

Stefano Trillo

List of Publications by Year in descending order

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332
papers

9,724
citations

44444

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h-index

56606

87
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338
all docs

338
docs citations

338
times ranked

3041
citing authors

#	ARTICLE	IF	CITATIONS
1	Stochastic modulational instability in the nonlinear Schrödinger equation with colored random dispersion. <i>Physical Review A</i> , 2022, 105, .	1.0	2
2	Quadratic Peregrine solitons resonantly radiating without higher-order dispersion. <i>Optics Letters</i> , 2022, 47, 2370.	1.7	14
3	The piston Riemann problem in a photon superfluid. <i>Nature Communications</i> , 2022, 13, .	5.8	8
4	Observation of the Fermi Pasta Ulam recurrences multiple symmetry breakings triggered by optical fiber losses. , 2021, , .		0
5	“Extraordinary” modulation instability in optics and hydrodynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	36
6	Excitation of switching waves in normally dispersive Kerr cavities. <i>Optics Letters</i> , 2021, 46, 2481.	1.7	6
7	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. <i>Frontiers in Physics</i> , 2021, 9, .	1.0	11
8	Stabilization of Unsteady Nonlinear Waves by Phase-Space Manipulation. <i>Physical Review Letters</i> , 2021, 126, 174501.	2.9	11
9	Modulational instability in optical fibers with randomly kicked normal dispersion. <i>Physical Review A</i> , 2021, 103, .	1.0	3
10	Loss induced multiple symmetry breakings in the Fermi Pasta Ulam recurrence process. , 2021, , .		0
11	Doubly periodic solutions of the focusing nonlinear Schrödinger equation: Recurrence, period doubling, and amplification outside the conventional modulation-instability band. <i>Physical Review A</i> , 2020, 101, .	1.0	43
12	Observation of four Fermi-Pasta-Ulam-Tsingou recurrences in an ultra-low-loss optical fiber. <i>Optics Express</i> , 2020, 28, 17773.	1.7	19
13	Resonant radiation from Peregrine solitons. <i>Optics Letters</i> , 2020, 45, 427.	1.7	29
14	Observation of doubly periodic solutions of the nonlinear Schrödinger equation in optical fibers. <i>Optics Letters</i> , 2020, 45, 3757.	1.7	16
15	First Experimental Observation of Four Fermi-Pasta-Ulam- Tsingou Recurrences in an Optical Fiber. , 2020, , .		0
16	Phase-suppressed hydrodynamics of solitons on constant-background plane wave. <i>Physical Review Fluids</i> , 2020, 5, .	1.0	3
17	Real-Time Characterization of Period-Doubling Dynamics in Uniform and Dispersion Oscillating Fiber Ring Cavities. <i>Physical Review X</i> , 2019, 9, .	2.8	14
18	Spatio-Temporal Characterization of the Electric Field of Breathers in an Optical Fiber. , 2019, , .		0

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19	Experimental Validation in Optical Fibers of Multiple Fermi-Pasta-Ulam-Tsingou Recurrences Theory. , 2019, , .		0
20	Dynamics of Photon Fluid Flows Driven by Optical Pistons. , 2019, , .		0
21	Experimental Realization of Riemann Problem in Nonlinear Fiber Optics. , 2019, , .		1
22	Full-field characterization of breather dynamics over the whole length of an optical fiber. Optics Letters, 2019, 44, 763.	1.7	21
23	Quantitative approach to breather pair appearance in nonlinear modulational instability. Optics Letters, 2019, 44, 4275.	1.7	14
24	Experimental characterization of recurrences and separatrix crossing in modulational instability. Optics Letters, 2019, 44, 5426.	1.7	21
25	Shock Waves. , 2019, , 373-419.		1
26	New Insights on Modulation Instability in Optical Fibers. , 2019, , .		0
27	Nonlinear Modulational Instability: Recurrences, Broken Symmetry, and Breathers. , 2019, , .		0
28	Shock Waves. , 2018, , 1-48.		0
29	Fibre multi-wave mixing combs reveal the broken symmetry of Fermiâ€™Pastaâ€™Ulam recurrence. Nature Photonics, 2018, 12, 303-308.	15.6	126
30	Universal Behavior of Modulationally Unstable Media. SIAM Review, 2018, 60, 888-908.	4.2	35
31	Optical fiber analogous of the piston shock problem. , 2018, , .		0
32	Modulation instability in dispersion oscillating fibers. Advances in Optics and Photonics, 2018, 10, 1.	12.1	47
33	Non-invasive distributed characterization in phase and intensity of the nonlinear stage of modulation instability. , 2018, , .		1
34	Auto-modulation versus breathers in the nonlinear stage of modulational instability. Optics Letters, 2018, 43, 5291.	1.7	25
35	Observation of the symmetry breaking of the Fermi Pasta Ulam recurrence in optical fibers. , 2018, , .		0
36	Spatio-temporal observation of the Fermi-Pasta-Ulam recurrence in optical fibers. , 2018, , .		0

