Matteo Conforti

List of Publications by Year
in descending order

205 papers	4,227 citations	145106 33 h-index	145109 60 g-index
205 all docs	205 docs citations	205 times ranked	2450 citing authors

#	Article	IF	Citations
1	Stochastic modulational instability in the nonlinear SchrÃ¶dinger equation with colored random dispersion. Physical Review A, 2022, 105, .	1.0	2
2	Phase-sensitive seeded modulation instability in passive fiber resonators. Communications Physics, 2022, 5, .	2.0	3
3	Experimental investigation of spontaneous and seeded modulation instability competition: route to the thermalization of the Fermi Pasta Ulam Tsingou recurrences. , 2022, , .		0
4	Label-free highly multimodal nonlinear endoscope. Optics Express, 2022, 30, 25020.	1.7	7
5	The piston Riemann problem in a photon superfluid. Nature Communications, 2022, 13, .	5.8	8
6	Observation of the Fermi Pasta Ulam recurrences multiple symmetry breakings triggered by optical fiber losses. , 2021, , .		0
7	Theory of filter-induced modulation instability in driven passive optical resonators. Physical Review A, 2021, 103, .	1.0	8
8	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
9	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
10	Modulational instability in optical fibers with randomly kicked normal dispersion. Physical Review A, 2021, 103, .	1.0	3
11	Loss induced multiple symmetry breakings in the Fermi Pasta Ulam recurrence process. , 2021, , .		0
12	Origin of spontaneous wave mixing processes in multimode GRIN fibers. Optics Express, 2021, 29, 30822.	1.7	4
13	Experimental investigation of short pulse Raman amplification with backward pumping. Optics Letters, 2021, 46, 5019.	1.7	3
14	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
15	Observation of four Fermi-Pasta-Ulam-Tsingou recurrences in an ultra-low-loss optical fiber. Optics Express, 2020, 28, 17773.	1.7	19
16	Observation of doubly periodic solutions of the nonlinear SchrÃ¶dinger equation in optical fibers. Optics Letters, 2020, 45, 3757.	1.7	16
17	First Experimental Observation of Four Fermi-Pasta-Ulam- Tsingou Recurrences in an Optical Fiber. , 2020, , .		0
18	Stationary states and instabilities of a MÃ¶bius fiber resonator. Physical Review Research, 2020, 2, .	1.3	3

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19	Gain-through-loss in nonlinear fibers: Modulation instabilities and tunable frequency combs. , 2020, , .		0
20	Gain-through-filtering enables tuneable frequency comb generation in passive optical resonators. Nature Communications, 2019, 10, 4489.	5.8	21
21	Real-Time Characterization of Period-Doubling Dynamics in Uniform and Dispersion Oscillating Fiber Ring Cavities. Physical Review X, 2019, 9, .	2.8	14
22	Optical Frequency Comb Generation Induced by Gain-Through-Losses Modulation Instability in Passive Optical Cavities. , 2019, , .		0
23	Spatio-Temporal Characterization of the Electric Field of Breathers in an Optical Fiber. , 2019, , .		0
24	Experimental Validation in Optical Fibers of Multiple Fermi-Pasta-Ulam-Tsingou Recurrences Theory. , 2019, , .		0
25	Phase and Power Experimental Study of Seeded Modulation Instability in Passive Fiber Ring Cavities. , 2019, , .		0
26	Dynamics of Photon Fluid Flows Driven by Optical Pistons. , 2019, , .		0
27	Experimental Realization of Riemann Problem in Nonlinear Fiber Optics. , 2019, , .		1
28	Full-field characterization of breather dynamics over the whole length of an optical fiber. Optics Letters, 2019, 44, 763.	1.7	21
29	Quantitative approach to breather pair appearance in nonlinear modulational instability. Optics Letters, 2019, 44, 4275.	1.7	14
30	Experimental characterization of recurrences and separatrix crossing in modulational instability. Optics Letters, 2019, 44, 5426.	1.7	21
31	Emission of Dispersive Waves from Solitons in Axially Varying Optical Fibers. , 2019, , 301-316.		0
32	Shock Waves. , 2019, , 373-419.		1
33	Experimental evidence of gain-through-loss mechanism in passive fiber ring cavities : toward tunable frequency comb generation. , 2019, , .		0
34	New Insights on Modulation Instability in Optical Fibers. , 2019, , .		0
35	Nonlinear Modulational Instability: Recurrences, Broken Symmetry, and Breathers. , 2019, , .		0
36	Dynamics of photon fluid flows driven by optical pistons. , 2019, , .		0

