Shihua Chen

List of Publications by Year
in descending order

55 papers	1,953 citations	249298 26 h-index	274796 44 g-index
55 all docs	55 docs citations	55 times ranked	793 citing authors

#	Article	IF	Citations
1	Photonic rogue waves in a strongly dispersive coupled-cavity array involving self-attractive Kerr nonlinearity. Physical Review A, 2022, 105, .	1.0	7
2	General rogue wave solutions under SU(2) transformation in the vector Chenâ€"Leeâ€"Liu nonlinear SchrÃ¶dinger equation. Physica D: Nonlinear Phenomena, 2022, 434, 133204.	1.3	8
3	Quadratic Peregrine solitons resonantly radiating without higher-order dispersion. Optics Letters, 2022, 47, 2370.	1.7	14
4	Ultraslow Kuznetsov-Ma solitons and Ahkmediev breathers in a cold three-state medium exposed to nanosecond optical pulses. OSA Continuum, 2021, 4, 1488.	1.8	7
5	Omnipresent coexistence of rogue waves in a nonlinear two-wave interference system and its explanation by modulation instability. Physical Review Research, 2021, 3, .	1.3	14
6	Rogue wave solutions of the vector Lakshmananâ€"Porsezianâ€"Daniel equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126226.	0.9	16
7	Peregrine Solitons on a Periodic Background in the Vector Cubic-Quintic Nonlinear SchrÃ¶dinger Equation. Frontiers in Physics, 2020, 8, .	1.0	10
8	Rogue waves and modulation instability in an extended Manakov system. Nonlinear Dynamics, 2020, 102, 1801-1812.	2.7	11
9	Fundamental Peregrine Solitons of Ultrastrong Amplitude Enhancement through Self-Steepening in Vector Nonlinear Systems. Physical Review Letters, 2020, 124, 113901.	2.9	34
10	Resonant radiation from Peregrine solitons. Optics Letters, 2020, 45, 427.	1.7	29
11	General rogue wave solutions of the coupled Fokasâ€"Lenells equations and non-recursive Darboux transformation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20180806.	1.0	24
12	Super chirped rogue waves in optical fibers. Optics Express, 2019, 27, 11370.	1.7	31
13	Observation of a group of dark rogue waves in a telecommunication optical fiber. Physical Review A, 2018, 97, .	1.0	75
14	Peregrine Solitons Beyond the Threefold Limit and Their Two-Soliton Interactions. Physical Review Letters, 2018, 121, 104101.	2.9	55
15	Spatial Rogue Waves and Modulation Instability in Quadratic Media. , 2018, , .		0
16	Optical Peregrine Rogue Waves in Self-Induced Transparent Media. , 2018, , .		0
17	Localization and mobility edges in the off-diagonal quasiperiodic model with slowly varying potentials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 3683-3687.	0.9	14
18	Versatile rogue waves in scalar, vector, and multidimensional nonlinear systems. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 463001.	0.7	170

