

# Shihua Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,953  
citations

218592

26  
h-index

243529

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

716  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Versatile rogue waves in scalar, vector, and multidimensional nonlinear systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 463001.                                       | 0.7 | 170       |
| 2  | Baseband modulation instability as the origin of rogue waves. <i>Physical Review A</i> , 2015, 91, .   | 1.0 | 150       |
| 3  | Rogue waves in coupled Hirota systems. <i>Physical Review E</i> , 2013, 87, .  | 0.8 | 116       |
| 4  | Twisted rogue-wave pairs in the Sasa-Satsuma equation. <i>Physical Review E</i> , 2013, 88, 023202.  | 0.8 | 115       |
| 5  | Vector rogue waves in the Manakov system: diversity and compossibility. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 215202.  | 0.7 | 112       |
| 6  | Dark- and bright-rogue-wave solutions for media with long-waveâ€“short-wave resonance. <i>Physical Review E</i> , 2014, 89, 011201.  | 0.8 | 80        |
| 7  | Observation of a group of dark rogue waves in a telecommunication optical fiber. <i>Physical Review A</i> , 2018, 97, .  | 1.0 | 75        |
| 8  | Energy Exchange between Femtosecond Laser Filaments in Air. <i>Physical Review Letters</i> , 2010, 105, 055003.  | 2.9 | 71        |
| 9  | Chirped self-similar solutions of a generalized nonlinear SchrÃ¶dinger equation model. <i>Physical Review E</i> , 2005, 71, 016606.  | 0.8 | 59        |
| 10 | Spatiotemporal Nonlinear Optical Self-Similarity in Three Dimensions. <i>Physical Review Letters</i> , 2009, 102, 233903.  | 2.9 | 58        |
| 11 | Self-similar evolutions of parabolic, Hermite-Gaussian, and hybrid optical pulses: Universality and diversity. <i>Physical Review E</i> , 2005, 72, 016622.  | 0.8 | 56        |
| 12 | Peregrine Solitons Beyond the Threefold Limit and Their Two-Soliton Interactions. <i>Physical Review Letters</i> , 2018, 121, 104101.  | 2.9 | 55        |
| 13 | Coexisting rogue waves within the (2+1)-component long-waveâ€“short-wave resonance. <i>Physical Review E</i> , 2014, 90, 033203.   | 0.8 | 54        |
| 14 | Dark three-sister rogue waves in normally dispersive optical fibers with random birefringence. <i>Optics Express</i> , 2014, 22, 27632.  | 1.7 | 52        |
| 15 | Unexpected Sensitivity of Nitrogen Ions Superradiant Emission on Pump Laser Wavelength and Duration. <i>Physical Review Letters</i> , 2017, 119, 203205.   | 2.9 | 47        |
| 16 | Chirped Peregrine solitons in a class of cubic-quintic nonlinear SchrÃ¶dinger equations. <i>Physical Review E</i> , 2016, 93, 062202.  | 0.8 | 41        |
| 17 | Rogue-wave bullets in a composite (2+1)D nonlinear medium. <i>Optics Express</i> , 2016, 24, 15251.  | 1.7 | 40        |
| 18 | Peregrine solitons and algebraic soliton pairs in Kerr media considering spaceâ€“time correction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1228-1232. | 0.9 | 39        |

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|----|---|-----|-----------|
| 19 | Optical rogue waves in parametric three-wave mixing and coherent stimulated scattering. <i>Physical Review A</i> , 2015, 92, .  | 1.0 | 36        |
| 20 | Watch-hand-like optical rogue waves in three-wave interactions. <i>Optics Express</i> , 2015, 23, 349.  | 1.7 | 36        |
| 21 | Fundamental Peregrine Solitons of Ultrastrong Amplitude Enhancement through Self-Steepening in Vector Nonlinear Systems. <i>Physical Review Letters</i> , 2020, 124, 113901.  | 2.9 | 34        |
| 22 | Super chirped rogue waves in optical fibers. <i>Optics Express</i> , 2019, 27, 11370.   | 1.7 | 31        |
| 23 | Dark and composite rogue waves in the coupled Hirota equations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 2851-2856.  | 0.9 | 30        |
| 24 | Resonant radiation from Peregrine solitons. <i>Optics Letters</i> , 2020, 45, 427.  | 1.7 | 29        |
| 25 | Darboux transformation and dark rogue wave states arising from two-wave resonance interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014, 378, 1095-1098.                               | 0.9 | 28        |
| 26 | Two-color walking Peregrine solitary waves. <i>Optics Letters</i> , 2017, 42, 3514.   | 1.7 | 28        |
| 27 | Timing jitter of femtosecond solitons in single-mode optical fibers: A perturbation model. <i>Physical Review E</i> , 2004, 69, 046602.   | 0.8 | 25        |
| 28 | Spatiotemporal optical dark X solitary waves. <i>Optics Letters</i> , 2016, 41, 5571.   | 1.7 | 25        |
| 29 | General rogue wave solutions of the coupled Fokas–Lenells equations and non-recursive Darboux transformation. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20180806. | 1.0 | 24        |
| 30 | Optical Peregrine rogue waves of self-induced transparency in a resonant erbium-doped fiber. <i>Optics Express</i> , 2017, 25, 29687.   | 1.7 | 23        |
| 31 | Complementary optical rogue waves in parametric three-wave mixing. <i>Optics Express</i> , 2016, 24, 5886.  | 1.7 | 21        |
| 32 | Pulse compression with planar hollow waveguides: a pathway towards relativistic intensity with table-top lasers. <i>New Journal of Physics</i> , 2010, 12, 073015.  | 1.2 | 19        |
| 33 | Rogue wave solutions of the vector Lakshmanan–Porsezian–Daniel equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126226.  | 0.9 | 16        |
| 34 | Localization and mobility edges in the off-diagonal quasiperiodic model with slowly varying potentials. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 3683-3687.                      | 0.9 | 14        |
| 35 | Omnipresent coexistence of rogue waves in a nonlinear two-wave interference system and its explanation by modulation instability. <i>Physical Review Research</i> , 2021, 3, .  | 1.3 | 14        |
| 36 | Quadratic Peregrine solitons resonantly radiating without higher-order dispersion. <i>Optics Letters</i> , 2022, 47, 2370.  | 1.7 | 14        |