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37	Emission of Dispersive Waves from Solitons in Axially Varying Optical Fibers. , 2018, , 1-16.		0
38	Geometric parametric instability in periodically modulated graded-index multimode fibers. Physical Review A, 2018, 97, .	1.0	28
39	Shock Waves. , 2018, , 1-48.		0
40	Fibre multi-wave mixing combs reveal the broken symmetry of Fermiâ€“Pastaâ€“Ulam recurrence. Nature Photonics, 2018, 12, 303-308.	15.6	126
41	Collision between a dark soliton and a linear wave in an optical fiber. Optics Express, 2018, 26, 23480.	1.7	7
42	Modulation instability in dispersion oscillating fibers. Advances in Optics and Photonics, 2018, 10, 1.	12.1	47
43	Grayness-dependent emission of dispersive waves from dark solitons in optical fibers. Optics Letters, 2018, 43, 1511.	1.7	11
44	Non-invasive distributed characterization in phase and intensity of the nonlinear stage of modulation instability. , 2018, , .		1
45	Auto-modulation versus breathers in the nonlinear stage of modulational instability. Optics Letters, 2018, 43, 5291.	1.7	25
46	Geometric parametric instability in modulated parabolic graded-index fibers. , 2018, , .		0
47	Spatio-temporal observation of the Fermi-Pasta-Ulam recurrence in optical fibers. , 2018, , .		0
48	Observation of period-doubling dynamics of modulation instability in uniform and dispersion oscillating fiber-ring cavities. , 2018, , .		0
49	Efficient modelling of nonlinear propagation in multimode graded-index fibers. , 2018, , .		0
50	The multi-resonant Lugiato-Lefever model. , 2018, , .		0
51	Non-destructive phase and intensity distributed measurements of the nonlinear stage of modulation instability in optical fibers. , 2018, , .		0
52	Instabilities in passive dispersion oscillating fiber ring cavities. European Physical Journal D, 2017, 71, 1.	0.6	7
53	Dispersive Dam-Break Flow of a Photon Fluid. Physical Review Letters, 2017, 118, 254101.	2.9	60
54	Modulation Instability in Periodically Modulated Fibers. , 2017, , 95-113.		0

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55	Parametric instability in a periodic multimode fiber. , 2017, , .		0
56	Progress in nonlinear topographic optical fibers. , 2017, , .		0
57	Observation of broken symmetry in the modulation instability recurrence. , 2017, , .		0
58	Modulational instabilities in the weak normal dispersion region of uniform fiber ring cavities. , 2017, , .		0
59	Modulation instability in the weak dispersion regime of a dispersion modulated passive fiber-ring cavity. Optics Express, 2017, 25, 11283.	1.7	11
60	Longitudinal soliton tunneling in optical fiber. Optics Letters, 2017, 42, 2350.	1.7	10
61	Multi-resonant Lugiatoâ€“Lefever model. Optics Letters, 2017, 42, 3666.	1.7	12
62	Experimental investigation of dam-breaking problem in optical fibers. , 2017, , .		0
63	Modulation instability in the weak dispersion regime of dispersion oscillating fiber-ring cavities. , 2017, , .		0
64	Longitudinal soliton pure tunneling in optical fiber. , 2017, , .		0
65	Dynamics of Turing and Faraday instabilities in a longitudinally modulated fiber-ring cavity. Optics Letters, 2017, 42, 435.	1.7	14
66	Spectral broadening of picosecond pulses forming dispersive shock waves in optical fibers. Optics Letters, 2017, 42, 3044.	1.7	23
67	Modulation instability in the weak normal dispersion region of passive fiber ring cavities. Optics Letters, 2017, 42, 3730.	1.7	13
68	Fast and accurate modeling of nonlinear pulse propagation in graded-index multimode fibers. Optics Letters, 2017, 42, 4004.	1.7	62
69	Modulation instability in the weak dispersion regime of dispersion oscillating fiber-ring cavity. , 2017, , .		0
70	Parametric instabilities in modulated fiber ring cavities. Optics Letters, 2016, 41, 5027.	1.7	24
71	Interactions between solitons and dispersive waves in photonic crystal fibers. , 2016, , .		0
72	Optical Dark Rogue Wave. Scientific Reports, 2016, 6, 20785.	1.6	113

