Wen-Rong Sun

List of Publications by Year
in descending order

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36	651	567281 15	580821 25
papers	citations	h-index	g-index

36	36	36	340
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Vector semirational rogue waves and modulation instability for the coupled higher-order nonlinear SchrÃ¶dinger equations in the birefringent optical fibers. Chaos, 2017, 27, 043114.	2.5	51
2	Dynamics of superregular breathers in the quintic nonlinear SchrÃ¶dinger equation. Nonlinear Dynamics, 2018, 94, 977-989.	5.2	51
3	Breathers and rogue waves of the fifth-order nonlinear SchrÃ¶dinger equation in the Heisenberg ferromagnetic spin chain. Nonlinear Dynamics, 2015, 81, 725-732.	5.2	49
4	Soliton solutions and chaotic motion of the extended Zakharov-Kuznetsov equations in a magnetized two-ion-temperature dusty plasma. Physics of Plasmas, 2014, 21, .	1.9	48
5	Optical rogue waves associated with the negative coherent coupling in an isotropic medium. Physical Review E, 2015, 91, 023205.	2.1	47
6	Dynamic behavior of the quantum Zakharov-Kuznetsov equations in dense quantum magnetoplasmas. Physics of Plasmas, 2014, 21, .	1.9	39
7	Rogue-wave solutions for the Kunduâ€“Eckhaus equation with variable coefficients in an optical fiber. Nonlinear Dynamics, 2015, 81, 1349-1354.	5.2	37
8	Dynamics of Peregrine combs and Peregrine walls in an inhomogeneous Hirota and Maxwell-Bloch system. Communications in Nonlinear Science and Numerical Simulation, 2017, 47, 190-199.	3.3	35
9	Solitary wave and multi-front wave collisions for the Bogoyavlenskiiâ€“Kadomtsevâ€“Petviashili equation in physics, biology and electrical networks. Modern Physics Letters B, 2015, 29, 1550192.	1.9	28
10	Matter rogue waves for the three-component Grossâ€“Pitaevskii equations in the spinor Boseâ€“Einstein condensates. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2018, 474, 20170276.	2.1	28
11	Breatherâ€toâ€soliton transitions and nonlinear wave interactions for the nonlinear SchrÃ¶dinger equation with the sextic operators in optical fibers. Annalen Der Physik, 2017, 529, 1600227.	2.4	24
12	Mechanisms of stationary converted waves and their complexes in the multi-component AB system. Physica D: Nonlinear Phenomena, 2021, 419, 132849.	2.8	21
13	Dynamics of the Zakharov-Kuznetsov-Burgers equations in dusty plasmas. Physics of Plasmas, 2013, 20, .	1.9	18
14	Soliton excitations and interactions for the three-coupled fourth-order nonlinear SchrÃ¶dinger equations in the alpha helical proteins. European Physical Journal D, 2015, 69, 1.	1.3	17
15	Nonautonomous Matter-Wave Solitons in a Boseâ€“Einstein Condensate with an External Potential. Journal of the Physical Society of Japan, 2015, 84, 074003.	1.6	16
16	Vector rogue waves, rogue wave-to-soliton conversions and modulation instability of the higher-order matrix nonlinear SchrÃ¶dinger equation. European Physical Journal Plus, 2018, 133, 1.	2.6	16
17	Solitons, breathers and rogue waves of the coupled Hirota system with 4â€Ã—â€4 Lax pair. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105055.	3.3	16
18	Rogue matter waves in a Bose-Einstein condensate with the external potential. European Physical Journal D, 2014, 68, 1.	1.3	12

#	Article	IF	Citations
19	Prolongation Structure of a Generalised Inhomogeneous Gardner Equation in Plasmas and Fluids. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 337-343.	1.5	11
20	Vector solitons and rogue waves of the matrix Lakshmananâ€“Porsezianâ€“Daniel equation. Nonlinear Dynamics, 2020, 102, 1743-1751.	5.2	11
21	Soliton solutions and BÃcklund transformations of a (2Â+Â1)-dimensional nonlinear evolution equation via the Jaulentâ€“Miodek hierarchy. Nonlinear Dynamics, 2014, 78, 2341-2347.	5.2	10
22	Soliton collisions for a generalized variable-coefficient coupled Hirotaâ€“Maxwellâ€“Bloch system for an erbium-doped optical fiber. Journal of Modern Optics, 2015, 62, 1374-1380.	1.3	7
23	Rogue waves for a coupled nonlinear SchrÃ¶dinger system in a multi-mode fibre. Journal of Modern Optics, 2016, 63, 1924-1931.	1.3	6
24	Breather and double-pole solutions for the Benjamin-Ono equation in a stratified fluid. Waves in Random and Complex Media, 2016, 26, 168-175.	2.7	6
25	Solitons for the (2+1)-dimensional nonlinear SchrÃ¶dinger-Maxwell-Bloch equations in an erbium-doped fibre. Journal of Modern Optics, 2016, 63, 590-597.	1.3	6
26	Nonlinear localized wave conversions for a higher-order nonlinear SchrÃ¶dingerâ€“Maxwellâ€“Bloch system with quintic terms in an erbium-doped fiber. Nonlinear Dynamics, 2017, 89, 383-390.	5.2	6
27	Rogue waves of ultra-high peak amplitude: a mechanism for reaching up to a thousand times the background level. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200842.	2.1	6
28	Stability of Elliptic Solutions to the sinh-Gordon Equation. Journal of Nonlinear Science, 2021, 31, 1.	2.1	6
29	Stochastic dark solitons for a higher-order nonlinear SchrÃ¶dinger equation in the optical fiber. Journal of Modern Optics, 2013, 60, 1644-1651.	1.3	5
30	On the amplification of unchirped soliton pulses in a dispersion-decreasing fiber. Optical and Quantum Electronics, 2015, 47, 139-147.	3.3	5
31	Conservation Laws and Mixed-Type Vector Solitons for the 3-Coupled Variable-Coefficient Nonlinear SchrÃ¶dinger Equations in Inhomogeneous Multicomponent Optical Fibre. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2016, 71, 525-539.	1.5	5
32	Soliton collisions and integrable aspects of the fifth-order Korteweg-de Vries equation for shallow water with surface tension. European Physical Journal D, 2015, 69, 1.	1.3	4
33	Dynamics of fundamental solitons and rogue waves on the mixed backgrounds. European Physical Journal Plus, 2021, 136, 1.	2.6	3
34	Multi-soliton Collisions and BÃcklund Transformations for the (2+1)-dimensional Modified Nizhnikâ€“Novikovâ€“Vesselov Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2015, 70, 629-635.	1.5	1
35	Dynamic behavior of the (3+1)-dimensional generalized Johnson model in a dusty plasma. Journal of Plasma Physics, 2015, 81, .	2.1	0
36	Response to â€œComment on â€˜Soliton solutions and chaotic motion of the extended Zakharov-Kuznetsov equations in a magnetized two-ion-temperature dusty plasmaâ€™â€•[Phys. Plasmas 25, 104701 (2018)]. Physics of Plasmas, 2018, 25, .	1.9	0