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List of Publications by Year in Descending Order

149 papers	3,303 citations	33 h-index	48 g-index
218 ext. papers	4,169 ext. citations	4 avg, IF	5.23 L-index

#	Paper	IF	Citations
149	All-solid polarization-maintaining silica fiber with birefringence induced by anisotropic metaglass.. *Optics Letters*, **2022**, 47, 401-404	3	3
148	Precursors-driven machine learning prediction of chaotic extreme pulses in Kerr resonators. *Chaos, Solitons and Fractals*, **2022**, 160, 112199	9.3	
147	Mid-infrared parametric wavelength conversion seeded with fiber optical parametric sources. *EPJ Web of Conferences*, **2021**, 255, 11004	0.3	
146	"Extraordinary" modulation instability in optics and hydrodynamics. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	6
145	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,	3.9	1
144	Theory of filter-induced modulation instability in driven passive optical resonators. *Physical Review A*, **2021**, 103,	2.6	1
143	Origin of spontaneous wave mixing processes in multimode GRIN fibers. *Optics Express*, **2021**, 29, 30822-30833	3	0
142	Experimental investigation of short pulse Raman amplification with backward pumping. *Optics Letters*, **2021**, 46, 5019-5022	3	0
141	Doubly periodic solutions of the focusing nonlinear Schrödinger equation: Recurrence, period doubling, and amplification outside the conventional modulation-instability band. *Physical Review A* , **2020**, 101,	2.6	24
140	Observation of four Fermi-Pasta-Ulam-Tsingou recurrences in an ultra-low-loss optical fiber. *Optics Express*, **2020**, 28, 17773-17781	3.3	8
139	Observation of doubly periodic solutions of the nonlinear Schrödinger equation in optical fibers. *Optics Letters*, **2020**, 45, 3757-3760	3	7
138	Optical analogue of the dynamical Casimir effect in a dispersion-oscillating fibre. *Communications Physics*, **2019**, 2,	5.4	15
137	Gain-through-filtering enables tuneable frequency comb generation in passive optical resonators. *Nature Communications*, **2019**, 10, 4489	17.4	7
136	Real-Time Characterization of Period-Doubling Dynamics in Uniform and Dispersion Oscillating Fiber Ring Cavities. *Physical Review X*, **2019**, 9,	9.1	4
135	Full-field characterization of breather dynamics over the whole length of an optical fiber. *Optics Letters*, **2019**, 44, 763-766	3	17
134	Experimental characterization of recurrences and separatrix crossing in modulational instability. *Optics Letters*, **2019**, 44, 5426-5429	3	13
133	Rogue waves and analogies in optics and oceanography. *Nature Reviews Physics*, **2019**, 1, 675-689	23.6	103

132	Fibre multi-wave mixing combs reveal the broken symmetry of Fermi□Pasta□Ulam recurrence. *Nature Photonics*, **2018**, 12, 303-308	33.9	67
131	Modulation instability in dispersion oscillating fibers. *Advances in Optics and Photonics*, **2018**, 10, 1	16.7	26
130	Grayness-dependent emission of dispersive waves from dark solitons in optical fibers. *Optics Letters*, **2018**, 43, 1511-1514	3	10
129	Non-invasive distributed characterization in phase and intensity of the nonlinear stage of modulation instability **2018**,		1
128	Low Noise High-Energy Dissipative Soliton Erbium Fiber Laser for Fiber Optical Parametric Oscillator Pumping. *Applied Sciences (Switzerland)*, **2018**, 8, 2161	2.6	3
127	High-energy dissipative soliton-driven fiber optical parametric oscillator emitting at 1.7 □m. *Laser Physics Letters*, **2018**, 15, 115103	1.5	10
