Nail Akhmediev

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1098284/publications.pdf

Version: 2024-02-01

352 papers	24,738 citations	8208 78 h-index	8878 150 g-index
353 all docs	353 docs citations	353 times ranked	4934 citing authors

#	Article	IF	Citations
1	Non-degenerate multi-rogue waves and easy ways of their excitation. Physica D: Nonlinear Phenomena, 2022, 433, 133192.	1.3	20
2	Nondegenerate Kuznetsov-Ma solitons of Manakov equationsÂand their physical spectra. Physical Review A, 2022, 105, .	1.0	26
3	Waves that Appear From Nowhere: Complex Rogue Wave Structures and Their Elementary Particles. Frontiers in Physics, 2021, 8, .	1.0	35
4	Complex Kortewegâ€“de Vries equation: A deeper theory of shallow water waves. Physical Review E, 2021, 103, 022216.	0.8	4
5	â€œExtraordinaryâ€•modulation instability in optics and hydrodynamics. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	36
6	Heterodyne Optical Time Domain Reflectometer Combined With Active Loss Compensation: A Practical Tool for Investigating Fermi Pasta Ulam Recurrence Process and Breathers Dynamics in Optical Fibers. Frontiers in Physics, 2021, 9, .	1.0	11
7	Concurrent Passive Mode-Locked and Self- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Q</mml:mi></mml:mrow></mml:math> -Switched Operation in Laser Systems. Physical Review Letters, 2021, 126, 224101.	2.9	14
8	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Q</mml:mi></mml:math> -switching bifurcation dynamics of passively mode-locked lasers. Physical Review E, 2021, 104, 024221.	0.8	2
9	The Peregrine Breather on the Zero-Background Limit as the Two-Soliton Degenerate Solution: An Experimental Study. Frontiers in Physics, 2021, 9, .	1.0	9
10	Exact Analytic Spectra of Asymmetric Modulation Instability in Systems with Self-Steepening Effect. Physical Review Letters, 2021, 127, 094102.	2.9	22
11	Extreme spectral asymmetry of Akhmediev breathers and Fermi-Pasta-Ulam recurrence in a Manakov system. Physical Review E, 2021, 104, 024215.	0.8	21
12	Role of the quintic nonlinear refractive term in the stability of dissipative solitons of the complex Ginzburgâ€“Landau equation. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 3541.	0.9	2
13	Experimental Realization of Periodic Deep-Water Wave Envelopes with and without Dissipation. Water Waves, 2020, 2, 113-122.	0.3	4
14	Infinitely extended complex KdV equation and its solutions : solitons and rogue waves. Physica Scripta, 2020, 95, 035201.	1.2	7
15	Intricate dynamics of rogue waves governed by the Sasaâ€“Satsuma equation. Physica D: Nonlinear Phenomena, 2020, 402, 132252.	1.3	21
16	Concurrent instabilities causing multiple rogue waves in infinite-dimensional dynamical systems. Nonlinear Dynamics, 2020, 99, 2265-2275.	2.7	2
17	Fundamental Peregrine Solitons of Ultrastrong Amplitude Enhancement through Self-Steepening in Vector Nonlinear Systems. Physical Review Letters, 2020, 124, 113901.	2.9	34
18	Doubly periodic solutions of the focusing nonlinear SchrÃ¶dinger equation: Recurrence, period doubling, and amplification outside the conventional modulation-instability band. Physical Review A, 2020, 101, .	1.0	43

#	Article	IF	Citations
19	Observation of doubly periodic solutions of the nonlinear SchrÃ¶dinger equation in optical fibers. Optics Letters, 2020, 45, 3757.	1.7	16
20	The IST spectral portraits of the first order doubly periodic solutions of the nonlinear SchrÃ¶dinger equation. Physica Scripta, 2020, 95, 115202.	1.2	0
21	Two-breather solutions for the class I infinitely extended nonlinear SchrÃ¶dinger equation and their special cases. Nonlinear Dynamics, 2019, 98, 245-255.	2.7	4
22	Midinfrared Pulse Generation by Pumping in the Normal-Dispersion Regime of a Gas-Filled Hollow-Core Fiber. Physical Review Applied, 2019, 12, .	1.5	11
23	Bright and dark rogue internal waves: The Gardner equation approach. Physical Review E, 2019, 99, 062224.	0.8	15
24	Revealing the Transition Dynamics from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Q</mml:mi></mml:math> Switching to Mode Locking in a Soliton Laser. Physical Review Letters, 2019, 123, 093901.	2.9	173
25	Doubly periodic solutions of the class-I infinitely extended nonlinear SchrÃ¶dinger equation. Physical Review E, 2019, 99, 052217.	0.8	12
26	Shallow-water rogue waves: An approach based on complex solutions of the Kortewegâ€“de Vries equation. Physical Review E, 2019, 99, 050201.	0.8	25
27	Drifting breathers and Fermiâ€“Pastaâ€“Ulam paradox for water waves. Wave Motion, 2019, 90, 168-174.	1.0	17
28	Directional soliton and breather beams. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 9759-9763.	3.3	17
29	Super-regular breathers in nonlinear systems with self-steepening effect. Physical Review E, 2019, 100, 062201.	0.8	19
30	Rogue waves in higher-order systems: Lagrangian approach. Physica Scripta, 2019, 94, 035203.	1.2	2
31	Chessboard-like spatio-temporal interference patterns and their excitation. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1294.	0.9	20
32	New developments in the theory of rogue waves. , 2019, , .		0
33	Rogue wave-type solutions of the mKdV equation and their relation to known NLSE rogue wave solutions. Nonlinear Dynamics, 2018, 91, 1931-1938.	2.7	51
34	Generalised Sasaâ€“Satsuma Equation: Densities Approach to New Infinite Hierarchy of Integrable Evolution Equations. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2018, 73, 1121-1128.	0.7	3
35	Modulation instability in higher-order nonlinear SchrÃ¶dinger equations. Chaos, 2018, 28, 123116.	1.0	10
36	Drifting Rogue Packets. , 2018, , .		0

