Tian-Tian Zhang

List of Publications by Year
in descending order

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	Inverse scattering transform for the integrable nonlocal Lakshmanan-Porsezian-Daniel equation. Discrete and Continuous Dynamical Systems - Series B, 2022, 27, 4941.	0.9	4
2	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
3	The symmetry-preserving difference schemes and exact solutions of some high-dimensional differential equations. Applied Mathematics Letters, 2021, 112, 106813.	2.7	4
4	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
5	Riemannâ€“Hilbert approach and multi-soliton solutions of a variable-coefficient fifth-order nonlinear SchrÃ¶dinger equation with N distinct arbitrary-order poles. Modern Physics Letters B, 2021, 35, 2150194.	1.9	6
6	Stability analysis, solitary wave and explicit power series solutions of a (2 + 1)-dimensional nonlinear SchrÃ¶dinger equation in a multicomponent plasma. International Journal of Numerical Methods for Heat and Fluid Flow, 2021, 31, 1732-1748.	2.8	10
7	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
8	A symmetry-preserving difference scheme and analytical solutions of a generalized higher-order beam equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	2.1	27
9	BÃcklund Transformations, Nonlocal Symmetries and Solitonâ€“Cnoidal Interaction Solutions of the (2Â+Â1)-Dimensional Boussinesq Equation. Bulletin of the Malaysian Mathematical Sciences Society, 2020, 43, 141-155.	0.9	30
10	Dynamics of kink solitary waves and lump waves with interaction phenomena in a generalized (3+1)-dimensional Kadomtsevâ€“Petviashviliâ€“Boussinesq equation. International Journal of Computer Mathematics, 2020, 97, 2178-2190.	1.8	13
11	Characteristics of rogue waves on a periodic background for the Hirota equation. Wave Motion, 2020, 93, 102454.	2.0	60
12	The Nâ€coupled higherâ€order nonlinear SchrÃ¶dinger equation: Riemannâ€Hilbert problem and multiâ€soliton solutions. Mathematical Methods in the Applied Sciences, 2020, 43, 2458-2472.	2.3	31
13	Initial Value Problem for the Pair Transition Coupled Nonlinear SchrÃ¶dinger Equations via the Riemannâ€“Hilbert Method. Complex Analysis and Operator Theory, 2020, 14, 1.	0.6	17
14	Lie symmetry analysis, conservation laws and analytical solutions for chiral nonlinear SchrÃ¶dinger equation in (2 + 1)-dimensions. Nonlinear Analysis: Modelling and Control, 2020, 25, .	1.6	7
15	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
16	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
17	Rational and semiâ€rational solutions of a nonlocal (2Â+Â1)â€dimensional nonlinear SchrÃ¶dinger equation. Mathematical Methods in the Applied Sciences, 2019, 42, 6865-6877.	2.3	47
18	Riemannâ€“Hilbert method and multi-soliton solutions for three-component coupled nonlinear SchrÃ¶dinger equations. Journal of Geometry and Physics, 2019, 146, 103508.	1.4	92