126	□-level Raman-assisted fiber optical parametric chirped-pulse amplification. *Optics Letters*, **2018**, 43, 4683-4686	3	16
125	Collision between a dark soliton and a linear wave in an optical fiber. *Optics Express*, **2018**, 26, 23480-23491	3.3	5
124	Instabilities in passive dispersion oscillating fiber ring cavities. *European Physical Journal D*, **2017**, 71, 1	1.3	5
123	Dynamics of Turing and Faraday instabilities in a longitudinally modulated fiber-ring cavity. *Optics Letters*, **2017**, 42, 435-438	3	12
122	Dispersive Dam-Break Flow of a Photon Fluid. *Physical Review Letters*, **2017**, 118, 254101	7.4	43
121	Modulation instability in the weak dispersion regime of a dispersion modulated passive fiber-ring cavity. *Optics Express*, **2017**, 25, 11283-11296	3.3	8
120	Longitudinal soliton tunneling in optical fiber. *Optics Letters*, **2017**, 42, 2350-2353	3	8
119	Modulation instability in the weak normal dispersion region of passive fiber ring cavities. *Optics Letters*, **2017**, 42, 3730-3733	3	9
118	Fast and accurate modeling of nonlinear pulse propagation in graded-index multimode fibers. *Optics Letters*, **2017**, 42, 4004-4007	3	46
117	Weak Langmuir optical turbulence in a fiber cavity. *Physical Review A*, **2016**, 94,	2.6	3
116	Competing Turing and Faraday Instabilities in Longitudinally Modulated Passive Resonators. *Physical Review Letters*, **2016**, 116, 143901	7.4	33
115	Heteroclinic Structure of Parametric Resonance in the Nonlinear Schr□inger Equation. *Physical Review Letters*, **2016**, 117, 013901	7.4	15

114	Shock wave generation triggered by a weak background in optical fibers. *Optics Letters*, **2016**, 41, 2656-9	3	22
113	Solitonization of a dispersive wave. *Optics Letters*, **2016**, 41, 1412-5	3	10
112	Single-frequency Raman fiber amplifier emitting 11 J150 W peak-power at 1645 nm for remote methane sensing applications **2016**,		1
111	Nonlinear phase added by a Raman fiber amplifier to a single-frequency seed laser **2016**,		1
110	Parametric instabilities in modulated fiber ring cavities. *Optics Letters*, **2016**, 41, 5027-5030	3	15
109	Efficiency of four-wave mixing between orthogonally polarized linear waves and solitons in a birefringent fiber. *Physical Review A*, **2016**, 94,	2.6	13
108	Emission of dispersive waves from a train of dark solitons in optical fibers. *Optics Letters*, **2016**, 41, 2454-7	3	18
107	Multiple QPM Resonant Radiations Induced by MI in Dispersion Oscillating Fibers. *IEEE Photonics Technology Letters*, **2016**, 28, 740-743	2.2	10
106	Roadmap on optical rogue waves and extreme events. *Journal of Optics (United Kingdom)*, **2016**, 18, 063001	2.1	167
105	Impact of third-order dispersion on nonlinear bifurcations in optical resonators. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2015**, 379, 1934-1937	2.3	3
104	Modulation instability in amplitude modulated dispersion oscillating fibers. *Optics Express*, **2015**, 23, 3869-75	3.3	12
103	Parametric excitation of multiple resonant radiations from localized wavepackets. *Scientific Reports* , **2015**, 5, 9433	4.9	48
102	12 THz flat gain fiber optical parametric amplifiers with dispersion varying fibers. *Optics Express*, **2015**, 23, 10103-10	3.3	16
101	A two-stage photonic crystal fiber / silicon photonic wire short-wave infrared wavelength converter/amplifier based on a 1064 nm pump source. *Optics Express*, **2015**, 23, 13025-31	3.3	2
100	Bouncing of a dispersive wave in a solitonic cage. *Optics Letters*, **2015**, 40, 3320-3	3	34