#	Article	IF	Citations
37	Sasa-Satsuma hierarchy of integrable evolution equations. Chaos, 2018, 28, 053108.	1.0	11
38	Rogue waves under influence of Raman delay. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 899.	0.9	12
39	Empirical Formulae for Dispersion and Effective Mode Area in Hollow-Core Antiresonant Fibers. Journal of Lightwave Technology, 2018, 36, 4060-4065.	2.7	34
40	Dissipative solitons with extreme spikes in the normal and anomalous dispersion regimes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20180023.	1.6	6
41	Extreme Pulse Dynamics in Mode-Locked Lasers. Springer Proceedings in Physics, 2018, , 171-189.	0.1	0
42	Experiments on higher-order and degenerate Akhmediev breather-type rogue water waves. Journal of Ocean Engineering and Marine Energy, 2017, 3, 385-394.	0.9	12
43	Breather solutions of a fourth-order nonlinear SchrÃ¶dinger equation in the degenerate, soliton, and rogue wave limits. Physical Review E, 2017, 96, 042209.	0.8	47
44	Rogue wave solutions for the infinite integrable nonlinear SchrÃ¶dinger equation hierarchy. Physical Review E, 2017, 96, 012219.	0.8	32
45	Adiabatic transformation of continuous waves into trains of pulses. Physical Review A, 2017, 96, .	1.0	32
46	Few-cycle solitons that do not want to be too short in duration. , 2017, , .		0
47	Dissipative solitons with extreme spikes. , 2017, , .		0
48	Kerr frequency combs and triangular spectra. Optics Letters, 2017, 42, 2126.	1.7	3
49	Dissipative solitons with extreme spikes: bifurcation diagrams in the anomalous dispersion regime. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 1542.	0.9	14
50	Positive and negative curvatures nested in an antiresonant hollow-core fiber. Optics Letters, 2017, 42, 703.	1.7	56
51	Mid-infrared supercontinuum generation in supercritical xenon-filled hollow-core negative curvature fibers. Optics Letters, 2016, 41, 5122.	1.7	62
52	Periodic and rational solutions of modified Korteweg-de Vries equation. European Physical Journal D, 2016, 70, 1.	0.6	29
53	Roadmap on optical rogue waves and extreme events. Journal of Optics (United Kingdom), 2016, 18, 063001.	1.0	225
54	Hydrodynamic Envelope Solitons and Breathers. Lecture Notes in Physics, 2016, , 55-87.	0.3	3

#	Article	IF	Citations
55	Breather turbulence versus soliton turbulence: Rogue waves, probability density functions, and spectral features. Physical Review E, 2016, 94, 022212.	0.8	52
56	Infinite hierarchy of nonlinear SchrÃ¶dinger equations and their solutions. Physical Review E, 2016, 93, 012206.	0.8	133
57	Integrable Turbulence and Rogue Waves: Breathers or Solitons?. Physical Review Letters, 2016, 116, 103901.	2.9	181
58	Modulation Instability and Phase-Shifted Fermi-Pasta-Ulam Recurrence. Scientific Reports, 2016, 6, 28516.	1.6	112
59	How Cherenkov radiative losses can improve optical frequency combs. Science, 2016, 351, 340-341.	6.0	5
60	Observation of Coexisting Dissipative Solitons in a Mode-Locked Fiber Laser. Physical Review Letters, 2015, 115, 253903.	2.9	35
61	Extreme soliton pulsations in dissipative systems. Physical Review E, 2015, 92, 022926.	0.8	75
62	Superregular Breathers in Optics and Hydrodynamics: Omnipresent Modulation Instability beyond Simple Periodicity. Physical Review X, 2015, 5, .	2.8	91
63	Nonlinear Photonics 2014: Introduction. Optics Express, 2015, 23, 484.	1.7	0
64	Breather solutions of the integrable quintic nonlinear SchrÃ¶dinger equation and their interactions. Physical Review E, 2015, 91, 022919.	0.8	63
65	Moving breathers and breather-to-soliton conversions for the Hirota equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2015, 471, 20150130.	1.0	85
66	Breather-to-soliton conversions described by the quintic equation of the nonlinear SchrÃ¶dinger hierarchy. Physical Review E, 2015, 91, 032928.	0.8	98
67	Integrable equations of the infinite nonlinear SchrÃ¶dinger equation hierarchy with time variable coefficients. Chaos, 2015, 25, 103114.	1.0	43
68	Extreme amplitude spikes in a laser model described by the complex Ginzburgâ€“Landau equation. Optics Letters, 2015, 40, 2949.	1.7	28
69	Spiny solitons and noise-like pulses. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1377.	0.9	45
70	Rogue wave spectra of the Sasaâ€“Satsuma equation. Physica D: Nonlinear Phenomena, 2015, 294, 37-42.	1.3	42
71	Solitons that are too Short in Duration. , 2014, , .		0
72	Dissipative solitons with energy and matter flows. , 2014, , .		0