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19	Dynamics of the soliton waves, breather waves, and rogue waves to the cylindrical Kadomtsev-Petviashvili equation in pair-ionâ€“electron plasma. Physics of Fluids, 2019, 31, .	4.0	56
20	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
21	The solitary waves, breather waves and rogue waves for a generalized nonlinear equation. Modern Physics Letters B, 2019, 33, 1950353.	1.9	1
22	General lump solutions, lumpoff solutions, and rogue wave solutions with predictability for the (2+1)-dimensional Korteweg-de Vries equation. Computational and Applied Mathematics, 2019, 38, 1.	2.2	12
23	On Lie symmetry analysis, conservation laws and solitary waves to a longitudinal wave motion equation. Applied Mathematics Letters, 2019, 98, 199-205.	2.7	23
24	Rogue Waves and Their Dynamics on Bright-Dark Soliton Background of the Coupled Higher Order Nonlinear SchrÃ¶dinger Equation. Journal of the Physical Society of Japan, 2019, 88, 074004.	1.6	50
25	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
26	Solitary wave, breather wave and rogue wave solutions of an inhomogeneous fifth-order nonlinear Schrodinger equation from Heisenberg ferromagnetism. Rocky Mountain Journal of Mathematics, 2019, 49, .	0.4	16
27	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
28	Lump solutions and interaction phenomena of the (3â€‰+â€‰1)-dimensional nonlinear evolution equations. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 3417-3436.	2.8	13
29	Stability analysis, solition 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
30	Bilinear formalism, lump solution, lumpoff and instanton/rogue wave solution of a (3+1)-dimensional B-type Kadomtsevâ€“Petviashvili equation. Nonlinear Dynamics, 2019, 95, 3005-3017.	5.2	43
31	Integrability, soliton solutions and modulation instability analysis of a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" id="d1e526" altimg="si1.gif"><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn><mml:mo> nonlinear Heisenberg ferromagnetic spin chain equation. Computers and Mathematics With Applications, 2019, 77, 770-778.	2.7	29
32	Lump-type solutions and interaction solutions in the (3 + 1)-dimensional potential Yuâ€“Todaâ€“Sasaâ€“Fukuyama equation. Analysis and Mathematical Physics, 2019, 9, 1511-1523.	1.3	26
33	Breather waves and rational solutions in the (3+1)-dimensional Boitiâ€“Leonâ€“Mannaâ€“Pempinelli equation. Computers and Mathematics With Applications, 2019, 77, 715-723.	2.7	56
34	Solitons to rogue waves transition, lump solutions and interaction solutions for the (3+1)-dimensional generalized B-type Kadomtsevâ€“Petviashvili equation in fluid dynamics. International Journal of Computer Mathematics, 2019, 96, 1839-1848.	1.8	20
35	Homoclinic breather waves, rogue waves and solitary waves for a (3â€‰+â€‰1)-dimensional generalized Kadomtsevâ€“Petviashvili equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 553-568.	2.8	5
36	Rogue waves, homoclinic breather waves and soliton waves for a (3â€‰+â€‰1)-dimensional non-integrable KdV-type equation. International Journal of Numerical Methods for Heat and Fluid Flow, 2019, 29, 763-772.	2.8	11