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37	Observation of period-doubling dynamics of modulation instability in uniform and dispersion oscillating fiber-ring cavities. , 2018, , .		0
38	Non-destructive phase and intensity distributed measurements of the nonlinear stage of modulation instability in optical fibers. , 2018, , .		0
39	Instabilities in passive dispersion oscillating fiber ring cavities. European Physical Journal D, 2017, 71, 1.	0.6	7
40	Modulation Instability, Four-Wave Mixing and their Applications. , 2017, , 1-33.		0
41	Wave-Breaking and Dispersive Shock Wave Phenomena in Optical Fibers. , 2017, , 325-349.		0
42	Dispersive Dam-Break Flow of a Photon Fluid. Physical Review Letters, 2017, 118, 254101.	2.9	60
43	Emergence of long-range phase coherence in nonlocal fluids of light. Physical Review A, 2017, 95, .	1.0	5
44	Recurrence due to periodic multisoliton fission in the defocusing nonlinear Schrödinger equation. Physical Review E, 2017, 96, 052213.	0.8	2
45	Optical-fluid dark line and X solitary waves in Kerr media. Optical Data Processing and Storage, 2017, 3, 1-7.	3.3	8
46	Observation of broken symmetry in the modulation instability recurrence. , 2017, , .		0
47	Modulation instability in the weak dispersion regime of a dispersion modulated passive fiber-ring cavity. Optics Express, 2017, 25, 11283.	1.7	11
48	Experimental investigation of dam-breaking problem in optical fibers. , 2017, , .		0
49	Modulation instability in the weak dispersion regime of dispersion oscillating fiber-ring cavities. , 2017, , .		0
50	Emergence of long-range phase coherence in nonlocal nonlinear media. , 2017, , .		0
51	Shock-induced complex phase-space dynamics of strongly turbulent flows. , 2017, , .		0
52	Dynamics of Turing and Faraday instabilities in a longitudinally modulated fiber-ring cavity. Optics Letters, 2017, 42, 435.	1.7	14
53	Spectral broadening of picosecond pulses forming dispersive shock waves in optical fibers. Optics Letters, 2017, 42, 3044.	1.7	23
54	Modulation instability in the weak dispersion regime of dispersion oscillating fiber-ring cavity. , 2017, , .		0