#	Article	IF	Citations
73	Exploding solitons vs rogue waves in laser cavities. , 2014, , .		2
74	Spectral properties of limiting solitons in optical fibers. Optics Express, 2014, 22, 30251.	1.7	8
75	Recent progress in theory of nonlinear pulse propagation in optical fibers. , 2014, , .		1
76	Fermi-Pasta-Ulam Recurrence in Nonlinear Fiber Optics: The Role of Reversible and Irreversible Losses. Physical Review X, 2014, 4, .	2.8	37
77	Ultrashort optical solitons in transparent nonlinear media with arbitrary dispersion. Optical and Quantum Electronics, 2014, 46, 1233-1238.	1.5	10
78	Rogue waves and solitons on a cnoidal background. European Physical Journal: Special Topics, 2014, 223, 43-62.	1.2	96
79	Gray solitons on the surface of water. Physical Review E, 2014, 89, 011002.	0.8	16
80	Extended nonlinear SchrÃ¶dinger equation with higher-order odd and even terms and its rogue wave solutions. Physical Review E, 2014, 89, 012907.	0.8	154
81	Higher-order integrable evolution equation and its soliton solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 358-361.	0.9	126
82	Solutions of the higher-order Manakov-type continuous and discrete equations. Physical Review E, 2014, 90, 012902.	0.8	2
83	Hydrodynamics of periodic breathers. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20140005.	1.6	63
84	Soliton solutions of an integrable nonlinear SchrÃ¶dinger equation with quintic terms. Physical Review E, 2014, 90, 032922.	0.8	117
85	Rogue waves of the Sasa-Satsuma equation in a chaotic wave field. Physical Review E, 2014, 90, 032902.	0.8	45
86	Double peak rogue waves of the Sasa-Satsuma equation in a chaotic wave field. , 2014, , .		1
87	Multiple appearances and disappearances of Fermi Pasta Ulam Recurrence due to reversible and irreversible losses in Nonlinear Fiber Optics. , 2014, , .		0
88	Super-rogue waves in simulations based on weakly nonlinear and fully nonlinear hydrodynamic equations. Physical Review E, 2013, 88, 012909.	0.8	65
89	Hydrodynamic Supercontinuum. Physical Review Letters, 2013, 111, 054104.	2.9	57
90	Exploding dissipative solitons in reaction-diffusion systems. Physical Review E, 2013, 88, 042911.	0.8	16

#	Article	IF	Citations
91	Classifying the hierarchy of nonlinear-SchrÃ¶dinger-equation rogue-wave solutions. Physical Review E, 2013, 88, 013207.	0.8	147
92	Experiments on wind-perturbed rogue wave hydrodynamics using the Peregrine breather model. Physics of Fluids, 2013, 25, .	1.6	59
93	Observation of rogue wave triplets in water waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 2590-2593.	0.9	64
94	Ultrashort optical solitons in nonlinear media with arbitrary dispersion. , 2013, , .		0
95	Solitons on a background, rogue waves, and classical soliton solutions of extended Nonlinear Schrödinger Equations. , 2013, , .		0
96	Few-cycle optical solitary waves in nonlinear dispersive media. Physical Review A, 2013, 87, .	1.0	31
97	Solitons on a background, rogue waves, and classical soliton solutions of the Sasaâ€“Satsuma equation. Journal of Optics (United Kingdom), 2013, 15, 064006.	1.0	10
98	Dissipative solitons with energy and matter flows: Fundamental building blocks for the world of living organisms. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 968-974.	0.9	15
99	Experimental Observation of Dark Solitons on the Surface of Water. Physical Review Letters, 2013, 110, 124101.	2.9	87
100	Dissipative rogue wave generation in multiple-pulsing mode-locked fiber laser. Journal of Optics (United Kingdom), 2013, 15, 064005.	1.0	46
101	Dissipative rogue waves through multi-pulse collisions in a fiber laser. , 2013, , .		0
102	Appearances and disappearances of Fermi Pasta Ulam recurrence in nonlinear fiber optics. , 2013, , .		0
103	Recent progress in investigating optical rogue waves. Journal of Optics (United Kingdom), 2013, 15, 060201.	1.0	252
104	The phase patterns of higher-order rogue waves. Journal of Optics (United Kingdom), 2013, 15, 064011.	1.0	16
105	Rogue waves in optical fibers in presence of third-order dispersion, self-steepening, and self-frequency shift. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 87.	0.9	70
106	Rogue waves of the nonlinear SchrÃ¶dinger equation with even symmetric perturbations. Journal of Optics (United Kingdom), 2013, 15, 064007.	1.0	7
107	Rogue waves and other solutions of single and coupled Ablowitzâ€“Ladik and nonlinear SchrÃ¶dinger equations. Journal of Optics (United Kingdom), 2013, 15, 064008.	1.0	17
108	Seeded and spontaneous higher-order modulation instability. , 2012, , .		0

#	Article	IF	Citations
109	Rogue wave clusters with atom-like structures. , 2012, , .		0
110	Focus Issue Introduction: Nonlinear Photonics. Optics Express, 2012, 20, 27212.	1.7	3
111	Sasa-Satsuma equation: Soliton on a background and its limiting cases. Physical Review E, 2012, 86, 026606.	0.8	88
112	Experimental study of spatiotemporally localized surface gravity water waves. Physical Review E, 2012, 86, 016311.	0.8	60
113	Modulation instability, Cherenkov radiation, and Fermiâ€“Pastaâ€“Ulam recurrence. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1930.	0.9	24
114	Higher-order modulation instability in fiber optics. , 2012, , .		0
115	Super Rogue Waves: Observation of a Higher-Order Breather in Water Waves. Physical Review X, 2012, 2, .	2.8	199
116	Observation of a hierarchy of up to fifth-order rogue waves in a water tank. Physical Review E, 2012, 86, 056601.	0.8	172
117	Observation of Kuznetsov-Ma soliton dynamics in optical fibre. Scientific Reports, 2012, 2, 463.	1.6	345
118	Triangular rogue wave cascades. Physical Review E, 2012, 86, 056602.	0.8	57
119	Spectral properties of the Peregrine soliton observed in a water wave tank. Journal of Geophysical Research, 2012, 117, .	3.3	18
120	Second-order nonlinear SchrÃ¶dinger equation breather solutions in the degenerate and rogue wave limits. Physical Review E, 2012, 85, 066601.	0.8	215
121	Dissipative solitons for mode-locked lasers. Nature Photonics, 2012, 6, 84-92.	15.6	1,362
122	Dissipative Rogue Waves Generated by Chaotic Pulse Bunching in a Mode-Locked Laser. Physical Review Letters, 2012, 108, 233901.	2.9	368
123	Observation of rogue wave holes in a water wave tank. Journal of Geophysical Research, 2012, 117, .	3.3	21
124	Persistence of rogue waves in extended nonlinear SchrÃ¶dinger equations: Integrable Sasaâ€“Satsuma case. Physics Letters, Section A: General, Atomic and Solid State Physics, 2012, 376, 1558-1561.	0.9	103
125	Kuznetsov-Ma Soliton Dynamics in Nonlinear Fiber Optics. , 2012, , .		1
126	Dissipative rogue wave generation from a mode-locked fiber laser experiment. , 2012, , .		0

