

Tao Xu

List of Publications by Year in descending order

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papers

1,009
citations

471509

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docs citations

36
times ranked

292
citing authors

#	ARTICLE	IF	CITATIONS
1	Dark and antidark soliton interactions in the nonlocal nonlinear Schrödinger equation with the self-induced parity-time-symmetric potential. <i>Physical Review E</i> , 2015, 91, 033202.	2.1	214
2	Rational Solitons in the Parity-Time-Symmetric Nonlocal Nonlinear Schrödinger Model. <i>Journal of the Physical Society of Japan</i> , 2016, 85, 124001.	1.6	95
3	Darboux transformation and analytic solutions of the discrete $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si29.gif" display="inline" overflow="scroll" \rangle \langle \text{mml:mi mathvariant="script" \rangle P \langle \text{mml:mi \rangle \langle \text{mml:mi mathvariant="script" \rangle T \langle \text{mml:mi \rangle \langle \text{mml:math \rangle}$ -symmetric nonlocal nonlinear Schrödinger equation. <i>Applied Mathematics Letters</i> , 2017, 63, 88-94.	2.7	83
4	Mixed soliton solutions of the defocusing nonlocal nonlinear Schrödinger equation. <i>Physica D: Nonlinear Phenomena</i> , 2019, 390, 47-61.	2.8	66
5	Soliton and breather solutions of the Sasa-Satsuma equation via the Darboux transformation. <i>Physica Scripta</i> , 2014, 89, 075207.	2.5	52
6	Dynamical behaviors and soliton solutions of a generalized higher-order nonlinear Schrödinger equation in optical fibers. <i>Nonlinear Dynamics</i> , 2015, 80, 1451-1461.	5.2	52
7	Generation mechanism of rogue waves for the discrete nonlinear Schrödinger equation. <i>Applied Mathematics Letters</i> , 2018, 83, 110-115.	2.7	50
8	Bright N -soliton solutions in terms of the triple Wronskian for the coupled nonlinear Schrödinger equations in optical fibers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 245205.	2.1	41
9	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
10	An extension of the Wronskian technique for the multicomponent Wronskian solution to the vector nonlinear Schrödinger equation. <i>Journal of Mathematical Physics</i> , 2010, 51, 033504.	1.1	29
11	New extension of the tanh-function method and application to the Whitham-Broer-Kaup shallow water model with symbolic computation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 369, 458-463.	2.1	28
12	General stationary solutions of the nonlocal nonlinear Schrödinger equation and their relevance to the PT-symmetric system. <i>Chaos</i> , 2019, 29, 123124.	2.5	27
13	New Double Wronskian Solutions of the Whitham-Broer-Kaup System: Asymptotic Analysis and Resonant Soliton Interactions. <i>Journal of Nonlinear Mathematical Physics</i> , 2016, 24, 116.	1.3	24
14	Higher-order interactional solutions and rogue wave pairs for the coupled Lakshmanan-Porsezian-Daniel equations. <i>Nonlinear Dynamics</i> , 2019, 98, 1731-1744.	5.2	24
15	Darboux transformation and new solutions for the Whitham-Broer-Kaup equations. <i>Physica Scripta</i> , 2008, 78, 065001.	2.5	23
16	Higher-order algebraic soliton solutions of the Gerdjikov-Ivanov equation: Asymptotic analysis and emergence of rogue waves. <i>Physica D: Nonlinear Phenomena</i> , 2022, 432, 133128.	2.8	21
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	Single- and double-hump femtosecond vector solitons in the coupled Sasa-Satsuma system. <i>Physical Review E</i> , 2013, 87, .	2.1	18

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19	Nonsingular localized wave solutions for the nonlocal Davey–Stewartson I equation with zero background. <i>Modern Physics Letters B</i> , 2017, 31, 1750338.	1.9	17
20	Multi-pole solutions and their asymptotic analysis of the focusing Ablowitz–Ladik equation. <i>Physica Scripta</i> , 2020, 95, 055222.	2.5	17
21	The coupled derivative nonlinear Schrödinger equation: conservation laws, modulation instability and semirational solutions. <i>Nonlinear Dynamics</i> , 2020, 100, 2823-2837.	5.2	15
22	Fully resonant soliton interactions in the Whitham–Broer–Kaup system based on the double Wronskian solutions. <i>Nonlinear Dynamics</i> , 2013, 73, 485-498.	5.2	12
23	On the Nth Iterated Darboux Transformation and Soliton Solutions of a Coherently-Coupled Nonlinear Schrödinger System. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2013, 68a, 261-271.	1.5	10
24	Multi-component Wronskian solution to the Kadomtsev-Petviashvili equation. <i>Computational Mathematics and Mathematical Physics</i> , 2014, 54, 97-113.	0.8	9
25	Quantitative analysis on the bifurcations and exact travelling wave solutions of a generalized fourth-order dispersive nonlinear Schrödinger equation in Heisenberg spin chain. <i>Chaos, Solitons and Fractals</i> , 2021, 145, 110767.	5.1	7
26	Rational solutions of the defocusing non-local nonlinear Schrödinger equation: asymptotic analysis and soliton interactions. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021, 477, .	2.1	7
27	Study on the generation mechanism of bright and dark solitary waves and rogue wave for a fourth-order dispersive nonlinear Schrödinger equation. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020, 69, 010502.	0.5	6
28	Binary Darboux transformation and new soliton solutions of the focusing nonlocal nonlinear Schrödinger equation. <i>Journal of Mathematical Analysis and Applications</i> , 2022, 516, 126514.	1.0	4
29	Asymptotic behaviors of mixed-type vector double-pole solutions for the discrete coupled nonlinear Schrödinger system. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	3
30	Numerical simulation of the soliton solutions for a complex modified Korteweg–de Vries equation by a finite difference method. <i>Communications in Theoretical Physics</i> , 2021, 73, 025005.	2.5	3
31	Elliptic and hyperbolic function solutions of the nonlocal reverse-time and reverse-space-time nonlinear Schrödinger equations. <i>Mathematical Methods in the Applied Sciences</i> , 2022, 45, 10877-10890.	2.3	2
32	Approximate bright-soliton solution of the higher-order nonlinear Schrödinger equation. <i>European Journal of Physics</i> , 2021, 42, 015301.	0.6	1
33	Approximate analytical description for the nonlinear $\{ P \} \{ T \}$ -symmetric coupled-mode equations. <i>European Journal of Physics</i> , 2020, 41, 025305.	0.6	0
34	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
35	Higher-order semirational solutions and W-shaped solitons for the multi-component AB system. <i>Wave Motion</i> , 2021, 106, 102790.	2.0	0