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73	Efficiency of four-wave mixing between orthogonally polarized linear waves and solitons in a birefringent fiber. Physical Review A, 2016, 94, .	1.0	14
74	Emission of dispersive waves from a train of dark solitons in optical fibers. Optics Letters, 2016, 41, 2454.	1.7	21
75	Multiple QPM Resonant Radiations Induced by MI in Dispersion Oscillating Fibers. IEEE Photonics Technology Letters, 2016, 28, 740-743.	1.3	11
76	Hydrodynamic and Optical Waves: A Common Approach for Unidimensional Propagation. Lecture Notes in Physics, 2016, , 1-22.	0.3	4
77	Dispersive Shock Waves: From Water Waves to Nonlinear Optics. Lecture Notes in Physics, 2016, , 337-367.	0.3	1
78	Competing Turing and Faraday Instabilities in Longitudinally Modulated Passive Resonators. Physical Review Letters, 2016, 116, 143901.	2.9	61
79	Heteroclinic Structure of Parametric Resonance in the Nonlinear SchrÃ¶dinger Equation. Physical Review Letters, 2016, 117, 013901.	2.9	25
80	Shock wave generation triggered by a weak background in optical fibers. Optics Letters, 2016, 41, 2656.	1.7	34
81	Solitonization of a dispersive wave. Optics Letters, 2016, 41, 1412.	1.7	17
82	Observation of the breaking of a pulse on a weak background in optical fibers. , 2016, , .		0
83	Conversion efficiency of vector scattering between solitons and dispersive waves. , 2016, , .		0
84	Transformation of a dispersive wave into a fundamental soliton. , 2016, , .		0
85	Observation of Turing and Faraday instabilities in a bistable passive resonator. , 2016, , .		0
86	Heteroclinic Structure of Parametric Resonance in Fibers with Periodic Dispersion. , 2016, , .		0
87	Roundtrip-to-roundtrip evolution of Faraday and Turing instabilities in dispersion oscillating fiber ring resonators. , 2016, , .		0
88	Nonlinear Stage of Modulation Instability in Dispersion Oscillating Fibers. , 2016, , .		0
89	Optimal frequency conversion in the nonlinear stage of modulation instability. Optics Express, 2015, 23, 30861.	1.7	26
90	Optical event horizons from the collision of a soliton and its own dispersive wave. Physical Review A, 2015, 92, .	1.0	36

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91	Optical rogue waves in parametric three-wave mixing and coherent stimulated scattering. Physical Review A, 2015, 92, .	1.0	36
92	Polarization modulation instability in a Manakov fiber system. Physical Review A, 2015, 92, .	1.0	61
93	Modulational instability in dispersion-kicked optical fibers. Physical Review A, 2015, 92, .	1.0	9
94	Turbulent dynamics of an incoherently pumped passive optical fiber cavity: Quasisolitons, dispersive waves, and extreme events. Physical Review A, 2015, 91, .	1.0	28
95	Baseband modulation instability as the origin of rogue waves. Physical Review A, 2015, 91, .	1.0	150
96	Modulation instability in amplitude modulated dispersion oscillating fibers. Optics Express, 2015, 23, 3869.	1.7	19
97	Parametric excitation of multiple resonant radiations from localized wavepackets. Scientific Reports, 2015, 5, 9433.	1.6	55
98	Bouncing of a dispersive wave in a solitonic cage. Optics Letters, 2015, 40, 3320.	1.7	40
99	Observation of the stepwise blue shift of a dispersive wave preceding its trapping by a soliton. Optics Express, 2015, 23, 16595.	1.7	21
100	Soliton annihilation into a polychromatic dispersive wave. Optics Letters, 2015, 40, 2142.	1.7	7
101	Topographic optical fibers: a new degree of freedom in nonlinear optics. , 2015, , .		0
102	Experimental demonstration of new modulational instability bands in a dispersion oscillating fiber cavity. , 2015, , .		0
103	Topographic optical fibers: a new degree of freedom in nonlinear optics. , 2015, , .		0
104	Dynamics of cascaded resonant radiations in a dispersion-varying optical fiber. Optica, 2014, 1, 243.	4.8	37
105	Radiative effects driven by shock waves in cavity-less four-wave mixing combs. Optics Letters, 2014, 39, 5760.	1.7	19
106	Dispersive radiation induced by shock waves in passive resonators. Optics Letters, 2014, 39, 5626.	1.7	33
107	Vector Rogue Waves and Modulation Instability in the Defocusing Regime. , 2014, , .		0
108	Zero focusing via competing nonlinearities in beta-barium-borate crystals. Optics Letters, 2014, 39, 925.	1.7	2