#	Article	IF	Citations
127	Rogue waves in extended nonlinear SchrÃ¶dinger equations: Integrable Sasaâ€“Satsuma case. , 2012, , .		0
128	Modulation instability, Fermi-Pasta-Ulam recurrence, rogue waves, nonlinear phase shift, and exact solutions of the Ablowitz-Ladik equation. Physical Review E, 2011, 83, 046603.	0.8	79
129	Approach to first-order exact solutions of the Ablowitz-Ladik equation. Physical Review E, 2011, 83, 056602.	0.8	21
130	Optical rogue waves and localized structures in nonlinear fiber optics. , 2011, , .		0
131	Dissipative rogue waves: Extreme pulses generated by passively mode-locked lasers. Physical Review E, 2011, 84, 016604.	0.8	168
132	Higher-Order Modulation Instability in Nonlinear Fiber Optics. Physical Review Letters, 2011, 107, 253901.	2.9	182
133	Spectral dynamics of modulation instability described using Akhmediev breather theory. Optics Letters, 2011, 36, 2140.	1.7	92
134	Convection-induced stabilization of optical dissipative solitons. Optics Letters, 2011, 36, 4410.	1.7	3
135	Rogue Wave Observation in a Water Wave Tank. Physical Review Letters, 2011, 106, 204502.	2.9	960
136	Circular rogue wave clusters. Physical Review E, 2011, 84, 056611.	0.8	179
137	Dispersion of nonlinear group velocity determines shortest envelope solitons. Physical Review A, 2011, 84, .	1.0	21
138	Rogue waves as energy concentrators in arrays of coupled nonlinear waveguides. Proceedings of SPIE, 2011, , .	0.8	0
139	Rediscovered dynamics of nonlinear fiber optics: from breathers to extreme localisation. , 2011, , .		0
140	Analytical studies of modulation instability and nonlinear compression dynamics in optical fiber propagation. Proceedings of SPIE, 2011, , .	0.8	2
141	Peregrine soliton in optical fiber-based systems. , 2011, , .		1
142	Recurrence phase shift in Fermiâ€“Pastaâ€“Ulam nonlinear dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 4158-4161.	0.9	26
143	Generating ultra-short high-energy pulses using dissipative soliton resonance: Pulse compression schemes. , 2011, , .		3
144	Early detection of rogue waves in a chaotic wave field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2999-3001.	0.9	34

#	Article	IF	Citations
145	Universal triangular spectra in parametrically-driven systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 775-779.	0.9	45
146	Rogue wave early warning through spectral measurements?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 541-544.	0.9	78
147	Rogue wave triplets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 2782-2785.	0.9	195
148	Universal spectral dynamics of modulation instability: theory, simulation, experiment. , 2011, , .		1
149	Ubiquitous Rogue Waves. , 2011, , .		0
150	Characteristic triangular spectra of extreme localised structures: insight from optics into rogue wave early warning. , 2011, , .		0
151	Optical Rogue Waves: Physics and Impact. , 2011, , .		0
152	Rogue waves, rational solutions, the patterns of their zeros and integral relations. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 122002.	0.7	119
153	Editorial â€“ Introductory remarks on â€œDiscussion & Debate: Rogue Waves â€“ Towards a Unifying Concept?â€• European Physical Journal: Special Topics, 2010, 185, 1-4.	1.2	202
154	Rogue waves â€“ towards a unifying concept?: Discussions and debates. European Physical Journal: Special Topics, 2010, 185, 5-15.	1.2	100
155	Vector rogue waves in binary mixtures of Bose-Einstein condensates. European Physical Journal: Special Topics, 2010, 185, 169-180.	1.2	185
156	Could rogue waves be used as efficient weapons against enemy ships?. European Physical Journal: Special Topics, 2010, 185, 259-266.	1.2	32
157	Efficient modulation frequency doubling by induced modulation instability. Optics Communications, 2010, 283, 1152-1154.	1.0	35
158	Collisions and turbulence in optical rogue wave formation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 989-996.	0.9	106
159	The Peregrine soliton in nonlinear fibre optics. Nature Physics, 2010, 6, 790-795.	6.5	1,166
160	Modulation instability, Akhmediev breathers, and rogue waves in nonlinear fiber optics. Proceedings of SPIE, 2010, , .	0.8	1
161	Supercontinuum to solitons: New nonlinear structures in fiber propagation. , 2010, , .		0
162	Akhmediev Breather dynamics and the nonlinear modulation instability spectrum. Proceedings of SPIE, 2010, , .	0.8	0