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37	Nonlocal symmetries, conservation laws and interaction solutions for the classical Boussinesqâ€“Burgers equation. Nonlinear Dynamics, 2019, 95, 273-291.	5.2	29
38	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
39	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
40	Optical solitons, complexitons, Gaussian soliton and power series solutions of a generalized Hirota equation. Modern Physics Letters B, 2018, 32, 1850143.	1.9	11
41	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
42	Nonlocal Symmetries, Conservation Laws and Interaction Solutions of the Generalised Dispersive Modified Benjaminâ€“Bonaâ€“Mahony Equation. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 399-405.	1.5	38
43	Stability analysis solutions, optical solitons, Gaussian solutions and traveling wave solutions of the nonlinear SchrÃ¶dinger governing equation. Optik, 2018, 158, 391-398.	2.9	10
44	Lie symmetry analysis, conservation laws and analytic solutions of the time fractional Kolmogorovâ€“Petrovskiiâ€“Piskunov equation. Chinese Journal of Physics, 2018, 56, 1734-1742.	3.9	20
45	Characteristics of the solitary waves and lump waves with interaction phenomena in a (2Â+Â1)-dimensional generalized Caudreyâ€“Doddâ€“Gibbonâ€“Koteraâ€“Sawada equation. Nonlinear Dynamics, 2018, 93, 1841-1851.	5.2	34
46	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
47	Rogue waves, brightâ€“dark solitons and traveling wave solutions of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml81" display="inline" overflow="scroll" altimg="si81.gif"><mml:mrow><mml:mo>(</mml:mo><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn><mml:mo>)</mml:mo></mml:mrow></mml:math>-dimensional generalized Kadomtsevâ€“Petviashvili equation. Computers and Mathematics With Applications, 2018, 75, 4221-4231.	2.7	71
48	On breather waves, rogue waves and solitary waves to a generalized (2+1)-dimensional Camassaâ€“Holmâ€“Kadomtsevâ€“Petviashvili equation. Communications in Nonlinear Science and Numerical Simulation, 2018, 62, 378-385.	3.3	63
49	Breather wave, rogue wave and solitary wave solutions of a coupled nonlinear SchrÃ¶dinger equation. Applied Mathematics Letters, 2018, 78, 133-140.	2.7	114
50	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
51	Bright-dark solitary waves, complexitons, Guassian solitons, and traveling wave solitons of the second-order non-linear SchrÃ¶dinger equation with spatial and temporal dispersion. Journal of Electromagnetic Waves and Applications, 2018, 32, 504-515.	1.6	0
52	Dynamics of breather waves and higher-order rogue waves in a coupled nonlinear SchrÃ¶dinger equation. Europhysics Letters, 2018, 123, 50005.	2.0	61
53	Optical solitons, complexitons and power series solutions of a (2+1)-dimensional nonlinear SchrÃ¶dinger equation. Modern Physics Letters B, 2018, 32, 1850336.	1.9	12
54	Characteristics of the breather and rogue waves in a (2+1)-dimensional nonlinear SchrÃ¶dinger equation. Proceedings of the American Mathematical Society, 2018, 146, 3353-3365.	0.8	113

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55	Analysis on lump, lumpoff and rogue waves with predictability to the (2â€¯+â€¯1)-dimensional B-type Kadomtsevâ€“Petviashvili equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2701-2708.	2.1	65
56	Dynamics of the breathers and rogue waves in the higher-order nonlinear SchrÃ¶dinger equation. Applied Mathematics Letters, 2018, 86, 298-304.	2.7	64
57	On quasi-periodic waves and rogue waves to the (4+1)-dimensional nonlinear Fokas equation. Journal of Mathematical Physics, 2018, 59, .	1.1	75
58	Modulation instability analysis and soliton solutions of an integrable coupled nonlinear SchrÃ¶dinger system. Nonlinear Dynamics, 2018, 94, 2749-2761.	5.2	40
59	On the breather waves, rogue waves and solitary waves to a generalized (2+1)-dimensional Caudrey-Dodd-Gibbon-Kotera-Sawada equation. Filomat, 2018, 32, 4959-4969.	0.5	15
60	Lie Symmetry Analysis, Analytical Solutions, and Conservation Laws of the Generalised Whithamâ€“Broerâ€“Kaupâ€“Like Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 269-279.	1.5	39
61	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
62	Quasiperiodic waves, solitary waves and asymptotic properties for a generalized (3Â+Â1)-dimensional variable-coefficient B-type Kadomtsevâ€“Petviashvili equation. Nonlinear Dynamics, 2017, 88, 2265-2279.	5.2	40
63	Characteristics of the solitary waves and rogue waves with interaction phenomena in a generalized (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml22" display="inline") Tj ETQq1 1 0.784314 rgBT /Overlock 1 Kadomtsevâ€“Petviashvili equation. Applied Mathematics Letters, 2017, 72, 58-64.	2.7	90
64	Nonlocal Symmetries, Consistent Riccati Expansion, and Analytical Solutions of the Variant Boussinesq System. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2017, 72, 655-663.	1.5	28
65	Lie symmetries, conservation laws and analytical solutions for two-component integrable equations. Chinese Journal of Physics, 2017, 55, 996-1010.	3.9	24
66	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
67	Lie symmetry analysis, conservation laws, solitary and periodic waves for a coupled Burger equation. Superlattices and Microstructures, 2017, 101, 415-428.	3.1	13
68	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
69	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
70	Lie symmetry analysis, conservation laws and analytical solutions for the constant astigmatism equation. Chinese Journal of Physics, 2017, 55, 1938-1952.	3.9	8
71	Lie symmetry analysis, conservation laws and analytical solutions of a time-fractional generalized KdV-type equation*. Journal of Nonlinear Mathematical Physics, 2017, 24, 516.	1.3	19
72	Rogue waves, homoclinic breather waves and soliton waves for the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml18" display="inline" overflow="scroll" altimg="si18.gif"><mml:mrow><mml:mo>(</mml:mo><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn><mml:mo> B-type Kadomtsevâ€“Petviashvili equation. Applied Mathematics Letters, 2017, 65, 90-97.	2.7	94

