

Wonkeun Chang

List of Publications by Year in descending order

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89
papers

3,448
citations

218381
26
h-index

197535
49
g-index

90
all docs

90
docs citations

90
times ranked

1984
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow-core photonic crystal fibres for gas-based nonlinear optics. <i>Nature Photonics</i> , 2014, 8, 278-286.	15.6	439
2	Dissipative soliton resonances. <i>Physical Review A</i> , 2008, 78, .	1.0	376
3	Ultrafast nonlinear optics in gas-filled hollow-core photonic crystal fibers [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, A11.	0.9	322
4	Roadmap on optical rogue waves and extreme events. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 063001.	1.0	225
5	Bright Spatially Coherent Wavelength-Tunable Deep-UV Laser Source Using an Ar-Filled Photonic Crystal Fiber. <i>Physical Review Letters</i> , 2011, 106, 203901.	2.9	190
6	Vacuum-ultraviolet to infrared supercontinuum in hydrogen-filled photonic crystal fiber. <i>Optica</i> , 2015, 2, 292.	4.8	158
7	Dissipative soliton resonances in the anomalous dispersion regime. <i>Physical Review A</i> , 2009, 79, .	1.0	155
8	Femtosecond Nonlinear Fiber Optics in the Ionization Regime. <i>Physical Review Letters</i> , 2011, 107, 203901.	2.9	139
9	Dissipative soliton resonance as a guideline for high-energy pulse laser oscillators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 2336.	0.9	137
10	Theory of Photoionization-Induced Blueshift of Ultrashort Solitons in Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2011, 107, 203902.	2.9	124
11	Dissipative soliton resonances in laser models with parameter management. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 1972.	0.9	100
12	Ultrafast nonlinear dynamics of surface plasmon polaritons in gold nanowires due to the intrinsic nonlinearity of metals. <i>New Journal of Physics</i> , 2013, 15, 013033.	1.2	99
13	Mid-infrared supercontinuum generation in As ₂ S ₃ -silica nanospike-step-index waveguide. <i>Optics Express</i> , 2013, 21, 10969.	1.7	97
14	Influence of ionization on ultrafast gas-based nonlinear fiber optics. <i>Optics Express</i> , 2011, 19, 21018.	1.7	77
15	Extreme soliton pulsations in dissipative systems. <i>Physical Review E</i> , 2015, 92, 022926.	0.8	75
16	Mid-infrared supercontinuum generation in supercritical xenon-filled hollow-core negative curvature fibers. <i>Optics Letters</i> , 2016, 41, 5122.	1.7	62
17	Midinfrared frequency combs from coherent supercontinuum in chalcogenide and optical parametric oscillation. <i>Optics Letters</i> , 2014, 39, 2056.	1.7	57
18	Positive and negative curvatures nested in an antiresonant hollow-core fiber. <i>Optics Letters</i> , 2017, 42, 703.	1.7	56