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109	Manakov Polarization Modulation Instability in Normal Dispersion Optical Fiber. , 2014, , .		1
110	Exact cascading nonlinearity in quasi-phase-matched quadratic media. Optics Letters, 2014, 39, 2427.	1.7	5
111	Generalized description of spectral incoherent solitons. Optics Letters, 2014, 39, 4192.	1.7	10
112	Modulational instability in dispersion oscillating fiber ring cavities. Optics Letters, 2014, 39, 4200.	1.7	48
113	Emission of multiple dispersive waves from a single Raman-shifting soliton in an axially-varying optical fiber. Optics Express, 2014, 22, 25673.	1.7	17
114	Resonant radiation shed by dispersive shock waves. Physical Review A, 2014, 89, .	1.0	67
115	Interaction between positive and negative frequencies in nonlinear optics. , 2014, , .		0
116	Observation of Manakov polarization modulation instability in the normal dispersion regime of randomly birefringent telecom optical fiber. , 2014, , .		1
117	Radiating Dissipative-Dispersive Shock Waves via Bistability in Passive Microcavities. , 2014, , .		0
118	Vector Rogue Waves and Baseband Modulation Instability in the Defocusing Regime. Physical Review Letters, 2014, 113, 034101.	2.9	302
119	Twin-beam parametric processes in nonlinear photonic crystals. , 2014, , .		0
120	Disentangling electrons and lattice nonlinear optical response in metal-dielectric Bragg filters. Physical Review B, 2014, 89, .	1.1	17
121	Broadband parametric processes in Ï‡^(2) nonlinear photonic crystals. Optics Letters, 2014, 39, 3457.	1.7	11
122	Topographic optical fibers: new perspectives in guided optics. , 2014, , .		0
123	Broadband parametric processes in quadratic nonlinear photonic crystals. , 2014, , .		0
124	Modulational instability and pulse generation in dispersion oscillating fiber ring cavities. , 2014, , .		1
125	Modelling Of Broadband Electric Field Propagation In Nonlinear Dielectric Media. , 2014, , .		0
126	Ultrafast nonlinear dynamics of surface plasmon polaritons in gold nanowires due to the intrinsic nonlinearity of metals. New Journal of Physics, 2013, 15, 013033.	1.2	99

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127	Negative-frequency dispersive wave generation in quadratic media. Physical Review A, 2013, 88, .	1.0	12
128	Ultrafast Optical Mapping of Nonlinear Plasmon Dynamics in Cu_{2â€“x}Se Nanoparticles. Journal of Physical Chemistry Letters, 2013, 4, 3337-3344.	2.1	47
129	Discrete localized modes in binary waveguide arrays. , 2013, , .		2
130	Rogue Waves Emerging from the Resonant Interaction of Three Waves. Physical Review Letters, 2013, 111, 114101.	2.9	189
131	Darkâ€“antidark solitons in waveguide arrays with alternating positiveâ€“negative couplings. Optics Communications, 2013, 297, 125-128.	1.0	9
132	Extreme high-intensity and ultrabroadband interactions in anisotropic Î²-BaB_2O_4 crystals. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1041.	0.9	14
133	Interaction between optical fields and their conjugates in nonlinear media. Optics Express, 2013, 21, 31239.	1.7	44
134	Competing wave-breaking mechanisms in quadratic media. Optics Letters, 2013, 38, 1648.	1.7	11
135	Resonant Radiation Induced by Wave-breaking. , 2013, , .		0
136	Broadly tunable femtosecond near- and mid-IR source by direct pumping of an OPA with a 417 MHz Yb:KGW oscillator. Optics Express, 2013, 21, 11516.	1.7	30
137	Negative-frequency resonant radiation in quadratic media. , 2013, , .		0
138	Broadly-tunable near- and mid-IR source by direct pumping of an OPA with a 42 MHz femtosecond multi-Watt Yb:KGW oscillator. , 2013, , .		0
139	Competing wave-breaking mechanisms in second harmonic generation. , 2013, , .		0
140	Rogue waves of the vector nonlinear Schrödinger equations. , 2013, , .		0
141	Dispersive wave emission from wave breaking. Optics Letters, 2013, 38, 3815.	1.7	67
142	Ultrafast interband nonlinear dynamics of surface plasmon polaritons in gold nanowires. , 2013, , .		0
143	Tunable light source from large band conversion of continuum in a quadratic crystal. Laser Physics Letters, 2012, 9, 359-362.	0.6	4
144	Dispersive shock waves in quadratic media. , 2012, , .		0

