. Europhysics Letters, 2016, 115, 10002.	2.0	64
18	Dynamics of the breathers and rogue waves in the higher-order nonlinear Schrödinger equation. Applied Mathematics Letters, 2018, 86, 298-304.	2.7	64

#	ARTICLE	IF	CITATIONS
19	On breather waves, rogue waves and solitary waves to a generalized (2+1)-dimensional Camassa-Holm-Kadomtsev-Petviashvili equation. Communications in Nonlinear Science and Numerical Simulation, 2018, 62, 378-385.	3.3	63
20	Dynamics of breather waves and higher-order rogue waves in a coupled nonlinear Schrödinger equation. Europhysics Letters, 2018, 123, 50005.	2.0	61
21	Characteristics of rogue waves on a periodic background for the Hirota equation. Wave Motion, 2020, 93, 102454.	2.0	60
22	Dynamics of the soliton waves, breather waves, and rogue waves to the cylindrical Kadomtsev-Petviashvili equation in pair-ion-electron plasma. Physics of Fluids, 2019, 31, .	4.0	56
23	Breather waves and rational solutions in the (3+1)-dimensional Boiti-Leon-Manna-Pempinelli equation. Computers and Mathematics With Applications, 2019, 77, 715-723.	2.7	56
24	Quasi-periodic Waves and Solitary Waves to a Generalized KdV-Caudrey-Dodd-Gibbon Equation from Fluid Dynamics. Taiwanese Journal of Mathematics, 2016, 20, .	0.4	51
25	Lie symmetries and nonlocally related systems of the continuous and discrete dispersive long waves system by geometric approach. Journal of Nonlinear Mathematical Physics, 2015, 22, 180.	1.3	50
26	Rogue Waves and Their Dynamics on Bright-Dark Soliton Background of the Coupled Higher Order Nonlinear Schrödinger Equation. Journal of the Physical Society of Japan, 2019, 88, 074004.	1.6	50
27	Rational and semi-rational solutions of a nonlocal (2+1)-dimensional nonlinear Schrödinger equation. Mathematical Methods in the Applied Sciences, 2019, 42, 6865-6877.	2.3	47
28	On symmetry-preserving difference scheme to a generalized Benjamin equation and third-order Burgers equation. Applied Mathematics Letters, 2015, 50, 146-152.	2.7	45
29	Bilinear formalism, lump solution, lumpoff and instanton/rogue wave solution of a (3+1)-dimensional B-type Kadomtsev-Petviashvili equation. Nonlinear Dynamics, 2019, 95, 3005-3017.	5.2	43
30	Lie symmetry analysis, conservation laws and exact solutions of the generalized time fractional Burgers equation. Europhysics Letters, 2016, 114, 20003.	2.0	40
31	Quasiperiodic waves, solitary waves and asymptotic properties for a generalized (3+1)-dimensional variable-coefficient B-type Kadomtsev-Petviashvili equation. Nonlinear Dynamics, 2017, 88, 2265-2279.	5.2	40
32	Modulation instability analysis and soliton solutions of an integrable coupled nonlinear Schrödinger system. Nonlinear Dynamics, 2018, 94, 2749-2761.	5.2	40
33	Lie Symmetry Analysis, Analytical Solutions, and Conservation Laws of the Generalised Whitham-Broer-Kaup-Like Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 269-279.	1.5	39
34	Nonlocal Symmetries, Conservation Laws and Interaction Solutions of the Generalised Dispersive Modified Benjamin-Bona-Mahony Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 399-405.	1.5	38
35	Nonlocal Symmetries and Consistent Riccati Expansions of the (2+1)-Dimensional Dispersive Long Wave Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 425-431.	1.5	34
36	Characteristics of the solitary waves and lump waves with interaction phenomena in a (2+1)-dimensional generalized Caudrey-Dodd-Gibbon-Kotera-Sawada equation. Nonlinear Dynamics, 2018, 93, 1841-1851.	5.2	34

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37	The N -coupled higher-order nonlinear Schrödinger equation: Riemann-Hilbert problem and multi-soliton solutions. <i>Mathematical Methods in the Applied Sciences</i> , 2020, 43, 2458-2472.	2.3	31