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|----|---|-----|-----------|
| 37 | Compression of high-energy ultrashort laser pulses through an argon-filled tapered planar waveguide. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, 1009.                                  | 0.9 | 12        |
| 38 | Rogue waves and modulation instability in an extended Manakov system. <i>Nonlinear Dynamics</i> , 2020, 102, 1801-1812.   | 2.7 | 11        |
| 39 | Phase fluctuations of linearly chirped solitons in a noisy optical fiber channel with varying dispersion, nonlinearity, and gain. <i>Physical Review E</i> , 2007, 75, 036617.  | 0.8 | 10        |
| 40 | Theory of dissipative solitons in complex Ginzburg-Landau systems. <i>Physical Review E</i> , 2008, 78, 025601.   | 0.8 | 10        |
| 41 | Peregrine Solitons on a Periodic Background in the Vector Cubic-Quintic Nonlinear Schrödinger Equation. <i>Frontiers in Physics</i> , 2020, 8, .  | 1.0 | 10        |
| 42 | Unusual stability of a one-parameter family of dissipative solitons due to spectral filtering and nonlinearity saturation. <i>Physical Review A</i> , 2010, 81, .   | 1.0 | 9         |
| 43 | General formulation for parametrically controlled dark-soliton jitter in high-speed optical transmission systems. <i>Optics Communications</i> , 2004, 242, 503-510.  | 1.0 | 8         |
| 44 | Compression of Hermiteâ€“Gaussian pulses in an engineered optical fiber absorber with varying dispersion and nonlinearity. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 353, 493-496. | 0.9 | 8         |
| 45 | Optical-fluid dark line and X solitary waves in Kerr media. <i>Optical Data Processing and Storage</i> , 2017, 3, 1-7.  | 3.3 | 8         |
| 46 | General rogue wave solutions under SU(2) transformation in the vector Chenâ€“Leeâ€“Liu nonlinear Schrödinger equation. <i>Physica D: Nonlinear Phenomena</i> , 2022, 434, 133204.   | 1.3 | 8         |
| 47 | Ultraslow Kuznetsov-Ma solitons and Ahkmediev breathers in a cold three-state medium exposed to nanosecond optical pulses. <i>OSA Continuum</i> , 2021, 4, 1488.  | 1.8 | 7         |
| 48 | Photonic rogue waves in a strongly dispersive coupled-cavity array involving self-attractive Kerr nonlinearity. <i>Physical Review A</i> , 2022, 105, .   | 1.0 | 7         |
| 49 | Analytical spinless light-bullet solutions as attractive fixed points in the three-dimensional cubic-quintic complex Ginzburg-Landau equation. <i>Physical Review A</i> , 2012, 86, .                                       | 1.0 | 5         |
| 50 | Phase jitter of chirped subpicosecond solitons in a noisy optical fiber channel: Exact moment method description. <i>Europhysics Letters</i> , 2007, 80, 34003.   | 0.7 | 2         |
| 51 | Tanh-series representation of stationary dissipative solitons in complex Ginzburg-Landau systems. <i>Physical Review A</i> , 2012, 86, .  | 1.0 | 1         |
| 52 | Dark-and-bright rogue waves in long wave-short wave resonance. , 2014, , .  |     | 0         |
| 53 | Prolific Rogue Wave States in the Coupled Hirota Equations. , 2014, , .   |     | 0         |
| 54 | Spatial Rogue Waves and Modulation Instability in Quadratic Media. , 2018, , .  |     | 0         |

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|----|--|----|-----------|
| 55 | Optical Peregrine Rogue Waves in Self-Induced Transparent Media. , 2018, , . |    | 0         |