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55	Parametric instabilities in modulated fiber ring cavities. <i>Optics Letters</i> , 2016, 41, 5027.	1.7	24
56	Multiple QPM Resonant Radiations Induced by MI in Dispersion Oscillating Fibers. <i>IEEE Photonics Technology Letters</i> , 2016, 28, 740-743.	1.3	11
57	Dispersive Shock Waves: From Water Waves to Nonlinear Optics. <i>Lecture Notes in Physics</i> , 2016, , 337-367.	0.3	1
58	Experimental Observation and Theoretical Description of Multisoliton Fission in Shallow Water. <i>Physical Review Letters</i> , 2016, 117, 144102.	2.9	51
59	Small dispersion limit of the Kortewegâ€“de Vries equation with periodic initial conditions and analytical description of the Zabuskyâ€“Kruskal experiment. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 137-147.	1.3	21
60	Experimental Generation of Riemann Waves in Optics: A Route to Shock Wave Control. <i>Physical Review Letters</i> , 2016, 117, 073902.	2.9	44
61	Weak Langmuir optical turbulence in a fiber cavity. <i>Physical Review A</i> , 2016, 94, .	1.0	3
62	Competing Turing and Faraday Instabilities in Longitudinally Modulated Passive Resonators. <i>Physical Review Letters</i> , 2016, 116, 143901.	2.9	61
63	Heteroclinic Structure of Parametric Resonance in the Nonlinear SchrÃ¶dinger Equation. <i>Physical Review Letters</i> , 2016, 117, 013901.	2.9	25
64	Shock wave generation triggered by a weak background in optical fibers. <i>Optics Letters</i> , 2016, 41, 2656.	1.7	34
65	Observation of dispersive shock waves developing from initial depressions in shallow water. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 276-284.	1.3	44
66	Incoherent shock waves in long-range optical turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2016, 333, 310-322.	1.3	12
67	Spatiotemporal optical dark X solitary waves. <i>Optics Letters</i> , 2016, 41, 5571.	1.7	25
68	Observation of the breaking of a pulse on a weak background in optical fibers. , 2016, , .		0
69	Giant collective incoherent shock waves in strong turbulence. , 2016, , .		0
70	The Inviscid Burgersâ€™ Equation in Nonlinear Fiber Optics. , 2016, , .		0
71	Giant collective incoherent shock waves in strongly nonlinear turbulent flows. , 2016, , .		0
72	Inviscid Burgersâ€™ Equation and Riemann Waves in Optics. , 2016, , .		0

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73	Heteroclinic Structure of Parametric Resonance in Fibers with Periodic Dispersion. , 2016, , .		0
74	Ballistic dispersive shock waves in optical fibers. , 2016, , .		0
75	Experimental Observation of Inviscid Burgersâ€™ Equation Dynamics in Nonlinear Fiber Optics. , 2016, , .		0
76	Roundtrip-to-roundtrip evolution of Faraday and Turing instabilities in dispersion oscillating fiber ring resonators. , 2016, , .		0
77	Nonlinear Stage of Modulation Instability in Dispersion Oscillating Fibers. , 2016, , .		0
78	Optimal frequency conversion in the nonlinear stage of modulation instability. Optics Express, 2015, 23, 30861.	1.7	26
79	Modulational instability in dispersion-kicked optical fibers. Physical Review A, 2015, 92, .	1.0	9
80	Hybrid IIIâ€“V semiconductor/silicon three-port filter on 1D-PhC wire. Optical and Quantum Electronics, 2015, 47, 1949-1963.	1.5	0
81	Parametric excitation of multiple resonant radiations from localized wavepackets. Scientific Reports, 2015, 5, 9433.	1.6	55
82	From coherent shocklets to giant collective incoherent shock waves in nonlocal turbulent flows. Nature Communications, 2015, 6, 8131.	5.8	44
83	Topographic optical fibers: a new degree of freedom in nonlinear optics. , 2015, , .		0
84	Experimental demonstration of new modulational instability bands in a dispersion oscillating fiber cavity. , 2015, , .		0
85	Topographic optical fibers: a new degree of freedom in nonlinear optics. , 2015, , .		0
86	Radiative effects driven by shock waves in cavity-less four-wave mixing combs. Optics Letters, 2014, 39, 5760.	1.7	19
87	Dispersive radiation induced by shock waves in passive resonators. Optics Letters, 2014, 39, 5626.	1.7	33
88	Zero focusing via competing nonlinearities in beta-barium-borate crystals. Optics Letters, 2014, 39, 925.	1.7	2
89	Modulational instability in dispersion oscillating fiber ring cavities. Optics Letters, 2014, 39, 4200.	1.7	48
90	Impact of self-steepening on incoherent dispersive spectral shocks and collapse-like spectral singularities. Physical Review A, 2014, 90, .	1.0	4