38	Bäcklund Transformations, Nonlocal Symmetries and Soliton-Cnoidal Interaction Solutions of the $(2+1)$ -Dimensional Boussinesq Equation. <i>Bulletin of the Malaysian Mathematical Sciences Society</i> , 2020, 43, 141-155.	0.9	30
39	Integrability, soliton solutions and modulation instability analysis of a nonlinear Heisenberg ferromagnetic spin chain equation. <i>Computers and Mathematics With Applications</i> , 2019, 77, 770-778.	2.7	29
40	Nonlocal symmetries, conservation laws and interaction solutions for the classical Boussinesq-Burgers equation. <i>Nonlinear Dynamics</i> , 2019, 95, 273-291.	5.2	29
41	Nonlocal Symmetries, Consistent Riccati Expansion, and Analytical Solutions of the Variant Boussinesq System. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2017, 72, 655-663.	1.5	28
42	A symmetry-preserving difference scheme and analytical solutions of a generalized higher-order beam equation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	2.1	27
43	On periodic wave solutions and asymptotic behaviors to a generalized Konopelchenko-Dubrovsky-Kaup-Kupershmidt equation. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	26
44	Lump-type solutions and interaction solutions in the $(3+1)$ -dimensional potential Yu-Toda-Sasa-Fukuyama equation. <i>Analysis and Mathematical Physics</i> , 2019, 9, 1511-1523.	1.3	26
45	Lie symmetry analysis, conservation laws and explicit solutions for the time fractional Rosenau-Haynam equation. <i>Waves in Random and Complex Media</i> , 2017, 27, 308-324.	2.7	25
46	Lie symmetries, conservation laws and analytical solutions for two-component integrable equations. <i>Chinese Journal of Physics</i> , 2017, 55, 996-1010.	3.9	24
47	On Lie symmetry analysis, conservation laws and solitary waves to a longitudinal wave motion equation. <i>Applied Mathematics Letters</i> , 2019, 98, 199-205.	2.7	23
48	On quasiperiodic wave solutions and integrability to a generalized $(2+1)$ -dimensional Korteweg-de Vries equation. <i>Nonlinear Dynamics</i> , 2015, 82, 2031-2049.	5.2	22
49	Lie Symmetry Analysis, Conservation Laws and Exact Power Series Solutions for Time-Fractional Fordy-Gibbons Equation. <i>Communications in Theoretical Physics</i> , 2016, 66, 321-329.	2.5	22
50	On Bell polynomials approach to the integrability of a $(3+1)$ -dimensional generalized Kadomtsev-Petviashvili equation. <i>Modern Physics Letters B</i> , 2015, 29, 1550051.	1.9	21
51	Lie symmetry analysis, conservation laws and analytic solutions of the time fractional Kolmogorov-Petrovskii-Piskunov equation. <i>Chinese Journal of Physics</i> , 2018, 56, 1734-1742.	3.9	20
52	Solitons to rogue waves transition, lump solutions and interaction solutions for the $(3+1)$ -dimensional generalized B-type Kadomtsev-Petviashvili equation in fluid dynamics. <i>International Journal of Computer Mathematics</i> , 2019, 96, 1839-1848.	1.8	20
53	Lie symmetry analysis, conservation laws and analytical solutions of a time-fractional generalized KdV-type equation*. <i>Journal of Nonlinear Mathematical Physics</i> , 2017, 24, 516.	1.3	19
54	Quasi-periodic wave solutions, soliton solutions, and integrability to a $(2+1)$ -dimensional generalized Bogoyavlensky-Konopelchenko equation. <i>Waves in Random and Complex Media</i> , 2016, 26, 444-457.	2.7	18

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55	Quasi-periodic wave solutions with asymptotic analysis to the Sawada-Kotera-Kadomtsev-Petviashvili equation. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	17