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145	Multistep quadratic cascading in broadband optical parametric generation. Optics Letters, 2012, 37, 1727.	1.7	12
146	Polarization Rogue Waves in Optical Communication Systems. , 2012, , .		0
147	Modulational stability and gap solitons of gapless systems: Continuous versus discrete limits. Physical Review A, 2012, 85, .	1.0	10
148	Real-time optical mapping of the dynamics of nonthermal electrons in thin gold films. Physical Review B, 2012, 86, .	1.1	78
149	Derivation of third-order nonlinear susceptibility of thin metal films as a delayed optical response. Physical Review B, 2012, 85, .	1.1	71
150	Dispersive shock waves in phase-mismatched second-harmonic generation. Optics Letters, 2012, 37, 1082.	1.7	22
151	Modelling of supercontinuum generation in quadratic crystals. , 2012, , .		0
152	Second and third order susceptibilities mixing for supercontinuum generation and shaping. Optical Fiber Technology, 2012, 18, 283-289.	1.4	15
153	Solutions of the Vector Nonlinear SchrÃ¶dinger Equations: Evidence for Deterministic Rogue Waves. Physical Review Letters, 2012, 109, 044102.	2.9	473
154	Quadratic Cascading Effects in Broadband Optical Parametric Generation. , 2012, , .		0
155	Theory and experiments on multistep parametric processes in nonlinear optics. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 892.	0.9	11
156	Complex dispersion relation of a double chain of lossy metal nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1019.	0.9	9
157	Modeling of ultrabroadband and single-cycle phenomena in anisotropic quadratic crystals. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1231.	0.9	18
158	Soliton triads ensemble in frequency conversion: from inverse scattering theory to experimental observation. Optics Express, 2011, 19, 13192.	1.7	2
159	Plasmon Dynamics in Colloidal Cu_{2â€“x}Se Nanocrystals. Nano Letters, 2011, 11, 4711-4717.	4.5	158
160	Energy localization and transport in binary waveguide arrays. Physical Review A, 2011, 83, .	1.0	37
161	Modulational instability of dark solitons in three wave resonant interaction. Physica D: Nonlinear Phenomena, 2011, 240, 1362-1369.	1.3	12
162	Soliton dynamics in velocity matched ultrafast frequency conversion processes. European Physical Journal D, 2011, 64, 115-118.	0.6	2

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163	The Three-Wave Resonant Interaction Equations: Spectral and Numerical Methods. Letters in Mathematical Physics, 2011, 96, 367-403.	0.5	15
164	Mode-locking operation of a flash-lamp-pumped Nd:YAG laser at 1.064Âµm with Zakharov-Manakov solitons. Laser Physics Letters, 2011, 8, 795-798.	0.6	3
165	A finite element aided tool for the design of microwave resonant sensors. , 2011, , .		0
166	Light propagation in nonuniform plasmonic subwavelength waveguide arrays. Optics Communications, 2010, 283, 1161-1168.	1.0	10
167	Frequency Conversion Based on Three-Wave Parametric Solitons. , 2010, , .		0
168	Velocity-Locked Solitary Waves in Quadratic Media. Physical Review Letters, 2010, 104, 113902.	2.9	36
169	Nonlinear envelope equation for broadband optical pulses in quadratic media. Physical Review A, 2010, 81, .	1.0	78
170	Dispersive properties of linear chains of lossy metal nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1576.	0.9	34
171	Ultrabroadband Optical Phenomena in Quadratic Nonlinear Media. IEEE Photonics Journal, 2010, 2, 600-610.	1.0	44
172	Arbitrarily shaped picosecond pulses by spectral compression of femtosecond pulses in engineered quadratic media. , 2009, , .		0
173	Synthesis of picosecond pulses by spectral compression and shaping of femtosecond pulses in engineered quadratic nonlinear media. Optics Letters, 2009, 34, 241.	1.7	25
174	Frequency Generation and Solitonic Decay in ThreeWave Interactions. Optics Express, 2009, 17, 13889.	1.7	15
175	Synthesis and shaping of picosecond pulses by frequency conversion of femtosecond pulses in engineered quadratic media. , 2009, , .		0
176	Spectral shaping of femtosecond pulses in aperiodic quasi-phase-matched gratings. Optics Communications, 2008, 281, 1693-1697.	1.0	7
177	Subwavelength diffraction management. Optics Letters, 2008, 33, 2662.	1.7	45
178	Pulse shaping via Backward Second Harmonic Generation. Optics Express, 2008, 16, 2115.	1.7	16
179	Three-Wave Trapponic Solitons for Tunable High-Repetition Rate Pulse Train Generation. IEEE Journal of Quantum Electronics, 2008, 44, 542-546.	1.0	19
180	Three-wave Trapponic solitons for tunable high-repetition rate pulse train generation. , 2008, , .		0