#	ARTICLE	IF	CITATIONS
19	Spiny solitons and noise-like pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 1377.	0.9	45
20	Effect of the second ring of antiresonant tubes in negative-curvature fibers. <i>Optics Express</i> , 2020, 28, 1168.	1.7	44
21	Plasma-Induced Asymmetric Self-Phase Modulation and Modulational Instability in Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2012, 109, 113902.	2.9	43
22	Creeping solitons in dissipative systems and their bifurcations. <i>Physical Review E</i> , 2007, 76, 016607.	0.8	42
23	Combined soliton pulse compression and plasma-related frequency upconversion in gas-filled photonic crystal fiber. <i>Optics Letters</i> , 2013, 38, 2984.	1.7	36
24	Observation of Coexisting Dissipative Solitons in a Mode-Locked Fiber Laser. <i>Physical Review Letters</i> , 2015, 115, 253903.	2.9	35
25	Empirical Formulae for Dispersion and Effective Mode Area in Hollow-Core Antiresonant Fibers. <i>Journal of Lightwave Technology</i> , 2018, 36, 4060-4065.	2.7	34
26	Extreme amplitude spikes in a laser model described by the complex Ginzburg-Landau equation. <i>Optics Letters</i> , 2015, 40, 2949.	1.7	28
27	Raman-free nonlinear optical effects in high pressure gas-filled hollow core PCF. <i>Optics Express</i> , 2013, 21, 4405.	1.7	23
28	Effect of an external periodic potential on pairs of dissipative solitons. <i>Physical Review A</i> , 2009, 80, .	1.0	20
29	Anti-resonant hollow-core fiber fusion spliced to laser gain fiber for high-power beam delivery. <i>Optics Letters</i> , 2021, 46, 4374.	1.7	20
30	Influence of external phase and gain-loss modulation on bound solitons in laser systems. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2009, 26, 2204.	0.9	17
31	Analyzing mode index mismatch and field overlap for light guidance in negative-curvature fibers. <i>Optics Express</i> , 2020, 28, 27974.	1.7	16
32	Creeping solitons of the complex Ginzburg-Landau equation with a low-dimensional dynamical system model. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 362, 31-36.	0.9	13
33	Low-energy-threshold deep-ultraviolet generation in a small-mode-area hollow-core fiber. <i>Photonics Research</i> , 2021, 9, 590.	3.4	12
34	Understanding bending-induced loss and bending-enhanced higher-order mode suppression in negative curvature fibers. <i>Optics Express</i> , 2021, 29, 23622.	1.7	12
35	Midinfrared Pulse Generation by Pumping in the Normal-Dispersion Regime of a Gas-Filled Hollow-Core Fiber. <i>Physical Review Applied</i> , 2019, 12, .	1.5	11
36	Modulation instability in higher-order nonlinear Schrödinger equations. <i>Chaos</i> , 2018, 28, 123116.	1.0	10

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37	Effect of decreasing pressure on soliton self-compression in higher-order modes of a gas-filled capillary. <i>Optics Express</i> , 2021, 29, 7070.	1.7	10
38	Influence of timing jitter on nonlinear dynamics of a photonic crystal fiber ring cavity. <i>Optics Letters</i> , 2012, 37, 3576.	1.7	9
39	Investigation of a Bragg Grating-Based Fabry-Perot Structure Inscribed Using Femtosecond Laser Micromachining in an Adiabatic Fiber Taper. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1069.	1.3	9
40	Integration of an anti-resonant hollow-core fiber with a multimode Yb-doped fiber for high power near-diffraction-limited laser operation. <i>Optics Express</i> , 2022, 30, 7928.	1.7	9
41	Rogue wave fission. <i>Physical Review Research</i> , 2021, 3, .	1.3	7
42	Band-edge mediated frequency down-conversion in a gas-filled anti-resonant hollow-core fiber. <i>Optics Letters</i> , 2020, 45, 6815.	1.7	7
43	In-line hollow-core fiber-optic bandpass filter. <i>Optics Letters</i> , 2021, 46, 5918.	1.7	7
44	Dissipative solitons with extreme spikes in the normal and anomalous dispersion regimes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018, 376, 20180023.	1.6	6
45	Geometrical Scaling of Antiresonant Hollow-Core Fibers for Mid-Infrared Beam Delivery. <i>Crystals</i> , 2021, 11, 420.	1.0	5
46	Antiresonant Hollow-Core Inline Fiber Polarizer. <i>Journal of Lightwave Technology</i> , 2022, 40, 5689-5697.	2.7	5
47	Generating ultra-short high-energy pulses using dissipative soliton resonance: Pulse compression schemes. , 2011, , .		3
48	Exploding solitons vs rogue waves in laser cavities. , 2014, , .		2
49	Sensing Characteristics of a Grating-Based Fabry-Perot Structure in a Biconical Tapered Fiber. , 2019, , .		2
50	Concurrent instabilities causing multiple rogue waves in infinite-dimensional dynamical systems. <i>Nonlinear Dynamics</i> , 2020, 99, 2265-2275.	2.7	2
51	UV Continuum Generation in Ar-Filled Hollow-Core PCF. , 2012, , .		2
52	Creeping solitons in dissipative systems. , 2006, , .		1
53	Dissipative solitons for mode-locked fiber lasers. , 2010, , .		1
54	Fabrication and Characterization of a Double-Ring Negative-Curvature Hollow-Core Fiber. , 2021, , .		1