56	Initial Value Problem for the Pair Transition Coupled Nonlinear Schrödinger Equations via the Riemann-Hilbert Method. <i>Complex Analysis and Operator Theory</i> , 2020, 14, 1.	0.6	17
57	Solitary wave, breather wave and rogue wave solutions of an inhomogeneous fifth-order nonlinear Schrödinger equation from Heisenberg ferromagnetism. <i>Rocky Mountain Journal of Mathematics</i> , 2019, 49, .	0.4	16
58	Analytic solutions and Darboux transformation to a new Hamiltonian lattice hierarchy. <i>Modern Physics Letters B</i> , 2016, 30, 1650100.	1.9	15
59	On the breather waves, rogue waves and solitary waves to a generalized (2+1)-dimensional Caudrey-Dodd-Gibbon-Kotera-Sawada equation. <i>Filomat</i> , 2018, 32, 4959-4969.	0.5	15
60	Lie symmetry analysis, conservation laws, solitary and periodic waves for a coupled Burger equation. <i>Superlattices and Microstructures</i> , 2017, 101, 415-428.	3.1	13
61	Lump solutions and interaction phenomena of the (3+1)-dimensional nonlinear evolution equations. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 3417-3436.	2.8	13
62	Dynamics of kink solitary waves and lump waves with interaction phenomena in a generalized (3+1)-dimensional Kadomtsev-Petviashvili-Boussinesq equation. <i>International Journal of Computer Mathematics</i> , 2020, 97, 2178-2190.	1.8	13
63	On Lie symmetries, exact solutions and integrability to the KdV-Sawada-Kotera-Ramani equation. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	12
64	Optical solitons, complexitons and power series solutions of a (2+1)-dimensional nonlinear Schrödinger equation. <i>Modern Physics Letters B</i> , 2018, 32, 1850336.	1.9	12
65	General lump solutions, lumpoff solutions, and rogue wave solutions with predictability for the (2+1)-dimensional Korteweg-de Vries equation. <i>Computational and Applied Mathematics</i> , 2019, 38, 1.	2.2	12
66	Optical solitons, complexitons, Gaussian soliton and power series solutions of a generalized Hirota equation. <i>Modern Physics Letters B</i> , 2018, 32, 1850143.	1.9	11
67	Rogue waves, homoclinic breather waves and soliton waves for a (3+1)-dimensional non-integrable KdV-type equation. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2019, 29, 763-772.	2.8	11
68	Stability analysis solutions, optical solitons, Gaussian solutions and traveling wave solutions of the nonlinear Schrödinger governing equation. <i>Optik</i> , 2018, 158, 391-398.	2.9	10
69	Stability analysis, solitary wave and explicit power series solutions of a (2 + 1)-dimensional nonlinear Schrödinger equation in a multicomponent plasma. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 1732-1748.	2.8	10
70	Lie symmetry analysis, conservation laws and analytical solutions for the constant astigmatism equation. <i>Chinese Journal of Physics</i> , 2017, 55, 1938-1952.	3.9	8
71	Lie symmetry analysis, conservation laws and analytical solutions for chiral nonlinear Schrödinger equation in (2 + 1)-dimensions. <i>Nonlinear Analysis: Modelling and Control</i> , 2020, 25, .	1.6	7
72	Riemann-Hilbert approach and multi-soliton solutions of a variable-coefficient fifth-order nonlinear Schrödinger equation with N distinct arbitrary-order poles. <i>Modern Physics Letters B</i> , 2021, 35, 2150194.	1.9	6

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73	Characteristics of the lump, lumpoff and rouge wave solutions in a (3+1)-dimensional generalized potential Yuâ€“Todaâ€“Sasaâ€“Fukuyama equation. Modern Physics Letters B, 2019, 33, 1950291.	1.9	5
74	Stability analysis, optical solitons and complexitons of the two-dimensional complex Ginzburg-Landau equation. Journal of Electromagnetic Waves and Applications, 2019, 33, 1224-1238.	1.6	5