#	Article	IF	Citations
163	Collisions and emergence of optical rogue solitons. , 2010, , .		0
164	Discrete rogue waves of the Ablowitz-Ladik and Hirota equations. Physical Review E, 2010, 82, 026602.	0.8	152
165	Rogue waves and rational solutions of the Hirota equation. Physical Review E, 2010, 81, 046602.	0.8	413
166	Dissipative soliton resonance as a guideline for high-energy pulse laser oscillators. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2336.	0.9	137
167	Three-dimensional rogue waves in nonstationary parabolic potentials. Physical Review E, 2010, 82, 036610.	0.8	121
168	Dissipative solitons for mode-locked fiber lasers. , 2010, , .		1
169	Dissipative Soliton Lasers. , 2010, , .		0
170	Rogue waves in presence of higher order effects. , 2010, , .		0
171	Collisions in optical rogue wave formation. , 2010, , .		0
172	Matter rogue waves. Physical Review A, 2009, 80, .	1.0	558
173	Dissipative ring solitons with high values of vorticity. , 2009, , .		0
174	Waves that appear from nowhere - rogue waves in optics. , 2009, , .		0
175	Dissipative soliton resonances in the anomalous dispersion regime. Physical Review A, 2009, 79, .	1.0	155
176	Effect of an external periodic potential on pairs of dissipative solitons. Physical Review A, 2009, 80, .	1.0	20
177	Rogue waves and turbulence in optics: Rediscovered frontiers in nonlinear dynamics. , 2009, , .		0
178	Pulsating dissipative light bullets. , 2009, , .		0
179	DISSIPATIVE SOLITONS: PRESENT UNDERSTANDING, APPLICATIONS AND NEW DEVELOPMENTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 2621-2636.	0.7	24
180	Complexes and molecules of dissipative solitons in mode-locked lasers. , 2009, , .		0

#	Article	IF	Citations
181	Are rogue waves robust against perturbations?. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 3997-4000.	0.9	182
182	Waves that appear from nowhere and disappear without a trace. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 675-678.	0.9	1,052
183	Extreme waves that appear from nowhere: On the nature of rogue waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2137-2145.	0.9	523
184	Rogue waves as spatial energy concentrators in arrays of nonlinear waveguides. Optics Letters, 2009, 34, 3015.	1.7	95
185	Rogue waves and rational solutions of the nonlinear SchrÃ¶dinger equation. Physical Review E, 2009, 80, 026601.	0.8	803
186	How to excite a rogue wave. Physical Review A, 2009, 80, .	1.0	262
187	Influence of external phase and gain-loss modulation on bound solitons in laser systems. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2204.	0.9	17
188	Dissipative ring solitons with vorticity. Optics Express, 2009, 17, 4236.	1.7	46
189	Modulation instability, Akhmediev Breathers and continuous wave supercontinuum generation. Optics Express, 2009, 17, 21497.	1.7	456
190	Stationary and pulsating dissipative light bullets from a collective variable approach. Physical Review E, 2009, 79, 026609.	0.8	33
191	Roadmap to ultra-short record high-energy pulses out of laser oscillators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 3124-3128.	0.9	189
192	Heat dissipative solitons in optical fibers. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 1531-1534.	0.9	17
193	Comparison of Lagrangian approach and method of moments for reducing dimensionality of soliton dynamical systems. Chaos, 2008, 18, 033129.	1.0	5
194	Dissipative soliton resonances. Physical Review A, 2008, 78, .	1.0	376
195	Optical Fiber Systems Are Convectively Unstable. Physical Review Letters, 2008, 101, 113904.	2.9	48
196	Velocity of heat dissipative solitons in optical fibers. Optics Letters, 2008, 33, 2176.	1.7	9
197	Dissipative soliton resonances in laser models with parameter management. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1972.	0.9	100
198	Transformations of continuously self-focusing and continuously self-defocusing dissipative solitons. Optics Express, 2008, 16, 15388.	1.7	21

#	Article	IF	Citations
199	Three Sources and Three Component Parts of the Concept of Dissipative Solitons. Lecture Notes in Physics, 2008, , 1-28.	0.3	20
200	Continuously self-focusing and continuously self-defocusing two-dimensional beams in dissipative media. Physical Review A, 2008, 77, .	1.0	22
201	Interactions and transformations of dissipative optical bullets. , 2007, , .		0
202	Vibrating temporal soliton pairs. , 2007, , .		0
203	Creeping solitons in dissipative systems and their bifurcations. Physical Review E, 2007, 76, 016607.	0.8	42
204	Two-dimensional beams of dissipative antisolitons. , 2007, , .		0
205	Multiplicity of soliton transformations in the vicinity of the boundaries of their existence. Proceedings of SPIE, 2007, , .	0.8	0
206	Soliton complexes in dissipative systems: Vibrating, shaking, and mixed soliton pairs. Physical Review E, 2007, 75, 016613.	0.8	90
207	Dissipative solitons for real world optical solitons. , 2007, , .		1
208	Spatiotemporal optical solitons in nonlinear dissipative media: From stationary light bullets to pulsating complexes. Chaos, 2007, 17, 037112.	1.0	56
209	Dissipative solitons with a Lagrangian approach. Optical Fiber Technology, 2007, 13, 91-97.	1.4	43
210	Creeping solitons of the complex Ginzburgâ€“Landau equation with a low-dimensional dynamical system model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 31-36.	0.9	13
211	Vibrating and shaking soliton pairs in dissipative systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 364, 413-416.	0.9	13
212	Dissipative solitons and antisolitons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 454-458.	0.9	15
213	Dissipative solitons and their interactions. Proceedings in Applied Mathematics and Mechanics, 2007, 7, 1130301-1130302.	0.2	1
214	Self-propelled Solitons in Dissipative Systems. , 2007, , .		0
215	Solitons and Antisolitons in Dissipative Systems. , 2007, , .		0
216	Creeping solitons in dissipative systems. , 2006, , .		1