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73	Lie symmetry analysis, conservation laws and explicit solutions for the time fractional Rosenau-Haynam equation. Waves in Random and Complex Media, 2017, 27, 308-324.	2.7	25
74	Long-time asymptotic behavior for the Gerdjikov-Ivanov type of derivative nonlinear SchrÃ¶dinger equation with time-periodic boundary condition. Proceedings of the American Mathematical Society, 2017, 146, 1713-1729.	0.8	113
75	Lie symmetry analysis, conservation laws and exact solutions of the generalized time fractional Burgers equation. Europhysics Letters, 2016, 114, 20003.	2.0	40
76	Analytic solutions and Darboux transformation to a new Hamiltonian lattice hierarchy. Modern Physics Letters B, 2016, 30, 1650100.	1.9	15
77	Quasi-periodic wave solutions, soliton solutions, and integrability to a (2+1)-dimensional generalized Bogoyavlensky-Konopelchenko equation. Waves in Random and Complex Media, 2016, 26, 444-457.	2.7	18
78	On Lie symmetries, exact solutions and integrability to the KdV-Sawada-Kotera-Ramani equation. European Physical Journal Plus, 2016, 131, 1.	2.6	12
79	BÃcklund 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
80	On periodic wave solutions with asymptotic behaviors to a (3+1)-dimensional generalized B-type Kadomtsevâ€“Petviashvili equation in fluid dynamics. Computers and Mathematics With Applications, 2016, 72, 2486-2504.	2.7	88
81	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
82	Lie Symmetry Analysis, Conservation Laws and Exact Power Series Solutions for Time-Fractional Fordyâ€“Gibbons Equation. Communications in Theoretical Physics, 2016, 66, 321-329.	2.5	22
83	On periodic wave solutions and asymptotic behaviors to a generalized Konopelchenko-Dubrovsky-Kaup-Kupershmidt equation. European Physical Journal Plus, 2016, 131, 1.	2.6	26
84	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
85	Quasi-periodic wave solutions and asymptotic properties to an extended Kortewegâ€“de Vries equation from fluid dynamics. Modern Physics Letters B, 2016, 30, 1550271.	1.9	0
86	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
87	On Lie symmetries, optimal systems and explicit solutions to the Kudryashovâ€“Sinelshchikov equation. Applied Mathematics and Computation, 2016, 275, 345-352.	2.2	71
88	BÃcklund 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
89	On Bell polynomials approach to the integrability of a (3+1)-dimensional generalized Kadomtsevâ€“Petviashvili equation. Modern Physics Letters B, 2015, 29, 1550051.	1.9	21
90	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

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91	On quasiperiodic wave solutions and integrability to a generalized $$varvec{(2+1)}$$ (2 + 1) -dimensional Kortewegâ€“de Vries equation. Nonlinear Dynamics, 2015, 82, 2031-2049.	5.2	22
92	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
93	Quasi-periodic wave solutions with asymptotic analysis to the Saweda-Kotera-Kadomtsev-Petviashvili equation. European Physical Journal Plus, 2015, 130, 1.	2.6	17