75	Homoclinic breather waves, rogue waves and solitary waves for a (3+1)-dimensional generalized Kadomtsevâ€“Petviashvili equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 553-568.	2.8	5
76	Dynamics of lump solutions, lump-kink solutions and periodic lump solutions in a (3+1)-dimensional generalized Jimboâ€“Miwa equation. Waves in Random and Complex Media, 2021, 31, 293-304.	2.7	4
77	The symmetry-preserving difference schemes and exact solutions of some high-dimensional differential equations. Applied Mathematics Letters, 2021, 112, 106813.	2.7	4
78	General high-order breather, lump, and semi-rational solutions to the (2+1)-dimensional generalized Bogoyavlenskyâ€“Konopelchenko equation. Modern Physics Letters B, 2021, 35, 2150057.	1.9	4
79	Vector breather waves and higher-order rouge waves to the coupled higher-order nonlinear SchrÃ¶dinger equations. International Journal of Computer Mathematics, 2021, 98, 2504-2513.	1.8	4
80	Inverse scattering transform for the integrable nonlocal Lakshmanan-Porsezian-Daniel equation. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 4941.	0.9	4
81	Lie symmetry analysis and different types of solutions to a generalized bidirectional sixth-order Sawadaâ€“Kotera equation. Chinese Journal of Physics, 2017, 55, 2236-2248.	3.9	3
82	Characteristics of the breather waves, lump waves and semi-rational solutions in a generalized (2+1)-dimensional asymmetrical Nizhnikâ€“Novikovâ€“Veselov equation. Modern Physics Letters B, 2019, 33, 1950350.	1.9	3
83	Modulation instability analysis of the generalized nonlinear SchrÃ¶dinger equation and its bright, dark and complexiton soliton solutions. Optik, 2019, 183, 381-388.	2.9	3
84	Stability analysis, soliton solutions and Gaussian solitons of the generalized nonlinear SchrÃ¶dinger equation with higher order terms. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 878-889.	2.8	3
85	The solitary waves, quasi-periodic waves and integrability of a generalized fifth-order Korteweg-de Vries equation. Waves in Random and Complex Media, 2019, 29, 247-263.	2.7	3
86	THE BREATHER WAVE SOLUTIONS, M-LUMP SOLUTIONS AND SEMI-RATIONAL SOLUTIONS TO A (2+1)-DIMENSIONAL GENERALIZED KORTEWEG-DE VRIES EQUATION. Journal of Applied Analysis and Computation, 2020, 10, 118-130.	0.5	3
87	Nonlocal symmetry and consistent Riccati expansion integrability of the (1+1)-dimensional integrable nonlinear dispersive-wave system. Waves in Random and Complex Media, 2017, 27, 571-586.	2.7	2
88	Bright soliton solutions, power series solutions and travelling wave solutions of a (3+1)-dimensional modified Kortewegâ€“de Vriesâ€“Kadomtsevâ€“Petviashvili equation. Modern Physics Letters B, 2018, 32, 1850082.	1.9	2
89	Stability analysis solutions and optical solitons in extended nonlinear SchrÃ¶dinger equation with higher-order odd and even terms. Superlattices and Microstructures, 2018, 113, 726-736.	3.1	2
90	Lie symmetry analysis, conservation laws and analytical solutions for a generalized time-fractional modified KdV equation. Waves in Random and Complex Media, 2019, 29, 456-476.	2.7	2

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91	The solitary waves, breather waves and rogue waves for a generalized nonlinear equation. Modern Physics Letters B, 2019, 33, 1950353.	1.9	1
92	Quasi-periodic wave solutions and asymptotic properties to an extended Korteweg–de Vries equation from fluid dynamics. Modern Physics Letters B, 2016, 30, 1550271.	1.9	0
93	Bright-dark solitary waves, complexitons, Gaussian solitons, and traveling wave solitons of the second-order non-linear Schrödinger equation with spatial and temporal dispersion. Journal of Electromagnetic Waves and Applications, 2018, 32, 504-515.	1.6	0