

Tao Xu

List of Publications by Year in descending order

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papers

1,009
citations

471509

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all docs

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docs citations

36
times ranked

292
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher-order algebraic soliton solutions of the Gerdjikovâ€“Ivanov equation: Asymptotic analysis and emergence of rogue waves. <i>Physica D: Nonlinear Phenomena</i> , 2022, 432, 133128.	2.8	21
2	Ellipticâ€“and hyperbolicâ€“function solutions of the nonlocal reverseâ€“time and reverseâ€“spaceâ€“time nonlinear SchrÃ¶dinger equations. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 10877-10890.	2.3	2
3	Binary Darboux transformation and new soliton solutions of the focusing nonlocal nonlinear SchrÃ¶dinger equation. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 516, 126514.	1.0	4
4	Asymptotic behaviors of mixed-type vector double-pole solutions for the discrete coupled nonlinear SchrÃ¶dinger system. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	3
5	Quantitative analysis on the bifurcations and exact travelling wave solutions of a generalized fourth-order dispersive nonlinear SchrÃ¶dinger equation in Heisenberg spin chain. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110767.	5.1	7
6	Higher-order semirational solutions and W-shaped solitons for the multi-component AB system. <i>Wave Motion</i> , 2021, 106, 102790.	2.0	0
7	Numerical simulation of the soliton solutions for a complex modified Kortewegâ€“de Vries equation by a finite difference method. <i>Communications in Theoretical Physics</i> , 2021, 73, 025005.	2.5	3
8	Rational solutions of the defocusing non-local nonlinear SchrÃ¶dinger equation: asymptotic analysis and soliton interactions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	2.1	7
9	Approximate bright-soliton solution of the higher-order nonlinear SchrÃ¶dinger equation. <i>European Journal of Physics</i> , 2021, 42, 015301.	0.6	1
10	Multi-pole solutions and their asymptotic analysis of the focusing Ablowitzâ€“Ladik equation. <i>Physica Scripta</i> , 2020, 95, 055222.	2.5	17
11	Approximate analytical description for the nonlinear $\{ \mathcal{P} \} \{ \mathcal{T} \}$ -symmetric coupled-mode equations. <i>European Journal of Physics</i> , 2020, 41, 025305.	0.6	0
12	The coupled derivative nonlinear SchrÃ¶dinger equation: conservation laws, modulation instability and semirational solutions. <i>Nonlinear Dynamics</i> , 2020, 100, 2823-2837.	5.2	15
13	Asymptotic Analysis and Soliton Interactions of the Multi-Pole Solutions in the Hirota Equation. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 054004.	1.6	30
14	The homoclinic breather wave solution, rational wave and n-soliton solution to a nonlinear differential equation. <i>International Journal of Nonlinear Sciences and Numerical Simulation</i> , 2020, .	1.0	0
15	Study on the generation mechanism of bright and dark solitary waves and rogue wave for a fourth-order dispersive nonlinear SchrÃ¶dinger equation. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 010502.	0.5	6
16	Higher-order interactional solutions and rogue wave pairs for the coupled Lakshmananâ€“Porsezianâ€“Daniel equations. <i>Nonlinear Dynamics</i> , 2019, 98, 1731-1744.	5.2	24
17	Darboux transformation and soliton solutions of the semi-discrete massive Thirring model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019, 383, 125948.	2.1	19
18	General stationary solutions of the nonlocal nonlinear SchrÃ¶dinger equation and their relevance to the PT-symmetric system. <i>Chaos</i> , 2019, 29, 123124.	2.5	27

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19	Mixed soliton solutions of the defocusing nonlocal nonlinear Schrödinger equation. Physica D: Nonlinear Phenomena, 2019, 390, 47-61.	2.8	66
20	Generation mechanism of rogue waves for the discrete nonlinear Schrödinger equation. Applied Mathematics Letters, 2018, 83, 110-115.	2.7	50
21	Nonsingular localized wave solutions for the nonlocal Davey-Stewartson I equation with zero background. Modern Physics Letters B, 2017, 31, 1750338.	1.9	17
22	Darboux transformation and analytic solutions of the discrete P -symmetric nonlocal nonlinear Schrödinger equation. Applied Mathematics Letters, 2017, 63, 88-94.	2.7	83
23	New Double Wronskian Solutions of the Whitham-Broer-Kaup System: Asymptotic Analysis and Resonant Soliton Interactions. Journal of Nonlinear Mathematical Physics, 2016, 24, 116.	1.3	24
24	Rational Solitons in the Parity-Time-Symmetric Nonlocal Nonlinear Schrödinger Model. Journal of the Physical Society of Japan, 2016, 85, 124001.	1.6	95
25	Dynamical behaviors and soliton solutions of a generalized higher-order nonlinear Schrödinger equation in optical fibers. Nonlinear Dynamics, 2015, 80, 1451-1461.	5.2	52
26	Dark and antidark soliton interactions in the nonlocal nonlinear Schrödinger equation with the self-induced parity-time-symmetric potential. Physical Review E, 2015, 91, 033202.	2.1	214
27	Multi-component Wronskian solution to the Kadomtsev-Petviashvili equation. Computational Mathematics and Mathematical Physics, 2014, 54, 97-113.	0.8	9
28	Soliton and breather solutions of the Sasa-Satsuma equation via the Darboux transformation. Physica Scripta, 2014, 89, 075207.	2.5	52
29	Fully resonant soliton interactions in the Whitham-Broer-Kaup system based on the double Wronskian solutions. Nonlinear Dynamics, 2013, 73, 485-498.	5.2	12
30	Single- and double-hump femtosecond vector solitons in the coupled Sasa-Satsuma system. Physical Review E, 2013, 87, .	2.1	18
31	On the N th Iterated Darboux Transformation and Soliton Solutions of a Coherently-Coupled Nonlinear Schrödinger System. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68a, 261-271.	1.5	10
32	Bright N -soliton solutions in terms of the triple Wronskian for the coupled nonlinear Schrödinger equations in optical fibers. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 245205.	2.1	41
33	An extension of the Wronskian technique for the multicomponent Wronskian solution to the vector nonlinear Schrödinger equation. Journal of Mathematical Physics, 2010, 51, 033504.	1.1	29
34	Darboux transformation and new solutions for the Whitham-Broer-Kaup equations. Physica Scripta, 2008, 78, 065001.	2.5	23
35	New extension of the tanh-function method and application to the Whitham-Broer-Kaup shallow water model with symbolic computation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 369, 458-463.	2.1	28