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91	Resonant radiation shed by dispersive shock waves. <i>Physical Review A</i> , 2014, 89, .	1.0	67
92	Observation of Optical Undular Bores in Multiple Four-Wave Mixing. <i>Physical Review X</i> , 2014, 4, .	2.8	49
93	Incoherent Dispersive Shocks and Spectral Collapse. , 2014, , .		0
94	Wave instabilities in nonlinear Schrödinger systems with non vanishing background. , 2014, , .		0
95	Modulational instability due to cross-phase modulation versus multiple four-wave mixing: the normal dispersion regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 551.	0.9	19
96	Radiating Dissipative-Dispersive Shock Waves via Bistability in Passive Microcavities. , 2014, , .		0
97	Mechanism of wave breaking from a vacuum point in the defocusing nonlinear Schrödinger equation. <i>Physical Review E</i> , 2014, 89, 023202.	0.8	17
98	Dispersive wave-breaking in coherently driven passive cavities. <i>Optics Letters</i> , 2014, 39, 2475.	1.7	15
99	Wave instabilities in the presence of non vanishing background in nonlinear Schrödinger systems. <i>Scientific Reports</i> , 2014, 4, 7285.	1.6	4
100	Temporal dynamics of incoherent nonlinear waves. , 2014, , .		0
101	Modulational instability and pulse generation in dispersion oscillating fiber ring cavities. , 2014, , .		1
102	Tailored design of WDM filters in BCB embedded PhC membranes. <i>Optical and Quantum Electronics</i> , 2013, 45, 329-342.	1.5	5
103	Negative-frequency dispersive wave generation in quadratic media. <i>Physical Review A</i> , 2013, 88, .	1.0	12
104	Incoherent Dispersive Shocks in the Spectral Evolution of Random Waves. <i>Physical Review Letters</i> , 2013, 111, 113902.	2.9	42
105	100-Gb/s Wavelength Division Demultiplexing Using a Photonic Crystal Four-Channel Drop Filter. <i>IEEE Photonics Technology Letters</i> , 2013, 25, 813-816.	1.3	19
106	Wavelength conversion at 10 GHz using a two-color photonic crystal gate. , 2013, , .		0
107	Heterodyne pump probe measurements of nonlinear dynamics in an indium phosphide photonic crystal cavity. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	29
108	Nonlinear Wave Transport in Disordered Photonic Crystal Waveguides. , 2013, , .		0

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109	Spectral dynamics of incoherent waves with a noninstantaneous nonlinear response. Optics Letters, 2013, 38, 2972.	1.7	8
110	Optimizing pump-probe switching ruled by free-carrier dispersion. Optics Express, 2013, 21, 15859.	1.7	3
111	Low-power spontaneous oscillations driven by band-filling effect. Optics Letters, 2013, 38, 4366.	1.7	2
112	Even harmonic pulse train generation by cross-polarization-modulation seeded instability in optical fibers. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 99.	0.9	18
113	Cross-phase modulational instability induced by Raman scattering in highly birefringent fiber. Optics Letters, 2013, 38, 5327.	1.7	6
114	Competing wave-breaking mechanisms in quadratic media. Optics Letters, 2013, 38, 1648.	1.7	11
115	Resonant Radiation Induced by Wave-breaking. , 2013, , .		0
116	Negative-frequency resonant radiation in quadratic media. , 2013, , .		0
117	All-optical signal processing at 10â€™GHz using a photonic crystal molecule. Applied Physics Letters, 2013, 103, .	1.5	24
118	Competing wave-breaking mechanisms in second harmonic generation. , 2013, , .		0
119	Dispersive wave emission from wave breaking. Optics Letters, 2013, 38, 3815.	1.7	67
120	Observation of modulationally unstable multi-wave mixing. Optics Letters, 2013, 38, 181.	1.7	12
121	Robustness of gap-solitons in disordered photonic crystal waveguides. , 2013, , .		0
122	Wave instabilities in Nonlinear Schrödinger Systems with nonvanishing background. , 2013, , .		0
123	The Whitham approach to dispersive shocks in systems with cubicâ€™quintic nonlinearities. New Journal of Physics, 2012, 14, 093019.	1.2	16
124	Double shock dynamics induced by the saturation of defocusing nonlinearities. Optics Letters, 2012, 37, 1634.	1.7	6
125	Multi-shocks generation and collapsing instabilities induced by competing nonlinearities. , 2012, , .		0
126	Dispersive shock waves in quadratic media. , 2012, , .		0