#	Article	IF	Citations
217	Soliton collisions with shape change by intensity redistribution in mixed coupled nonlinear SchrÃ¶dinger equations. Physical Review E, 2006, 73, 026604.	0.8	154
218	Optical bullets and â€œrocketsâ€•in nonlinear dissipative systems and their transformations and interactions. Optics Express, 2006, 14, 4013.	1.7	56
219	‹title›Dissipative temporal solitons in a laser cavity‹/title›. , 2006, 6255, 36.		0
220	Dynamics and interaction of pulses in the modified Manakov model. Optics Communications, 2006, 266, 660-668.	1.0	24
221	Optical bullets and double bullet complexes in dissipative systems. Physical Review E, 2006, 74, 046612.	0.8	34
222	Optical Soliton Molecules in Fiber Lasers. , 2006, , .		1
223	Stationary and Pulsating Dissipative Optical Bullets. , 2006, , .		0
224	Regions of Existence and Transformations of (3+1)-D Dissipative Optical Solitons. , 2006, , .		0
225	Two types of stationary solitons in dissipative systems. , 2006, , .		0
226	Dynamical models for dissipative localized waves of the complex Ginzburg-Landau equation. Physical Review E, 2006, 73, 036621.	0.8	93
227	Exploding soliton and front solutions of the complex cubicâ€“quintic Ginzburgâ€“Landau equation. Mathematics and Computers in Simulation, 2005, 69, 526-536.	2.4	29
228	Bifurcations from stationary to pulsating solitons in the cubicâ€“quintic complex Ginzburgâ€“Landau equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 343, 417-422.	0.9	53
229	Dissipative solitons of the discrete complex cubicâ€“quintic Ginzburgâ€“Landau equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 347, 231-240.	0.9	20
230	Dissipative soliton interactions inside a fiber laser cavity. Optical Fiber Technology, 2005, 11, 209-228.	1.4	85
231	Entrainment of Pulse Modulation Frequency in Fiber Lasers. , 2005, , WC2.		0
232	Composite Solitons Generated by Solid State Passively Mode-Locked Laser. , 2005, , WA5.		0
233	DISSIPATIVE SOLITON PULSATIONS WITH PERIODS BEYOND THE LASER CAVITY ROUND TRIP TIME. Journal of Nonlinear Optical Physics and Materials, 2005, 14, 177-194.	1.1	12
234	Light bullets and dynamic pattern formation in nonlinear dissipative systems. Optics Express, 2005, 13, 9352.	1.7	62

#	Article	IF	Citations
235	Soliton as Strange Attractor: Nonlinear Synchronization and Chaos. Physical Review Letters, 2005, 95, 024101.	2.9	46
236	Boundaries of Existence for Pulsating Solitons in Dissipative Systems. , 2005, , .		0
237	Multiple Solitons in Systems Governed by the Swift-Hohenberg Equation. , 2004, , MC14.		0
238	Bifurcations and multiple-period soliton pulsations in a passively mode-locked fiber laser. Physical Review E, 2004, 70, 066612.	0.8	207
239	Strongly asymmetric soliton explosions. Physical Review E, 2004, 70, 036613.	0.8	64
240	On the solution of multicomponent nonlinear SchrÃ¶dinger equations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 330, 224-229.	0.9	32
241	Group interactions of dissipative solitons in a laser cavity: the case of 2+1. Optics Express, 2004, 12, 3184.	1.7	64
242	Solitons as Strange Attractors. , 2004, , 45-60.		1
243	Chaotic Dissipative Solitons as Strange Attractors. , 2004, , .		0
244	Stability analysis for solitons in planar waveguides, fibres and couplers using Hamiltonian concepts. IEE Proceedings: Optoelectronics, 2003, 150, 519-526.	0.8	6
245	Exploding solitons and Shil'nikov's theorem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 317, 287-292.	0.9	52
246	Exact localized and periodic solutions of the discrete complex Ginzburgâ€“Landau equation. Optics Communications, 2003, 221, 199-209.	1.0	44
247	Exact soliton solutions of the one-dimensional complex Swiftâ€“Hohenberg equation. Physica D: Nonlinear Phenomena, 2003, 176, 44-66.	1.3	33
248	Motion and stability properties of solitons in discrete dissipative structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 314, 126-130.	0.9	23
249	Periodic and optical soliton solutions of the quintic complex Swiftâ€“Hohenberg equation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 397-404.	0.9	14
250	Multiport soliton devices with controllable transmission. Optics Letters, 2003, 28, 908.	1.7	10
251	Quantized separations of phase-locked soliton pairs in fiber lasers. Optics Letters, 2003, 28, 1757.	1.7	128
252	Composite solitons and two-pulse generation in passively mode-locked lasers modeled by the complex quintic Swift-Hohenberg equation. Physical Review E, 2002, 66, 066610.	0.8	48

#	Article	IF	Citations
253	Experimental Evidence for Soliton Explosions. Physical Review Letters, 2002, 88, 073903.	2.9	218
254	Continuous-wave versus pulse regime in a passively mode-locked laser with a fast saturable absorber. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 234.	0.9	47
255	Radiation-related polarization instability of Kerr spatial vector solitons. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 695.	0.9	13
256	Soliton states in a nonlinear directional coupler with intermodal dispersion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 301, 27-34.	0.9	15
257	Intensity limits for stationary and interacting multi-soliton complexes. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 305, 160-166.	0.9	2
258	Pulseâ€“pulse interaction in dispersion-managed fiber systems with nonlinear amplifiers. Optics Communications, 2002, 201, 217-221.	1.0	8
259	Stability criterion for solitons in passively mode-locked fiber lasers. , 2002, , .		0
260	Observation of soliton explosions. , 2002, , .		0
261	Lossless planar X-junctions induced by vector solitons. , 2002, , .		0
262	Pulsating solitons, chaotic solitons, period doubling, and pulse coexistence in mode-locked lasers: Complex Ginzburg-Landau equation approach. Physical Review E, 2001, 63, 056602.	0.8	415
263	Interaction of dual-frequency pulses in passively mode-locked lasers. Optics Communications, 2001, 187, 419-426.	1.0	31
264	Multi-soliton complexes in a sea of radiation modes. Optics Communications, 2001, 195, 293-302.	1.0	11
265	Interrelation between various branches of stable solitons in dissipative systemsâ€“â€“conjecture for stability criterion. Optics Communications, 2001, 199, 283-293.	1.0	36
266	Linear guidance properties of solitonic Y-junction waveguides. Optical and Quantum Electronics, 2001, 33, 19-54.	1.5	0
267	Simultaneous existence of a multiplicity of stable and unstable solitons in dissipative systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 291, 115-123.	0.9	48
268	DÃ©jÃ vu in optics. Nature, 2001, 413, 267-268.	13.7	99
269	Solitons of the Complex Ginzburgâ€”Landau Equation. Springer Series in Optical Sciences, 2001, , 311-341.	0.5	18
270	General Theory of Solitons. , 2001, , 371-395.		13

