

Zhi-Yuan Sun

List of Publications by Year in descending order

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43
papers

1,065
citations

516710

16
h-index

395702

33
g-index

43
all docs

43
docs citations

43
times ranked

281
citing authors

#	ARTICLE	IF	CITATIONS
1	Amplification of nonautonomous solitons in the Bose-Einstein condensates and nonlinear optics. <i>Europhysics Letters</i> , 2011, 93, 40004.	2.0	106
2	Soliton management for a variable-coefficient modified Kortewegâ€“de Vries equation. <i>Physical Review E</i> , 2011, 84, 026606.	2.1	101
3	Bound vector solitons and soliton complexes for the coupled nonlinear SchrÃ¶dinger equations. <i>Physical Review E</i> , 2009, 80, 066608.	2.1	93
4	Solitonic propagation and interaction for a generalized variable-coefficient forced Kortewegâ€“de Vries equation in fluids. <i>Physical Review E</i> , 2011, 83, 056601.	2.1	85
5	N -soliton solutions, BÃ¤cklund transformation and Lax pair for a generalized variable-coefficient fifth-order Kortewegâ€“de Vries equation. <i>Physica Scripta</i> , 2010, 81, 045402.	2.5	74
6	Inelastic interactions of the multiple-front waves for the modified Kadomtsevâ€“Petviashvili equation in fluid dynamics, plasma physics and electrodynamics. <i>Wave Motion</i> , 2009, 46, 511-521.	2.0	72
7	Wronskian solutions and integrability for a generalized variable-coefficient forced Kortewegâ€“de Vries equation in fluids. <i>Nonlinear Dynamics</i> , 2012, 67, 1023-1030.	5.2	65
8	Dynamics of bound vector solitons induced by stochastic perturbations: Soliton breakup and soliton switching. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 3283-3290.	2.1	63
9	Inelastic interactions and double Wronskian solutions for the Whithamâ€“Broerâ€“Kaup model in shallow water. <i>Physica Scripta</i> , 2009, 80, 065017.	2.5	51
10	Anti-dark solitons for a variable-coefficient higher-order nonlinear SchrÃ¶dinger equation in an inhomogeneous optical fiber. <i>Physica Scripta</i> , 2015, 90, 045201.	2.5	38
11	Multi-soliton solutions of the forced variable-coefficient extended Kortewegâ€“de Vries equation arisen in fluid dynamics of internal solitary waves. <i>Nonlinear Dynamics</i> , 2011, 66, 575-587.	5.2	36
12	Formation of vortices in a combined pressure-driven electro-osmotic flow through the insulated sharp tips under finite Debye length effects. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 366, 1-11.	4.7	35
13	N -soliton solutions for the $\langle \text{mml:math xmlns:mml= "http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mo stretchy="false" \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle$ Tj ETQq1 1 0 3784314		
14	Solitonic interactions, Darboux transformation and double Wronskian solutions for a variable-coefficient derivative nonlinear SchrÃ¶dinger equation in the inhomogeneous plasmas. <i>Nonlinear Dynamics</i> , 2012, 67, 713-722.	5.2	30
15	Parabola solitons for the nonautonomous KP equation in fluids and plasmas. <i>Annals of Physics</i> , 2016, 367, 251-257.	2.8	27
16	Unconventional characteristic line for the nonautonomous KP equation. <i>Applied Mathematics Letters</i> , 2020, 100, 106047.	2.7	18
17	Soliton Solution, BÃ¤cklund Transformation, and Conservation Laws for the Sasa-Satsuma Equation in the Optical Fiber Communications. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2010, 65, 291-300.	1.5	13
18	SOLITON INTERACTIONS FOR THE GENERALIZED (3+1)-DIMENSIONAL BOUSSINESQ EQUATION. <i>International Journal of Modern Physics B</i> , 2012, 26, 1250062.	2.0	10