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127	Measurement of scaling laws for shock waves in thermal nonlocal media. Optics Letters, 2012, 37, 2325.	1.7	31
128	Blue Self-Frequency Shift of Slow Solitons and Radiation Locking in a Line-Defect Waveguide. Physical Review Letters, 2012, 109, 093901.	2.9	40
129	Wavelength Division Demultiplexing and Crosstalk Assessment of a Photonic Crystal Filter. IEEE Photonics Technology Letters, 2012, 24, 2109-2111.	1.3	3
130	Temporal Gap Solitons and All-Optical Control of Group Delay in Line-Defect Waveguides. Physical Review Letters, 2012, 109, 163902.	2.9	9
131	Crossover dynamics of dispersive shocks in Bose-Einstein condensates characterized by two- and three-body interactions. Physical Review A, 2012, 85, .	1.0	13
132	Dispersive shock waves in phase-mismatched second-harmonic generation. Optics Letters, 2012, 37, 1082.	1.7	22
133	High-speed photodetectors in a photonic crystal platform. , 2012, , .		1
134	Nonlinear propagation below cut-off in line-defect waveguides. , 2012, , .		0
135	Four-wave mixing instabilities in telecom fibers. , 2012, , .		0
136	Numerical modeling in photonic crystals integrated technology: The COPERNICUS Project. , 2011, , .		0
137	Coupling between PhC membrane and lensed fiber: Simulations and measurements. , 2011, , .		0
138	Time-reversal focusing of an expanding soliton gas in disordered replicas. Physical Review A, 2011, 83, .	1.0	20
139	Bistability and instability of dark-antidark solitons in the cubic-quintic nonlinear Schrödinger equation. Physical Review A, 2011, 84, .	1.0	36
140	Collective modulation instability of multiple four-wave mixing. Optics Letters, 2011, 36, 1999.	1.7	14
141	Oscillatory dynamics in nanocavities with noninstantaneous Kerr response. Physical Review A, 2011, 84, .	1.0	31
142	Self-pulsing driven by two-photon absorption in semiconductor nanocavities. Physical Review A, 2011, 83, .	1.0	60
143	Control of dispersive shock dynamics developing from dark waveforms. , 2010, , .		0
144	Hydrodynamic instability of multiple four-wave mixing. Optics Letters, 2010, 35, 3967.	1.7	23

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145	Control of gradient catastrophes developing from dark beams. <i>Optics Letters</i> , 2010, 35, 4217.	1.7	16
146	Temporal dynamics of nonlinear switching in GaAs photonic-crystal-based devices. , 2010, , .		0
147	Observation of a Gradient Catastrophe Generating Solitons. <i>Physical Review Letters</i> , 2009, 102, 083902.	2.9	136
148	Envelope localized waves of the conical type in linear normally dispersive media. <i>Physical Review A</i> , 2009, 79, .	1.0	23
149	X-Waves in Self-Focusing of Ultra-Short Pulses. <i>Topics in Applied Physics</i> , 2009, , 439-456.	0.4	4
150	Comparative Analysis of a Planar Slotted Microdisk Resonator. <i>Journal of Lightwave Technology</i> , 2009, 27, 4009-4016.	2.7	7
151	Suppression of transverse instabilities of dark solitons and their dispersive shock waves. <i>Physical Review A</i> , 2009, 80, .	1.0	43
152	An FDTD approach to the simulation of quantum-well infrared photodetectors. <i>Optical and Quantum Electronics</i> , 2008, 40, 1085-1090.	1.5	5
153	Two-dimensional envelope localized waves in the anomalous dispersion regime. <i>Optics Letters</i> , 2008, 33, 1117.	1.7	27
154	Three-dimensional analysis of cylindrical microresonators based on the aperiodic Fourier modal method. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008, 25, 667.	0.8	18
155	Gas of dark solitons generated by an optical shock. , 2008, , .		0
156	Accurate modelling of quantum well infrared photodetectors by FDTD. , 2008, , .		0
157	Free-Energy Transition in a Gas of Noninteracting Nonlinear Wave Particles. <i>Physical Review Letters</i> , 2008, 101, 044101.	2.9	46
158	Tunneling Mediated by 2D+1 Conical Waves in a 1D Lattice. <i>Physical Review Letters</i> , 2008, 101, 013601.	2.9	2
159	Self-transparency mediated by X-waves in Bragg gratings. , 2007, , .		0
160	Non Local Solitons and Filamentation in Soft Matter. , 2007, , .		0
161	<title>Self pulsing due to backward second-harmonic generation in engineered PPLN: the role of the induced cubic nonlinearity</title>. , 2007, , .		0
162	Monolithic fully integrated programmable micro-diffraction grating based on electro-optical materials. , 2007, , .		3