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19	Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. Physical Review Letters, 2017, 119, 203205.	2.9	47
20	Optical-fluid dark line and X solitary waves in Kerr media. Optical Data Processing and Storage, 2017, 3, 1-7.	3.3	8
21	Optical Peregrine rogue waves of self-induced transparency in a resonant erbium-doped fiber. Optics Express, 2017, 25, 29687.	1.7	23
22	Two-color walking Peregrine solitary waves. Optics Letters, 2017, 42, 3514.	1.7	28
23	Rogue-wave bullets in a composite (2+1)D nonlinear medium. Optics Express, 2016, 24, 15251.	1.7	40
24	Chirped Peregrine solitons in a class of cubic-quintic nonlinear SchrÃ¶dinger equations. Physical Review E, 2016, 93, 062202.	0.8	41
25	Complementary optical rogue waves in parametric three-wave mixing. Optics Express, 2016, 24, 5886.	1.7	21
26	Spatiotemporal optical dark X solitary waves. Optics Letters, 2016, 41, 5571.	1.7	25
27	Optical rogue waves in parametric three-wave mixing and coherent stimulated scattering. Physical Review A, 2015, 92, .	1.0	36
28	Watch-hand-like optical rogue waves in three-wave interactions. Optics Express, 2015, 23, 349.	1.7	36
29	Baseband modulation instability as the origin of rogue waves. Physical Review A, 2015, 91, .	1.0	150
30	Vector rogue waves in the Manakov system: diversity and compossibility. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 215202.	0.7	112
31	Dark-and-bright rogue waves in long wave-short wave resonance. , 2014, , .		0
32	Prolific Rogue Wave States in the Coupled Hirota Equations. , 2014, , .		0
33	Dark three-sister rogue waves in normally dispersive optical fibers with random birefringence. Optics Express, 2014, 22, 27632.	1.7	52
34	Peregrine solitons and algebraic soliton pairs in Kerr media considering spaceâ€"time correction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1228-1232.	0.9	39
35	Darboux transformation and dark rogue wave states arising from two-wave resonance interaction. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 1095-1098.	0.9	28
36	Dark- and bright-rogue-wave solutions for media with long-waveâ€"short-wave resonance. Physical Review E, 2014, 89, 011201.	0.8	80

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37	Coexisting rogue waves within the (2+1)-component long-waveâ€“short-wave resonance. Physical Review E, 2014, 90, 033203.	0.8	54
38	Dark and composite rogue waves in the coupled Hirota equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2851-2856.	0.9	30
39	Twisted rogue-wave pairs in the Sasa-Satsuma equation. Physical Review E, 2013, 88, 023202.	0.8	115
40	Rogue waves in coupled Hirota systems. Physical Review E, 2013, 87, .	0.8	116
41	Tanh-series representation of stationary dissipative solitons in complex Ginzburg-Landau systems. Physical Review A, 2012, 86, .	1.0	1
42	Analytical spinless light-bullet solutions as attractive fixed points in the three-dimensional cubic-quintic complex Ginzburg-Landau equation. Physical Review A, 2012, 86, .	1.0	5
43	Compression of high-energy ultrashort laser pulses through an argon-filled tapered planar waveguide. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1009.	0.9	12
44	Unusual stability of a one-parameter family of dissipative solitons due to spectral filtering and nonlinearity saturation. Physical Review A, 2010, 81, .	1.0	9
45	Pulse compression with planar hollow waveguides: a pathway towards relativistic intensity with table-top lasers. New Journal of Physics, 2010, 12, 073015.	1.2	19
46	Energy Exchange between Femtosecond Laser Filaments in Air. Physical Review Letters, 2010, 105, 055003.	2.9	71
47	Spatiotemporal Nonlinear Optical Self-Similarity in Three Dimensions. Physical Review Letters, 2009, 102, 233903.	2.9	58
48	Theory of dissipative solitons in complex Ginzburg-Landau systems. Physical Review E, 2008, 78, 025601.	0.8	10
49	Phase fluctuations of linearly chirped solitons in a noisy optical fiber channel with varying dispersion, nonlinearity, and gain. Physical Review E, 2007, 75, 036617.	0.8	10
50	Phase jitter of chirped subpicosecond solitons in a noisy optical fiber channel: Exact moment method description. Europhysics Letters, 2007, 80, 34003.	0.7	2
51	Compression of Hermiteâ€“Gaussian pulses in an engineered optical fiber absorber with varying dispersion and nonlinearity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 353, 493-496.	0.9	8
52	Self-similar evolutions of parabolic, Hermite-Gaussian, and hybrid optical pulses: Universality and diversity. Physical Review E, 2005, 72, 016622.	0.8	56
53	Chirped self-similar solutions of a generalized nonlinear SchrÃ¶dinger equation model. Physical Review E, 2005, 71, 016606.	0.8	59
54	Timing jitter of femtosecond solitons in single-mode optical fibers: A perturbation model. Physical Review E, 2004, 69, 046602.	0.8	25

#	Article	IF	Citations
55	General formulation for parametrically controlled dark-soliton jitter in high-speed optical transmission systems. Optics Communications, 2004, 242, 503-510.	1.0	8