#	Article	IF	Citations
271	Multisoliton complexes in a sea of radiation modes. , 2001, , .		0
272	Two-parameter two-component solitons in nonlinear directional coupler with intermodal dispersion. , 2001, , .		1
273	Instability of Fast Kerr Solitons in Aigaas Waveguides at 1.55 Microns. , 2001, , 317-320.		0
274	Erupting Solitons in Fiber Lasers. , 2001, , .		0
275	Pulsating solitons, chaotic solitons, period doubling, and pulse coexistence in mode-locked lasers.. , 2001, , .		3
276	Radiation related polarization instability of fast Kerr spatial solitons in slab waveguides. Optics Communications, 2000, 186, 335-341.	1.0	14
277	Multi-soliton complexes. Chaos, 2000, 10, 600-612.	1.0	93
278	Soliton interactions in perturbed nonlinear SchrÃ¶dinger equations. Physical Review E, 2000, 61, 7121-7133.	0.8	10
279	Multisoliton complexes on a background. Physical Review E, 2000, 61, 5893-5899.	0.8	17
280	Pulsating, Creeping, and Erupting Solitons in Dissipative Systems. Physical Review Letters, 2000, 85, 2937-2940.	2.9	353
281	Incoherent Solitons - Properties and Collisions. , 1999, , ThE4.		0
282	BOSE-EINSTEIN CONDENSATION OF ATOMS WITH ATTRACTIVE INTERACTION. International Journal of Modern Physics B, 1999, 13, 625-631.	1.0	49
283	Hamiltonian-versus-energy diagrams in soliton theory. Physical Review E, 1999, 59, 6088-6096.	0.8	71
284	Asymmetric partially coherent solitons in saturable nonlinear media. Physical Review E, 1999, 60, 2377-2380.	0.8	30
285	Collision-induced shape transformations of partially coherent solitons. Physical Review E, 1999, 59, 4654-4658.	0.8	42
286	Coherent and Incoherent Contributions to Multisoliton Complexes. Physical Review Letters, 1999, 83, 4736-4739.	2.9	66
287	Dynamics of quadratic soliton excitation. Optics Communications, 1999, 162, 347-356.	1.0	11
288	Observation of Polarization-Locked Vector Solitons in an Optical Fiber. Physical Review Letters, 1999, 82, 3988-3991.	2.9	219

#	Article	IF	Citations
289	Partially Coherent Solitons on a Finite Background. Physical Review Letters, 1999, 82, 2661-2664.	2.9	200
290	Partially coherent solitons of variable shape in a slow Kerr-like medium: Exact solutions. Physical Review E, 1999, 59, 6079-6087.	0.8	68
291	Coherence and Incoherence in Multi-Soliton Complexes. , 1999, , .		0
292	Partially Coherent Solitons of Variable Shape. Physical Review Letters, 1998, 81, 4632-4635.	2.9	134
293	Phase locking and periodic evolution of solitons in passively mode-locked fiber lasers with a semiconductor saturable absorber. Optics Letters, 1998, 23, 852.	1.7	52
294	Spatial walking solitons in quadratic nonlinear crystals. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1476.	0.9	17
295	Moving fronts for complex Ginzburg-Landau equation with Raman term. Physical Review E, 1998, 58, 6723-6727.	0.8	12
296	Multisoliton Solutions of the Complex Ginzburg-Landau Equation. Physical Review Letters, 1997, 79, 4047-4051.	2.9	371
297	Pulse solutions of the cubic-quintic complex Ginzburg-Landau equation in the case of normal dispersion. Physical Review E, 1997, 55, 4783-4796.	0.8	164
298	Power-dependent polarization dynamics of mixed-mode spatial solitary waves in AlGaAs waveguides. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 3032.	0.9	16
299	Walking vector solitons. Optics Communications, 1997, 138, 105-108.	1.0	15
300	Asymmetrical splitting of higher-order optical solitons induced by quintic nonlinearity. Optics Communications, 1997, 143, 322-328.	1.0	49
301	Multimode structure of bright and dark vector solitons in photorefractive media. Optics Letters, 1996, 21, 782.	1.7	15
302	Manakov Spatial Solitons. Optics and Photonics News, 1996, 7, 30.	0.4	2
303	Soliton interaction in nonequilibrium dynamical systems. Physical Review E, 1996, 53, 6471-6475.	0.8	49
304	Analysis of bifurcations for parabolic nonlinearity optical couplers. Optics Communications, 1996, 124, 95-102.	1.0	7
305	Excitation of vortex solitons in a Gaussian beam configuration. Optics Communications, 1996, 126, 108-112.	1.0	40
306	Influence of the Raman-effect on solitons in optical fibers. Optics Communications, 1996, 131, 260-266.	1.0	50