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163	Shocks in Nonlocal Media. Physical Review Letters, 2007, 99, 043903.	2.9	194
164	Self-pulsing and bistability in nonlinear Bragg gratings. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2229.	0.9	19
165	Mode-locked X-wave lasers. Optics Express, 2007, 15, 16022.	1.7	16
166	Time-domain approach to parametric conversion: A comparative study on the impact of numerical dispersion. Optical and Quantum Electronics, 2007, 38, 827-841.	1.5	2
167	Waveguide arrays for mode-locking X-wave lasers. , 2007, , .		0
168	Nonlocal description of X waves in quadratic nonlinear materials. Physical Review E, 2006, 73, 036614.	0.8	45
169	Effect of field enhancement due to the coupling between a cellular phone and metallic eyeglasses. Microwave and Optical Technology Letters, 2006, 48, 63-65.	0.9	4
170	Modeling of spatial gap solitons in nonlinear waveguide arrays. Microwave and Optical Technology Letters, 2006, 48, 2591-2595.	0.9	1
171	Bistability, limiting, and self-pulsing in backward second-harmonic generation: a time-domain approach. Journal of Optics, 2006, 8, S494-S501.	1.5	15
172	Laser Beam Filamentation in Fractal Aggregates. Physical Review Letters, 2006, 97, 123903.	2.9	25
173	FDTD modeling of conversion and separatrix crossing in second harmonic generation. , 2005, , WB5.		0
174	Nonlinear X waves. , 2005, , .		0
175	Optical Spatial Solitons in Soft Matter. Physical Review Letters, 2005, 95, 183902.	2.9	97
176	Self-pulsing instabilities in backward parametric wave mixing. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2178.	0.9	14
177	Pulse train generation by counterpropagating second order nonlinear interactions. , 2005, , .		0
178	SOLITONS Temporal Solitons. , 2005, , 72-81.		0
179	Instabilities of four-wave mixing. , 2005, , .		0
180	Observation of Resonance Soliton Trapping due to a Photoinduced Gap in Wave Number. Physical Review Letters, 2004, 92, 223902.	2.9	21

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181	Spatiotemporal three-dimensional mapping of nonlinear X waves. Physical Review E, 2004, 69, 026607.	0.8	36
182	Nonspreading Wave Packets in Three Dimensions Formed by an Ultracold Bose Gas in an Optical Lattice. Physical Review Letters, 2004, 92, 120404.	2.9	70
183	Transfer matrix and full Maxwell time domain analysis of nonlinear gratings. Optical and Quantum Electronics, 2004, 36, 189-199.	1.5	5
184	Three-dimensional localized waves of the X-type in periodic media. , 2004, , .		0
185	Resonant trapping in a photo-induced gap in wave-number: experiment and theory. , 2004, , .		0
186	Nonlinear Electromagnetic X Waves. Physical Review Letters, 2003, 90, 170406.	2.9	209
187	Spontaneous X waves: numerical experiments. , 2003, , .		0
188	Spontaneously Generated X-Shaped Light Bullets. Physical Review Letters, 2003, 91, 093904.	2.9	213
189	Paraxial envelope X waves. Optics Letters, 2003, 28, 1090.	1.7	44
190	X waves generated at the second harmonic. Optics Letters, 2003, 28, 1251.	1.7	37
191	Impact of wave-envelope dynamics on beam and pulse break up in $X^{(2)}$ media. , 2003, , .		0
192	Nonlinear X waves in second-harmonic generation: Experimental results. Physical Review E, 2003, 68, 026610.	0.8	29
193	Spatial versus Temporal Deterministic Wave Breakup of Nonlinearly Coupled Light Waves. Physical Review Letters, 2003, 91, 143905.	2.9	15
194	Bistability in a non linear grating: a FD-TD approach. , 2003, , .		0
195	Impact of wave-envelope dynamics on beam and pulse break up in $X^{(2)}$ media. , 2003, , .		0
196	Self-transparency and Localization in Gratings with Quadratic Nonlinearity. Springer Series in Photonics, 2003, , 73-105.	0.8	1
197	GAP SOLITONS AND SLOW LIGHT. Journal of Nonlinear Optical Physics and Materials, 2002, 11, 239-259.	1.1	9
198	Colored conical emission by means of second-harmonic generation. Optics Letters, 2002, 27, 1451.	1.7	60