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181	Observation of spectral drift in engineered quadratic nonlinear media. Applied Physics Letters, 2008, 93, 021107.	1.5	7
182	Tunable narrow-bandwidth picosecond pulses by spectral compression of femtosecond pulses in second-order nonlinear crystals. , 2008, , .		0
183	<title>Experiment and theory of tunable braodband parametric gain in a photonic crystal fiber</title>. , 2007, , .		0
184	Parametric Frequency Conversion of Optical Simulton Pulses. , 2007, , .		0
185	Parametric frequency conversion of optical simulton pulses. , 2007, , .		0
186	<title>Self pulsing due to backward second-harmonic generation in engineered PPLN: the role of the induced cubic nonlinearity</title>. , 2007, , .		0
187	<title>Propagation and stability of novel parametric solitons</title>. , 2007, , .		0
188	From femtosecond infrared to picosecond visible pulses: temporal shaping with high-efficiency conversion. Optics Letters, 2007, 32, 1779.	1.7	26
189	Self-pulsing and bistability in nonlinear Bragg gratings. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2229.	0.9	19
190	Parametric frequency conversion of short optical pulses controlled by a CW background. Optics Express, 2007, 15, 12246.	1.7	23
191	Imaging Properties of Multimode Photonic Crystal Waveguides and Waveguide Arrays. Journal of Lightwave Technology, 2007, 25, 402-409.	2.7	19
192	Effects of nonlinear wave coupling: Accelerated solitons. European Physical Journal: Special Topics, 2007, 147, 233-252.	1.2	12
193	Stable Control of Pulse Speed in Parametric Three-Wave Solitons. Physical Review Letters, 2006, 97, 093901.	2.9	51
194	Discrete negative refraction in photonic crystal waveguide arrays. Optics Letters, 2006, 31, 1343.	1.7	17
195	Frequency tunable polarization and intermodal modulation instability in high birefringence holey fiber. Optics Express, 2006, 14, 397.	1.7	31
196	Modified edge finite elements for photonic crystals. Numerische Mathematik, 2006, 105, 249-266.	0.9	31
197	Bistability, limiting, and self-pulsing in backward second-harmonic generation: a time-domain approach. Journal of Optics, 2006, 8, S494-S501.	1.5	15
198	Inelastic scattering and interactions of three-wave parametric solitons. Physical Review E, 2006, 74, 065602.	0.8	27

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199	Discrete negative refraction and left-handed propagation in photonic crystal waveguide arrays. , 2006, , .		0
200	Observation of frequency tunable cross-phase modulation instabilities in highly birefringent photonic crystal fiber. , 2006, , .		0
201	Propagation, Stability and Interactions of Novel Three-Wave Parametric Solitons. , 2006, , .		0
202	Self-pulsing instabilities in backward parametric wave mixing. Journal of the Optical Society of America B: Optical Physics, 2005, 22, 2178.	0.9	14
203	Diffraction engineering in arrays of photonic crystal waveguides. Optics Letters, 2005, 30, 2894.	1.7	30
204	Pulse train generation by counterpropagating second order nonlinear interactions. , 2005, , .		0
205	Self-pulsing instability in backward parametric interactions. , 0, , .		0