

# Zhi-Yuan Sun

## List of Publications by Year in descending order

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43  
papers

1,065  
citations

516710

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395702

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all docs

43  
docs citations

43  
times ranked

281  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear Schrödinger waves in a disordered potential: Branched flow, spectrum diffusion, and rogue waves. <i>Chaos</i> , 2022, 32, 023108.	2.5	2
2	Nearly integrable turbulence and rogue waves in disordered nonlinear Schrödinger systems. <i>Physical Review E</i> , 2021, 103, 062203.	2.1	9
3	Unconventional characteristic line for the nonautonomous KP equation. <i>Applied Mathematics Letters</i> , 2020, 100, 106047.	2.7	18
4	Anomalous diffusion of discrete solitons driven by evolving disorder. <i>Physical Review E</i> , 2020, 101, 062211.	2.1	6
5	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
6	Transient anomalous diffusion of discrete breather-like states in a disordered nonlinear optical lattice. <i>OSA Continuum</i> , 2019, 2, 2630.	1.8	0
7	Spacial inhomogeneity and nonlinear tunneling for the forced KdV equation. <i>Applied Mathematics Letters</i> , 2018, 75, 30-36.	2.7	4
8	Theoretical and Computational Advances in Nonlinear Dynamical Systems 2018. <i>Advances in Mathematical Physics</i> , 2018, 2018, 1-3.	0.8	0
9	Transport of Nonautonomous Solitons in Two-Dimensional Disordered Media. <i>Annalen Der Physik</i> , 2017, 529, 1600323.	2.4	9
10	Theoretical and Computational Advances in Nonlinear Dynamical Systems. <i>Advances in Mathematical Physics</i> , 2017, 2017, 1-3.	0.8	1
11	Performing Hong-Ou-Mandel-type numerical experiments with repulsive condensates: The case of dark and dark-bright solitons. <i>Physical Review A</i> , 2016, 94, .	2.5	1
12	Parabola solitons for the nonautonomous KP equation in fluids and plasmas. <i>Annals of Physics</i> , 2016, 367, 251-257.	2.8	27
13	Soliton trapping in a disordered lattice. <i>Physical Review E</i> , 2015, 92, 012901.	2.1	5
14	Soliton mobility in disordered lattices. <i>Physical Review E</i> , 2015, 92, 040903.	2.1	8
15	Anti-dark solitons for a variable-coefficient higher-order nonlinear Schrödinger equation in an inhomogeneous optical fiber. <i>Physica Scripta</i> , 2015, 90, 045201.	2.5	38
16	Mean-field analog of the Hong-Ou-Mandel experiment with bright solitons. <i>Physical Review A</i> , 2014, 90, .	2.5	10
17	Bilinear forms and soliton interactions for two generalized KdV equations for nonlinear waves. <i>Nonlinear Dynamics</i> , 2014, 78, 349-357.	5.2	6
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Investigation on a nonisospectral fifth-order Korteweg-de Vries equation generalized from fluids. Journal of Mathematical Physics, 2012, 53, .	1.1	7
21	Switching of bound vector solitons for the coupled nonlinear Schrödinger equations with nonhomogeneously stochastic perturbations. Chaos, 2012, 22, 043132.	2.5	2
22	SOLITON INTERACTIONS FOR THE GENERALIZED (3+1)-DIMENSIONAL BOUSSINESQ EQUATION. International Journal of Modern Physics B, 2012, 26, 1250062.	2.0	10
23	Dynamics of the Manakov-typed bound vector solitons with random initial perturbations. Annals of Physics, 2012, 327, 1744-1760.	2.8	8
24	Compression of bright bound soliton trains in the Bose-Einstein condensates with exponentially time-dependent atomic scattering length in an expulsive parabolic potential. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 2111-2118.	2.6	3
25	Solitonic interactions, Darboux transformation and double Wronskian solutions for a variable-coefficient derivative nonlinear Schrödinger equation in the inhomogeneous plasmas. Nonlinear Dynamics, 2012, 67, 713-722.	5.2	30
26	Wronskian solutions and integrability for a generalized variable-coefficient forced Korteweg-de Vries equation in fluids. Nonlinear Dynamics, 2012, 67, 1023-1030.	5.2	65
27	Amplification of nonautonomous solitons in the Bose-Einstein condensates and nonlinear optics. Europhysics Letters, 2011, 93, 40004.	2.0	106
28	Solitonic propagation and interaction for a generalized variable-coefficient forced Korteweg-de Vries equation in fluids. Physical Review E, 2011, 83, 056601.	2.1	85
29	Soliton management for a variable-coefficient modified Korteweg-de Vries equation. Physical Review E, 2011, 84, 026606.	2.1	101
30	Compression of Bright Bound Solitons in the Bose-Einstein Condensates with Exponentially Time-Dependent Atomic Scattering Length by the Feshbach Resonance. International Journal of Theoretical Physics, 2011, 50, 2776-2789.	1.2	2
31	Multi-soliton solutions of the forced variable-coefficient extended Korteweg-de Vries equation arisen in fluid dynamics of internal solitary waves. Nonlinear Dynamics, 2011, 66, 575-587.	5.2	36
32	N-soliton solutions for the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll" \rangle \langle \text{mml:mo stretchy="false" \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Tj} \langle \text{mml:mo} \rangle 0 \langle \text{mml:mn} \rangle 0 \langle \text{mml:mo} \rangle \text{BT} / \text{Over}$		
33	optical fibers. Journal of Mathematical Analysis and Applications, 2011, 378, 519-527. Two-Soliton Solutions and Interactions for the Generalized Complex Coupled Korteweg-de Vries Equations. Communications in Theoretical Physics, 2011, 55, 473-480.	2.5	1
34	Infinite Sequence of Conservation Laws and Analytic Solutions for a Generalized Variable-Coefficient Fifth-Order Korteweg-de Vries Equation in Fluids. Communications in Theoretical Physics, 2011, 55, 629-634.	2.5	9
35	ANALYTIC DARK SOLITON SOLUTIONS FOR A GENERALIZED VARIABLE-COEFFICIENT HIGHER-ORDER NONLINEAR SCHRÖDINGER EQUATION IN OPTICAL FIBERS USING SYMBOLIC COMPUTATION. International Journal of Modern Physics B, 2011, 25, 499-509.	2.0	3
36	N-SOLITON-LIKE SOLUTIONS AND Bäcklund Transformations for a Non-Isospectral and Variable-Coefficient Modified Korteweg-de Vries Equation. International Journal of Modern Physics B, 2011, 25, 723-733.	2.0	8

#	ARTICLE	IF	CITATIONS
37	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
38	$N$ -soliton solutions, Bäcklund transformation and Lax pair for a generalized variable-coefficient fifth-order Korteweg-de Vries equation. <i>Physica Scripta</i> , 2010, 81, 045402.	2.5	74
39	Soliton Solution, Bäcklund 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
40	Inelastic interactions of the multiple-front waves for the modified Kadomtsev-Petviashvili equation in fluid dynamics, plasma physics and electrostatics. <i>Wave Motion</i> , 2009, 46, 511-521.	2.0	72
41	Bound vector solitons and soliton complexes for the coupled nonlinear Schrödinger equations. <i>Physical Review E</i> , 2009, 80, 066608.	2.1	93
42	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
43	Inelastic interactions and double Wronskian solutions for the Whitham-Broer-Kaup model in shallow water. <i>Physica Scripta</i> , 2009, 80, 065017.	2.5	51