99	Observation of the stepwise blue shift of a dispersive wave preceding its trapping by a soliton. *Optics Express*, **2015**, 23, 16595-601	3.3	17
98	Simultaneous control of the wavelength and duration of Raman-shifting solitons using topographic photonic crystal fibers. *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 2146	1.7	2
97	Soliton annihilation into a polychromatic dispersive wave. *Optics Letters*, **2015**, 40, 2142-5	3	5

96	Ultrabroadband fiber optical parametric amplifiers pumped by chirped pulses Part 1: analytical model. *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 1479	1.7	19
95	Ultrabroadband fiber optical parametric amplifier pumped by chirped pulses Part 2: sub-30-fs pulse amplification at high gain. *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 1488	1.7	12
94	110 nm versatile fiber optical parametric amplifier at 1.0 Ħh. *Optics Letters*, **2015**, 40, 4090-3	3	4
93	Optimal frequency conversion in the nonlinear stage of modulation instability. *Optics Express*, **2015**, 23, 30861-71	3.3	20
92	Optical event horizons from the collision of a soliton and its own dispersive wave. *Physical Review A* , **2015**, 92,	2.6	28
91	Modulational instability in dispersion-kicked optical fibers. *Physical Review A*, **2015**, 92,	2.6	6
90	Turbulent dynamics of an incoherently pumped passive optical fiber cavity: Quasisolitons, dispersive waves, and extreme events. *Physical Review A*, **2015**, 91,	2.6	24
89	Experimental dynamics of Akhmediev breathers in a dispersion varying optical fiber. *Optics Letters*, **2014**, 39, 4490-3	3	22
88	Dynamics of cascaded resonant radiations in a dispersion-varying optical fiber. *Optica*, **2014**, 1, 243	8.6	25
87	Continuous-wave dual-pump fibre optical parametric amplifier around 1 μm. *Electronics Letters*, **2014**, 50, 107-108	1.1	3
86	Top-hat beam output with 100 □ temporally shaped narrow-bandwidth nanosecond pulses from a linearly polarized all-fiber system. *Optics Letters*, **2014**, 39, 4780-3	3	1
85	Ultra-broadband fiber optical parametric amplifier pumped by chirped pulses. *Optics Letters*, **2014**, 39, 3782-5	3	18
84	Modulational instability in dispersion oscillating fiber ring cavities. *Optics Letters*, **2014**, 39, 4200-3	3	31
83	Emission of multiple dispersive waves from a single Raman-shifting soliton in an axially-varying optical fiber. *Optics Express*, **2014**, 22, 25673-8	3.3	11
82	Correlation between multiple modulation instability side lobes in dispersion oscillating fiber. *Optics Letters*, **2014**, 39, 1881-4	3	16
81	Broadband fiber-optical parametric amplification for ultrafast time-stretch imaging at 1.0 Ħh. *Optics Letters*, **2014**, 39, 5989-92	3	27
80	Fermi-Pasta-Ulam Recurrence in Nonlinear Fiber Optics: The Role of Reversible and Irreversible Losses. *Physical Review X*, **2014**, 4,	9.1	26
79	Fiber-based ultrashort pulse delivery for nonlinear imaging using high-energy solitons. *Journal of Biomedical Optics*, **2014**, 19, 086021	3.5	6

78	Modulational instability and pulse generation in dispersion oscillating fiber ring cavities **2014**,		1
77	Top-hat beam output of a single-mode microstructured optical fiber: impact of core index depression. *Optics Express*, **2013**, 21, 23250-60	3.3	25
76	Dynamics of the modulation instability spectrum in optical fibers with oscillating dispersion. *Physical Review A*, **2013**, 87,	2.6	37
75	Nonlinear symmetry breaking induced by third-order dispersion in optical fiber cavities. *Physical Review Letters*, **2013**, 110, 104103	7.4	41
