

# Binbin Zhou

## List of Publications by Year in descending order

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73  
papers

1,719  
citations

393982

19  
h-index

344852

36  
g-index

74  
all docs

74  
docs citations

74  
times ranked

1693  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mid-infrared supercontinuum covering the 1.4–13.3 $\mu\text{m}$ molecular fingerprint region using ultra-high NA chalcogenide step-index fibre. <i>Nature Photonics</i> , 2014, 8, 830-834.	15.6	811
2	Deep-UV to Mid-IR Supercontinuum Generation driven by Mid-IR Ultrashort Pulses in a Gas-filled Hollow-core Fiber. <i>Scientific Reports</i> , 2019, 9, 4446.	1.6	78
3	Octave-spanning supercontinuum generation in a silicon-rich nitride waveguide. <i>Optics Letters</i> , 2016, 41, 2719.	1.7	69
4	Ultra-low-noise supercontinuum generation with a flat near-zero normal dispersion fiber. <i>Optics Letters</i> , 2019, 44, 2216.	1.7	47
5	Optical Cherenkov radiation by cascaded nonlinear interaction: an efficient source of few-cycle energetic near- to mid-IR pulses. <i>Optics Express</i> , 2011, 19, 22557.	1.7	44
6	Generation of 210 fs laser pulses at 1093 nm by a self-starting mode-locked Yb:GYSO laser. <i>Optics Letters</i> , 2009, 34, 31.	1.7	41
7	High-efficiency diode-pumped femtosecond Yb:YAG ceramic laser. <i>Optics Letters</i> , 2010, 35, 288.	1.7	40
8	The anisotropic Kerr nonlinear refractive index of the beta-barium borate ( $\beta\text{-BaB}_2\text{O}_4$ ) nonlinear crystal. <i>Optical Materials Express</i> , 2013, 3, 357.	1.6	39
9	Terahertz spectroscopy from air plasmas created by two-color femtosecond laser pulses: The ALTESSE project. <i>Europhysics Letters</i> , 2019, 126, 24001.	0.7	39
10	Generating mid-IR octave-spanning supercontinua and few-cycle pulses with solitons in phase-mismatched quadratic nonlinear crystals. <i>Optical Materials Express</i> , 2013, 3, 1647.	1.6	38
11	Wavelength scaling of terahertz pulse energies delivered by two-color air plasmas. <i>Optics Letters</i> , 2019, 44, 1488.	1.7	38
12	Coherent supercontinuum bandwidth limitations under femtosecond pumping at 2 $\mu\text{m}$ in all-solid soft glass photonic crystal fibers. <i>Optics Express</i> , 2016, 24, 29406.	1.7	29
13	Terahertz time-domain spectroscopy of zone-folded acoustic phonons in 4H and 6H silicon carbide. <i>Optics Express</i> , 2019, 27, 3618.	1.7	29
14	High-power few-cycle THz generation at MHz repetition rates in an organic crystal. <i>APL Photonics</i> , 2020, 5, .	3.0	28
15	Invited Article: Multiple-octave spanning high-energy mid-IR supercontinuum generation in bulk quadratic nonlinear crystals. <i>APL Photonics</i> , 2016, 1, .	3.0	27
16	Diode-pumped passively mode-locked Yb:Y <sub>3</sub> Ga <sub>5</sub> O <sub>12</sub> laser. <i>Optics Letters</i> , 2009, 34, 3316.	1.7	26
17	Energetic mid-IR femtosecond pulse generation by self-defocusing soliton-induced dispersive waves in a bulk quadratic nonlinear crystal. <i>Optics Express</i> , 2015, 23, 6924.	1.7	25
18	Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. <i>2D Materials</i> , 2020, 7, 035009.	2.0	23