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55	Emergence of breathers in non-linear pulse compression. Journal of Optics (United Kingdom), 2020, 22, 085502.	1.0	1
56	Complete characterization of the generation of a 2.8 ps pedestal-free optical pulse using a gain-switched laser and a compressing nonlinear amplifying loop mirror. , 2005, , .		1
57	Nonlinear optics in hollow-core photonic crystal fiber filled with liquid argon. , 2012, , .		1
58	Effect of Mode-Area Dispersion on Ultrafast Nonlinear Dynamics in Gas-Filled Anti-Resonant Hollow-Core Fibers. , 2020, , .		1
59	Tuning the soliton-effect compression via stretching of the pump. Laser Physics, 2020, 30, 105401.	0.6	1
60	Selective Excitation of Fundamental Mode in Fusion Spliced Antiresonant Hollow-Core Fiber. , 2021, , .		1
61	Multiplicity of soliton transformations in the vicinity of the boundaries of their existence. Proceedings of SPIE, 2007, , .	0.8	0
62	Nonlinear Optics in Gas-Filled HC-PCF in the Plasma Regime. , 2011, , .		0
63	Theoretical study of dispersive wave generation in ar-filled hollow-core PCF above the plasma threshold. , 2011, , .		0
64	High-field nonlinear fiber optics. , 2012, , .		0
65	Theoretical Explanation of the Soliton Self-frequency Blueshift in Gas-filled Hollow Core Photonic Crystal Fibres. , 2012, , .		0
66	Interaction between Kerr and Ionization Induced Nonlinear Fiber Optics. , 2012, , .		0
67	Plasma-induced soliton self-frequency blueshift in gas-filled hollow-core PCFs. , 2012, , .		0
68	Mid infrared supercontinuum generation in nanotapered chalcogenide-silica step-index waveguides. , 2013, , .		0
69	Mid-IR Frequency Combs From Coherent Supercontinuum Generation in Chalcogenide Nano-Spike Waveguides. , 2013, , .		0
70	Impulsive Raman-induced spectral broadening in hydrogen-filled HC-PCF. , 2013, , .		0
71	Dynamics in photonic crystal fiber ring cavities. , 2013, , .		0
72	Frequency up-conversion and pulse compression mediated by soliton plasma interactions in gas-filled photonic crystal fiber. , 2013, , .		0

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73	Frequency conversion and compression of ultrashort pulses in gas-filled hollow-core photonic crystal fibres. , 2013, , .		0
74	Vacuum UV to IR supercontinuum generation by impulsive Raman self-scattering in hydrogen-filled PCF. , 2014, , .		0
75	Mid-infrared supercontinuum generation in a supercritical xenon filled hollow-core fiber by pumping in the normal dispersion regime. , 2017, , .		0
76	Dissipative solitons with extreme spikes. , 2017, , .		0
77	Effect of Initial Chirp on Soliton Pulse Compression in the Ionization Regime. , 2019, , .		0
78	Four-Octave-Spanning Mid-Infrared Supercontinuum Generation in a Gas-Filled Hollow-Core Fiber. , 2021, , .		0
79	Self-propelled Solitons in Dissipative Systems. , 2007, , .		0
80	Theory of Photoionization-induced Nonlinear Phenomena in Gas-filled Photonic Crystal Fibers. , 2012, , .		0
81	Widely-Tunable UV-Visible Source Using Gas-Filled Hollow-Core PCF. , 2012, , .		0
82	Nonlinear dynamics of synchronously pumped photonic crystal fiber ring cavities. , 2012, , .		0
83	Mid-IR Frequency Combs From Coherent Supercontinuum Generation in Chalcogenide Nano-Spike Waveguides. , 2013, , .		0
84	Vacuum UV to IR supercontinuum generation by impulsive Raman self-scattering in hydrogen-filled PCF. , 2014, , .		0
85	Extreme Pulse Dynamics in Mode-Locked Lasers. Springer Proceedings in Physics, 2018, , 171-189.	0.1	0
86	Effect of Altering Outer-Layer-Tube Thickness in Two-Ring Anti-Resonant Hollow-Core Fibers. , 2020, , .		0
87	Generation of Long-Wavelength Radiation in Gas-Filled Anti-Resonant Hollow-Core Fiber. , 2020, , .		0
88	An Antiresonant Hollow-Core Fiber In-Line Bandpass Optical Filter. , 2021, , .		0
89	Impact of Mode-Area Dispersion on Nonlinear Pulse Propagation in Gas-Filled Anti-Resonant Hollow-Core Fiber. Photonics, 2022, 9, 25.	0.9	0