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199	Effective lensing effects in parametric frequency conversion. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 852.	0.9	53
200	Full vectorial BPM modeling of Index-Guiding Photonic Crystal Fibers and Couplers. Optics Express, 2002, 10, 54.	1.7	128
201	Optical solitons due to quadratic nonlinearities: from basic physics to futuristic applications. Physics Reports, 2002, 370, 63-235.	10.3	379
202	Theory of Gap Solitons in Short Period Gratings. Lecture Notes in Physics, 2002, , 185-206.	0.3	0
203	Nonrecursive multiple shock formation via four-wave mixing: theory and experiment. , 2002, , .		0
204	Temporal Modulational Instability Controlled by Pulse-Envelope Dynamics. , 2002, , .		0
205	All-optical signal reshaping by means of four-wave mixing in optical fibers. IEEE Photonics Technology Letters, 2001, 13, 142-144.	1.3	88
206	Bifurcation of gap solitons through catastrophe theory. Physical Review E, 2001, 64, 036617.	0.8	37
207	QUADRATIC SIMULTONS IN LINEAR AND NONLINEAR PHOTONIC BANDGAPS. Journal of Nonlinear Optical Physics and Materials, 2001, 10, 197-208.	1.1	1
208	Focusing versus Defocusing Nonlinearities due to Parametric Wave Mixing. Physical Review Letters, 2001, 87, .	2.9	40
209	Parametric Solitons in Passive Structures with Feedback. Springer Series in Optical Sciences, 2001, , 359-393.	0.5	4
210	Quadratic Bragg Solitons. , 2001, , 267-291.		0
211	Asymmetrical formation of parametric solitons. , 2001, , .		1
212	Multistability, homoclinic clamping, and chaos in nonlinear quadratic distributed feedback systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 267, 319-325.	0.9	8
213	PARAMETRIC OPTICAL SOLITONS IN BRAGG RESONANT MEDIA. Journal of Nonlinear Optical Physics and Materials, 2000, 09, 69-78.	1.1	0
214	Strong four-photon conversion regime of cross-phase-modulation-induced modulational instability. Physical Review E, 2000, 61, 3139-3150.	0.8	29
215	Energy Localization in Photonic Crystals of a Purely Nonlinear Origin. Physical Review Letters, 2000, 85, 2502-2505.	2.9	41
216	From parametric gap solitons to chaos by means of second-harmonic generation in Bragg gratings. Chaos, 2000, 10, 590-599.	1.0	25

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217	All-optical signal reshaping via four-wave mixing in optical fibers. IEEE Photonics Technology Letters, 2000, 12, 849-851.	1.3	122
218	Self-sustained trapping mechanism of zero-velocity parametric gap solitons. Physical Review E, 1999, 59, 2467-2470.	0.8	21
219	Curvature dynamics and stability of topological solitons in the optical parametric oscillator. Journal of the Optical Society of America B: Optical Physics, 1999, 16, 1936.	0.9	15
220	Solitons of singly resonant optical parametric oscillators. Optics Letters, 1999, 24, 400.	1.7	45
221	Cavityless oscillation through backward quasi-phase-matched second-harmonic generation. Optics Letters, 1999, 24, 1139.	1.7	28
222	Solitons in Cavities with Quadratic Nonlinearities. , 1999, , 367-384.		0
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