74	Simultaneous scalar and cross-phase modulation instabilities in highly birefringent photonic crystal fiber. *Optics Express*, **2013**, 21, 8437-43	3.3	28
73	Amplification of ultra-short optical pulses in a two-pump fiber optical parametric chirped pulse amplifier. *Optics Express*, **2013**, 21, 12197-203	3.3	9
72	Widely tunable polarization maintaining photonic crystal fiber based parametric wavelength conversion. *Optics Express*, **2013**, 21, 15826-33	3.3	11
71	Real time noise and wavelength correlations in octave-spanning supercontinuum generation. *Optics Express*, **2013**, 21, 18452-60	3.3	71
70	Fourth-order dispersion mediated modulation instability in dispersion oscillating fibers. *Optics Letters*, **2013**, 38, 3464-7	3	22
69	Control of the soliton self-frequency shift dynamics using topographic optical fibers. *Optics Letters*, **2013**, 38, 3390-3	3	15
68	Partition of the instantaneous and delayed nonlinear responses for the propagation of ultrashort solitons in optical fibers. *Physical Review A*, **2012**, 85,	2.6	2
67	Flattened fundamental mode in microstructured fibers: design, realization and characterization **2012**,		1
66	Optimization of continuous-wave supercontinuum generation. *Optical Fiber Technology*, **2012**, 18, 322-326	2.4	7
65	Temperature Dependence of the Zero Dispersion Wavelength in a Photonic Crystal Fiber. *IEEE Photonics Technology Letters*, **2012**, 24, 431-433	2.2	6
64	Real-time full bandwidth measurement of spectral noise in supercontinuum generation. *Scientific Reports*, **2012**, 2, 882	4.9	107
63	Manipulating the Propagation of Solitons with Solid-Core Photonic Bandgap Fibers. *International Journal of Optics*, **2012**, 2012, 1-12	0.9	2
62	Highly-nonlinear photonic crystal fibre with high figure of merit around 1 [micro sign]m. *Electronics Letters*, **2012**, 48, 232	1.1	7
61	20 THz-bandwidth continuous-wave fiber optical parametric amplifier operating at 1 μm using a dispersion-stabilized photonic crystal fiber. *Optics Express*, **2012**, 20, 28906-11	3.3	25

60	Active reduction of fluctuations in fourth-order modulation instability. *Optics Letters*, **2012**, 37, 4305-7	3	1
59	Black-light continuum generation in a silica-core photonic crystal fiber. *Optics Letters*, **2012**, 37, 130-2	3	16
58	Synchronously pumped photonic crystal fiber-based optical parametric oscillator. *Optics Letters*, **2012**, 37, 3156-8	3	11
57	Experimental demonstration of modulation instability in an optical fiber with a periodic dispersion landscape. *Optics Letters*, **2012**, 37, 4832-4	3	49
56	Top-hat beam output from a large mode area microstructured fiber for beam delivery **2012**,		2
55	High-energy Yb-doped fiber MOPA in the ns-kHz regime for large-scale laser facilities front-end **2011**,		2
54	Enhanced soliton self-frequency shift and CW supercontinuum generation in GeO_2-doped core photonic crystal fibers. *Journal of the Optical Society of America B: Optical Physics*, **2011**, 28, 1152	1.7	16
53	Dynamics of fiber optical parametric chirped pulse amplifiers. *Journal of the Optical Society of America B: Optical Physics*, **2011**, 28, 2848	1.7	19
52	High-energy temporally shaped nanosecond-pulse master-oscillator power amplifier based on ytterbium-doped single-mode microstructured flexible fiber. *Optics Letters*, **2011**, 36, 734-6	3	20
51	Symmetry-breaking dynamics of the modulational instability spectrum. *Optics Letters*, **2011**, 36, 1359-61	3	34
50	Third-order dispersion drastically changes parametric gain in optical fiber systems. *Physical Review A*, **2011**, 83,	2.6	11