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19	Mean-field analog of the Hong-Ou-Mandel experiment with bright solitons. <i>Physical Review A</i> , 2014, 90, .	2.5	10
20	Infinite Sequence of Conservation Laws and Analytic Solutions for a Generalized Variable-Coefficient Fifth-Order Korteweg-de Vries Equation in Fluids. <i>Communications in Theoretical Physics</i> , 2011, 55, 629-634.	2.5	9
21	Transport of Nonautonomous Solitons in Two-Dimensional Disordered Media. <i>Annalen Der Physik</i> , 2017, 529, 1600323.	2.4	9
22	Nearly integrable turbulence and rogue waves in disordered nonlinear Schrödinger systems. <i>Physical Review E</i> , 2021, 103, 062203.	2.1	9
23	Analytic study on the pulse transmission control system in dispersion decreasing fibers. <i>Journal of Modern Optics</i> , 2009, 56, 1151-1158.	1.3	8
24	N-SOLITON-LIKE SOLUTIONS AND BÄCKLUND TRANSFORMATIONS FOR A NON-ISOSPECTRAL AND VARIABLE-COEFFICIENT MODIFIED KORTEWEG-DE VRIES EQUATION. <i>International Journal of Modern Physics B</i> , 2011, 25, 723-733.	2.0	8
25	Dynamics of the Manakov-typed bound vector solitons with random initial perturbations. <i>Annals of Physics</i> , 2012, 327, 1744-1760.	2.8	8
26	Soliton mobility in disordered lattices. <i>Physical Review E</i> , 2015, 92, 040903.	2.1	8
27	Investigation on a nonisospectral fifth-order Korteweg-de Vries equation generalized from fluids. <i>Journal of Mathematical Physics</i> , 2012, 53, .	1.1	7
28	Bilinear forms and soliton interactions for two generalized KdV equations for nonlinear waves. <i>Nonlinear Dynamics</i> , 2014, 78, 349-357.	5.2	6
29	Anomalous diffusion of discrete solitons driven by evolving disorder. <i>Physical Review E</i> , 2020, 101, 062211.	2.1	6
30	Soliton trapping in a disordered lattice. <i>Physical Review E</i> , 2015, 92, 012901.	2.1	5
31	Spacial inhomogeneity and nonlinear tunneling for the forced KdV equation. <i>Applied Mathematics Letters</i> , 2018, 75, 30-36.	2.7	4
32	ANALYTIC DARK SOLITON SOLUTIONS FOR A GENERALIZED VARIABLE-COEFFICIENT HIGHER-ORDER NONLINEAR SCHRÖDINGER EQUATION IN OPTICAL FIBERS USING SYMBOLIC COMPUTATION. <i>International Journal of Modern Physics B</i> , 2011, 25, 499-509.	2.0	3
33	Compression of bright bound soliton trains in the Bose-Einstein condensates with exponentially time-dependent atomic scattering length in an expulsive parabolic potential. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012, 391, 2111-2118.	2.6	3
34	Transient diffusion and two-regime localization of discrete breatherlike excitations in nonlinear Schrödinger lattice with disorder. <i>Physical Review E</i> , 2019, 100, 022202.	2.1	3
35	Compression of Bright Bound Solitons in the Bose-Einstein Condensates with Exponentially Time-Dependent Atomic Scattering Length by the Feshbach Resonance. <i>International Journal of Theoretical Physics</i> , 2011, 50, 2776-2789.	1.2	2
36	Switching of bound vector solitons for the coupled nonlinear Schrödinger equations with nonhomogeneously stochastic perturbations. <i>Chaos</i> , 2012, 22, 043132.	2.5	2

#	ARTICLE	IF	CITATIONS
37	Dark Bound Solitons and Soliton Chains for the Higher-Order Nonlinear Schrödinger Equation. International Journal of Theoretical Physics, 2013, 52, 689-698.	1.2	2
38	Nonlinear Schrödinger waves in a disordered potential: Branched flow, spectrum diffusion, and rogue waves. Chaos, 2022, 32, 023108.	2.5	2
39	Two-Soliton Solutions and Interactions for the Generalized Complex Coupled Kortweg-de Vries Equations. Communications in Theoretical Physics, 2011, 55, 473-480.	2.5	1
40	Performing Hong-Ou-Mandel-type numerical experiments with repulsive condensates: The case of dark and dark-bright solitons. Physical Review A, 2016, 94, .	2.5	1
41	Theoretical and Computational Advances in Nonlinear Dynamical Systems. Advances in Mathematical Physics, 2017, 2017, 1-3.	0.8	1
42	Theoretical and Computational Advances in Nonlinear Dynamical Systems 2018. Advances in Mathematical Physics, 2018, 2018, 1-3.	0.8	0
43	Transient anomalous diffusion of discrete breather-like states in a disordered nonlinear optical lattice. OSA Continuum, 2019, 2, 2630.	1.8	0