

# Wonkeun Chang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2746771/publications.pdf>

Version: 2024-02-01

89  
papers

3,448  
citations

218677  
26  
h-index

197818  
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. Nature Photonics, 2014, 8, 278-286.	31.4	439
2	Dissipative soliton resonances. Physical Review A, 2008, 78, .	2.5	376
3	Ultrafast nonlinear optics in gas-filled hollow-core photonic crystal fibers [Invited]. Journal of the Optical Society of America B: Optical Physics, 2011, 28, A11.	2.1	322
4	Roadmap on optical rogue waves and extreme events. Journal of Optics (United Kingdom), 2016, 18, 063001.	2.2	225
5	Bright Spatially Coherent Wavelength-Tunable Deep-UV Laser Source Using an Ar-Filled Photonic Crystal Fiber. Physical Review Letters, 2011, 106, 203901.	7.8	190
6	Vacuum-ultraviolet to infrared supercontinuum in hydrogen-filled photonic crystal fiber. Optica, 2015, 2, 292.	9.3	158
7	Dissipative soliton resonances in the anomalous dispersion regime. Physical Review A, 2009, 79, .	2.5	155
8	Femtosecond Nonlinear Fiber Optics in the Ionization Regime. Physical Review Letters, 2011, 107, 203901.	7.8	139
9	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.	2.1	137
10	Theory of Photoionization-Induced Blueshift of Ultrashort Solitons in Gas-Filled Hollow-Core Photonic Crystal Fibers. Physical Review Letters, 2011, 107, 203902.	7.8	124
11	Dissipative soliton resonances in laser models with parameter management. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1972.	2.1	100
12	Ultrafast nonlinear dynamics of surface plasmon polaritons in gold nanowires due to the intrinsic nonlinearity of metals. New Journal of Physics, 2013, 15, 013033.	2.9	99
13	Mid-infrared supercontinuum generation in As <sub>2</sub> S <sub>3</sub> -silica nanospike-step-index waveguide. Optics Express, 2013, 21, 10969.	3.4	97
14	Influence of ionization on ultrafast gas-based nonlinear fiber optics. Optics Express, 2011, 19, 21018.	3.4	77
15	Extreme soliton pulsations in dissipative systems. Physical Review E, 2015, 92, 022926.	2.1	75
16	Mid-infrared supercontinuum generation in supercritical xenon-filled hollow-core negative curvature fibers. Optics Letters, 2016, 41, 5122.	3.3	62
17	Midinfrared frequency combs from coherent supercontinuum in chalcogenide and optical parametric oscillation. Optics Letters, 2014, 39, 2056.	3.3	57
18	Positive and negative curvatures nested in an antiresonant hollow-core fiber. Optics Letters, 2017, 42, 703.	3.3	56

#	ARTICLE	IF	CITATIONS
19	Spiny solitons and noise-like pulses. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1377.	2.1	45
20	Effect of the second ring of antiresonant tubes in negative-curvature fibers. Optics Express, 2020, 28, 1168.	3.4	44
21	Plasma-Induced Asymmetric Self-Phase Modulation and Modulational Instability in Gas-Filled Hollow-Core Photonic Crystal Fibers. Physical Review Letters, 2012, 109, 113902.	7.8	43
22	Creeping solitons in dissipative systems and their bifurcations. Physical Review E, 2007, 76, 016607.	2.1	42
23	Combined soliton pulse compression and plasma-related frequency upconversion in gas-filled photonic crystal fiber. Optics Letters, 2013, 38, 2984.	3.3	36
24	Observation of Coexisting Dissipative Solitons in a Mode-Locked Fiber Laser. Physical Review Letters, 2015, 115, 253903.	7.8	35
25	Empirical Formulae for Dispersion and Effective Mode Area in Hollow-Core Antiresonant Fibers. Journal of Lightwave Technology, 2018, 36, 4060-4065.	4.6	34
26	Extreme amplitude spikes in a laser model described by the complex Ginzburgâ€“Landau equation. Optics Letters, 2015, 40, 2949.	3.3	28
27	Raman-free nonlinear optical effects in high pressure gas-filled hollow core PCF. Optics Express, 2013, 21, 4405.	3.4	23
28	Effect of an external periodic potential on pairs of dissipative solitons. Physical Review A, 2009, 80, .	2.5	20
29	Anti-resonant hollow-core fiber fusion spliced to laser gain fiber for high-power beam delivery. Optics Letters, 2021, 46, 4374.	3.3	20
30	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.	2.1	17
31	Analyzing mode index mismatch and field overlap for light guidance in negative-curvature fibers. Optics Express, 2020, 28, 27974.	3.4	16
32	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.	2.1	13
33	Low-energy-threshold deep-ultraviolet generation in a small-mode-area hollow-core fiber. Photonics Research, 2021, 9, 590.	7.0	12
34	Understanding bending-induced loss and bending-enhanced higher-order mode suppression in negative curvature fibers. Optics Express, 2021, 29, 23622.	3.4	12
35	Midinfrared Pulse Generation by Pumping in the Normal-Dispersion Regime of a Gas-Filled Hollow-Core Fiber. Physical Review Applied, 2019, 12, .	3.8	11
36	Modulation instability in higher-order nonlinear SchrÃ¶dinger equations. Chaos, 2018, 28, 123116.	2.5	10

#	ARTICLE	IF	CITATIONS
37	Effect of decreasing pressure on soliton self-compression in higher-order modes of a gas-filled capillary. Optics Express, 2021, 29, 7070.	3.4	10
38	Influence of timing jitter on nonlinear dynamics of a photonic crystal fiber ring cavity. Optics Letters, 2012, 37, 3576.	3.3	9
39	Investigation of a Bragg Grating-Based Fabry-Perot Structure Inscribed Using Femtosecond Laser Micromachining in an Adiabatic Fiber Taper. Applied Sciences (Switzerland), 2020, 10, 1069.	2.5	9
40	Integration of an anti-resonant hollow-core fiber with a multimode Yb-doped fiber for high power near-diffraction-limited laser operation. Optics Express, 2022, 30, 7928.	3.4	9
41	Rogue wave fission. Physical Review Research, 2021, 3, .	3.6	7
42	Band-edge mediated frequency down-conversion in a gas-filled anti-resonant hollow-core fiber. Optics Letters, 2020, 45, 6815.	3.3	7
43	In-line hollow-core fiber-optic bandpass filter. Optics Letters, 2021, 46, 5918.	3.3	7
44	Dissipative solitons with extreme spikes in the normal and anomalous dispersion regimes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2018, 376, 20180023.	3.4	6
45	Geometrical Scaling of Antiresonant Hollow-Core Fibers for Mid-Infrared Beam Delivery. Crystals, 2021, 11, 420.	2.2	5
46	Antiresonant Hollow-Core Inline Fiber Polarizer. Journal of Lightwave Technology, 2022, 40, 5689-5697.	4.6	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. Nonlinear Dynamics, 2020, 99, 2265-2275.	5.2	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

#	ARTICLE	IF	CITATIONS
55	Emergence of breathers in non-linear pulse compression. Journal of Optics (United Kingdom), 2020, 22, 085502.	2.2	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.	1.2	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

#	ARTICLE	IF	CITATIONS
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.	0.2	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.	2.0	0