49	Phosphorus-Doped Photonic Crystal Fibers for High-Power (36 W) Visible CW Supercontinuum. *IEEE Photonics Journal*, **2011**, 3, 815-820	1.8	16
48	Widely Tunable Parametric Amplification and Pulse Train Generation by Heating a Photonic Crystal Fiber. *IEEE Journal of Quantum Electronics*, **2011**, 47, 1514-1518	2	13
47	Simple Method for Measuring the Zero-Dispersion Wavelength in Optical Fibers. *IEEE Photonics Technology Letters*, **2011**, 23, 609-611	2.2	6
46	All-fiber tunable optical delay line. *Optics Express*, **2010**, 18, 3093-100	3.3	44
45	Efficient blue conversion from a 1064 nm microchip laser in long photonic crystal fiber tapers for fluorescence microscopy. *Optics Express*, **2010**, 18, 16640-5	3.3	26
44	Significant reduction of power fluctuations at the long-wavelength edge of a supercontinuum generated in solid-core photonic bandgap fibers. *Optics Express*, **2010**, 18, 24352-60	3.3	12
43	Long wavelength extension of CW-pumped supercontinuum through soliton-dispersive wave interactions. *Optics Express*, **2010**, 18, 24729-34	3.3	20

42	Control of pulse-to-pulse fluctuations in visible supercontinuum. *Optics Express*, **2010**, 18, 27445-54	3.3	43
41	Impact of the third-order dispersion on the modulation instability gain of pulsed signals. *Optics Letters*, **2010**, 35, 1194-6	3	25
40	Experimental demonstration of optical parametric chirped pulse amplification in optical fiber. *Optics Letters*, **2010**, 35, 1786-8	3	26
39	High-gain fiber, optical-parametric, chirped-pulse amplification of femtosecond pulses at 1 □m. *Optics Letters*, **2010**, 35, 3480-2	3	31
38	Optical Parametric Chirped Pulse Amplification in an Optical Fiber. *Optics and Photonics News*, **2010** , 21, 34	1.9	3
37	Demonstration of an All-Fiber Broadband Optical Parametric Amplifier at 1 mu m. *Journal of Lightwave Technology*, **2010**, 28, 2173-2178	4	10
36	Single-mode narrow-bandwidth temporally shaped nanosecond-pulse ytterbium-doped fiber MOPA for a large-scale laser facility front-end. *Journal of the Optical Society of America B: Optical Physics*, **2010**, 27, 2231	1.7	14
35	Third-order dispersion for generating optical rogue solitons. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2010**, 374, 691-695	2.3	87
34	Thermal noise for SBS suppression in fiber optical parametric amplifiers. *Optics Communications*, **2010**, 283, 2607-2610	2	14
33	Localized beating between dynamically generated frequencies. *Physical Review Letters*, **2009**, 102, 043905	7.4	15
32	Parametric amplification and wavelength conversion in the 1040□1090 nm band by use of a photonic crystal fiber. *Applied Physics Letters*, **2009**, 94, 111104	3.4	23
31	Convective Instabilities and Optical Rogue Waves in Fibers with CW Pumping **2009**,		4
30	19.5 W CW-pumped supercontinuum source from 0.65 to 1.38 [micro sign]m. *Electronics Letters*, **2009**, 45, 29	1.1	21
29	All-optical SBS reduction in fiber optic parametric amplifiers. *Optics Communications*, **2009**, 282, 988-991	2	8
28	Control of supercontinuum generation and soliton self-frequency shift in solid-core photonic bandgap fibers. *Optics Letters*, **2009**, 34, 3083-5	3	34
27	White-light cw-pumped supercontinuum generation in highly GeO(2)-doped-core photonic crystal fibers. *Optics Letters*, **2009**, 34, 3631-3	3	58
26	Experimental signature of optical wave thermalization through supercontinuum generation in photonic crystal fiber. *Optics Express*, **2009**, 17, 7392-406	3.3	45