#	Article	IF	Citations
307	Effect of natural optical activity on the propagation of photorefractive solitons. Optics Communications, 1996, 132, 179-189.	1.0	28
308	A new kind of periodic stationary solution of the cubic Ginzburg-Landau equation. Physica A: Statistical Mechanics and Its Applications, 1996, 233, 801-808.	1.2	3
309	Observation of Manakov Spatial Solitons in AlGaAs Planar Waveguides. Physical Review Letters, 1996, 76, 3699-3702.	2.9	237
310	Three forms of localized solutions of the quintic complex Ginzburg-Landau equation. Physical Review E, 1996, 53, 1931-1939.	0.8	115
311	Singularities and special soliton solutions of the cubic-quintic complex Ginzburg-Landau equation. Physical Review E, 1996, 53, 1190-1201.	0.8	211
312	Self-bending photorefractive solitons. Physical Review E, 1996, 54, 5761-5765.	0.8	60
313	Stationary soliton states in couplers with saturable nonlinearity. Optical and Quantum Electronics, 1995, 27, 193-200.	1.5	9
314	Novel bifurcation phenomena for solitons in nonlinear saturable couplers. Optics Communications, 1995, 116, 411-415.	1.0	9
315	Interactions of solitons with oscillating tails. Optics Communications, 1995, 121, 109-114.	1.0	19
316	Optical memory based on the long-term photon echo phenomenon. Journal of Luminescence, 1995, 66-67, 74-77.	1.5	0
317	Cherenkov radiation emitted by solitons in optical fibers. Physical Review A, 1995, 51, 2602-2607.	1.0	704
318	Stability criterion for stationary bound states of solitons with radiationless oscillating tails. Physical Review E, 1995, 51, 3572-3578.	0.8	56
319	Stationary solitonlike pulses in birefringent optical fibers. Physical Review E, 1995, 51, 3547-3555.	0.8	34
320	Novel Arbitrary-Amplitude Soliton Solutions of the Cubic-Quintic Complex Ginzburg-Landau Equation. Physical Review Letters, 1995, 75, 2320-2323.	2.9	102
321	Soliton interaction and bound states in amplified-damped fiber systems. Optics Letters, 1995, 20, 1970.	1.7	29
322	Stability of spatial solitary waves in quadratic media. Optics Letters, 1995, 20, 2183.	1.7	55
323	Soliton propagation in optical devices with two-component fields: a comparative study. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1100.	0.9	27
324	Dynamics of solitonlike pulse propagation in birefringent optical fibers. Physical Review E, 1994, 49, 5742-5754.	0.8	83

#	Article	IF	Citations
325	Dark soliton pairs in fiber couplers. Optics Communications, 1994, 111, 116-122.	1.0	10
326	Elliptically polarised solitons in birefringent optical fibers. Optics Communications, 1994, 112, 278-282.	1.0	57
327	Propagation dynamics of ultrashort pulses in nonlinear fiber couplers. Physical Review E, 1994, 49, 4519-4529.	0.8	49
328	Generation of a train of solitons with arbitrary phase difference between neighboring solitons. Optics Letters, 1994, 19, 545.	1.7	17
329	Limitations of the variational approach in soliton propagation in nonlinear couplers. Optics Communications, 1993, 103, 410-416.	1.0	17
330	Description of the self-focusing and collapse effects by a modified nonlinear SchrÃ¶dinger equation. Optics Communications, 1993, 101, 223-230.	1.0	35
331	Spatial soliton X-junctions and couplers. Optics Communications, 1993, 100, 186-192.	1.0	61
332	Stability analysis of even and odd waves of symmetric nonlinear planar optical waveguides. Journal of the Optical Society of America B: Optical Physics, 1993, 10, 230.	0.9	30
333	First-order exact solutions of the nonlinear SchrÃ¶dinger equation in the normal-dispersion regime. Physical Review A, 1993, 47, 3213-3221.	1.0	71
334	Does the nonlinear SchrÃ¶dinger equation correctly describe beam propagation?. Optics Letters, 1993, 18, 411.	1.7	107
335	Novel soliton states and bifurcation phenomena in nonlinear fiber couplers. Physical Review Letters, 1993, 70, 2395-2398.	2.9	226
336	Theory of amplification of nonlinear guided waves. Physical Review A, 1993, 47, 2196-2204.	1.0	0
337	Stability of the soliton states in a nonlinear fiber coupler. Physical Review E, 1993, 48, 4710-4715.	0.8	83
338	Generation of a train of three-dimensional optical solitons in a self-focusing medium. Physical Review A, 1993, 47, 1358-1364.	1.0	92
339	Darker-than-black solitons: Dark solitons with total phase shift greater than Ï€. Physical Review E, 1993, 48, 3980-3987.	0.8	34
340	Recurrence and azimuthal-symmetry breaking of a cylindrical Gaussian beam in a saturable self-focusing medium. Physical Review A, 1992, 45, 3168-3175.	1.0	51
341	Amplification of nonlinear waves in a symmetric planar waveguide. Physical Review A, 1992, 45, 2006-2011.	1.0	5
342	Stability of the higher-bound states in a saturable self-focusing medium. Physical Review A, 1991, 44, 636-644.	1.0	127

#	Article	IF	Citations
343	Coexistence of a multiplicity of stable and unstable solitons in fiber lasers. , 0, , .		0
344	Observation of exploding solitons in a modelocked laser. , 0, , .		0
345	Dissipative solutions in discrete systems. , 0, , .		0
346	Composite soliton generation in systems with two peak spectral filtering. , 0, , .		0
347	Generation of interacting pulse pairs in passively mode-locked fiber lasers. , 0, , .		0
348	Soliton pulsations in a fiber laser cavity with periods beyond the round trip time. , 0, , .		0
349	Dissipative soliton interactions in laser systems. , 0, , .		0
350	Dissipative Solitons in the Complex Ginzburg-Landau and Swift-Hohenberg Equations. , 0, , 1-17.		52
351	New analysis of an old instability. SPIE Newsroom, 0, , .	0.1	4
352	Multi-frequency pulsations in mode-locked fiber lasers. , 0, , .		0