25	Observation of extreme temporal events in CW-pumped supercontinuum. *Optics Express*, **2009**, 17, 17010-5	3.3	108

24	Dispersion-Engineered Photonic Crystal Fibers for CW-Pumped Supercontinuum Sources. *Journal of Lightwave Technology*, **2009**, 27, 1556-1564	4	43
23	Optical fiber systems are convectively unstable. *Physical Review Letters*, **2008**, 101, 113904	7.4	38
22	Visible cw-pumped supercontinuum. *Optics Letters*, **2008**, 33, 2407-9	3	59
21	Experimental investigation of combined four-wave mixing and Raman effect in the normal dispersion regime of a photonic crystal fiber. *Optics Letters*, **2008**, 33, 2488-90	3	20
20	Spectrally-bounded continuous-wave supercontinuum generation in a fiber with two zero-dispersion wavelengths. *Optics Express*, **2008**, 16, 6745-55	3.3	17
19	System Performances of Fiber Optical Parametric Amplifiers. *Fiber and Integrated Optics*, **2008**, 27, 516-53	0.8	1
18	Extended blue side of flat supercontinuum generation in PCFs with a CW Yb fiber laser **2008**,		2
17	CW Supercontinuum Generation in Photonic Crystal Fibres with Two Zero-Dispersion Wavelengths. *AIP Conference Proceedings*, **2008**,	0	7
16	Experimental demonstration of multiwatt continuous-wave supercontinuum tailoring in photonic crystal fibers. *Applied Physics Letters*, **2008**, 92, 141103	3.4	11
15	Simple methods for crosstalk reduction in fiber optical parametric amplifiers. *Optics Communications*, **2007**, 275, 448-452	2	6
14	Control and removal of modulational instabilities in low-dispersion photonic crystal fiber cavities. *Optics Letters*, **2007**, 32, 662-4	3	42
13	Tailoring CW supercontinuum generation in microstructured fibers with two-zero dispersion wavelengths. *Optics Express*, **2007**, 15, 11553-63	3.3	56
12	Zero-dispersion wavelength mapping in short single-mode optical fibers using parametric amplification. *IEEE Photonics Technology Letters*, **2006**, 18, 22-24	2.2	21
11	Ultralow chromatic dispersion measurement of optical fibers with a tunable fiber laser. *IEEE Photonics Technology Letters*, **2006**, 18, 1825-1827	2.2	17
10	Theoretical study of gain distortions in dual-pump fiber optical parametric amplifiers. *Optics Communications*, **2006**, 267, 244-252	2	7
9	Annular aperture arrays: study in the visible region of the electromagnetic spectrum. *Optics Letters*, **2005**, 30, 1611-3	3	38
8	Impact of pump phase modulation on system performance of fibre-optical parametric amplifiers. *Electronics Letters*, **2005**, 41, 350	1.1	18
7	Impact of pump OSNR on noise figure for fiber-optical parametric amplifiers. *IEEE Photonics Technology Letters*, **2005**, 17, 1178-1180	2.2	35

6	Phononic band-gap guidance of acoustic modes in photonic crystal fibers. *Physical Review B*, **2005**, 71,	3.3	61
5	Impact of pump phase modulation on the gain of fiber optical parametric amplifier. *IEEE Photonics Technology Letters*, **2004**, 16, 1289-1291	2.2	48
4	Spectral broadening of a partially coherent CW laser beam in single-mode optical fibers. *Optics Express*, **2004**, 12, 2838-43	3.3	102
3	Generation of a broadband single-mode supercontinuum in a conventional dispersion-shifted fiber by use of a subnanosecond microchip laser. *Optics Letters*, **2003**, 28, 1820-2	3	49
2	Broadband and flat parametric amplifiers with a multisection dispersion-tailored nonlinear fiber arrangement. *Journal of the Optical Society of America B: Optical Physics*, **2003**, 20, 1532	1.7	55
1	Recent Advances in Supercontinuum Generation inSpecialty Fiber. *Journal of the Optical Society of America B: Optical Physics*,	1.7	13