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19	Dispersive waves induced by self-defocusing temporal solitons in a beta-barium-borate crystal. <i>Optics Letters</i> , 2015, 40, 4257.	1.7	22
20	Resonant Laser Printing of Optical Metasurfaces. <i>Nano Letters</i> , 2022, 22, 2786-2792.	4.5	20
21	Reference-free THz-TDS conductivity analysis of thin conducting films. <i>Optics Express</i> , 2020, 28, 28819.	1.7	19
22	Soliton-induced nonlocal resonances observed through high-intensity tunable spectrally compressed second-harmonic peaks. <i>Physical Review A</i> , 2014, 90, .	1.0	18
23	Attenuation of THz Beams: A "How to" Tutorial. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019, 40, 878-904.	1.2	18
24	Nonlinear wave equation in frequency domain: accurate modeling of ultrafast interaction in anisotropic nonlinear media. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 494.	0.9	17
25	Supercontinuum generation in quadratic nonlinear waveguides without quasi-phase matching. <i>Optics Letters</i> , 2015, 40, 629.	1.7	17
26	MHz-repetition-rate, sub-mW, multi-octave THz wave generation in HMQ-TMS. <i>Optics Express</i> , 2020, 28, 9631.	1.7	16
27	Terahertz emission from laser-driven gas plasmas: a plasmonic point of view. <i>Optica</i> , 2018, 5, 1617.	4.8	15
28	Parametrically Tunable Soliton-Induced Resonant Radiation by Three-Wave Mixing. <i>Physical Review Letters</i> , 2017, 118, 143901.	2.9	13
29	Mid-IR femtosecond frequency conversion by soliton-probe collision in phase-mismatched quadratic nonlinear crystals. <i>Optics Letters</i> , 2015, 40, 3798.	1.7	12
30	Few-cycle solitons and supercontinuum generation with cascaded quadratic nonlinearities in unpoled lithium niobate ridge waveguides. <i>Optics Letters</i> , 2014, 39, 1105.	1.7	11
31	Soliton compression to few-cycle pulses with a high quality factor by engineering cascaded quadratic nonlinearities. <i>Optics Express</i> , 2012, 20, 27071.	1.7	10
32	Anomalous refraction and reflection characteristics of bend V-shaped antenna metasurfaces. <i>Scientific Reports</i> , 2019, 9, 6700.	1.6	10
33	Highly coherent mid-IR supercontinuum by self-defocusing solitons in lithium niobate waveguides with all-normal dispersion. <i>Optics Express</i> , 2014, 22, 12211.	1.7	6
34	Numerical and experimental investigation of a continuous-wave and passively mode-locked Yb:YAG laser at a wavelength of 1053 nm. <i>Applied Optics</i> , 2009, 48, 5978.	2.1	4
35	Synchronously pumped femtosecond optical parametric oscillator at 1053 nm. <i>Science in China Series C: Physics, Mechanics and Astronomy</i> , 2009, 52, 1187-1190.	0.2	3
36	All Solid-State Passively Mode-Locked Ultrafast Lasers Based on Nd, Yb, and Cr Doped Media. , 2012, , .		2

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37	High-efficiency Sub-single-cycle THz Wave Generation by Three-color Air Plasma. , 2018, , .		2
38	Self-starting mode-locked Cr: forsterite laser pumped by 1030 nm Yb: YAG laser. , 2007, , .		1
39	The experimental study of the continuous-wave mode-locked picosecond Yb:LSO laser. , 2009, , .		1
40	Wavelength conversion in a Ti:PPSMgLN channel waveguide. Optics Communications, 2009, 282, 2524-2526.	1.0	0
41	Picoseconds pulse generation with a Nd:GGG laser operating on quasi-three-level transition. , 2009, , .		0
42	Power stabilized femtosecond pulse generation by synchronously pumped optical parametric oscillator. , 2009, , .		0
43	Sub-20 fs energetic near-IR pulses generated with cascaded soliton compression in short lithium niobate crystals. , 2011, , .		0
44	High-energy Few-cycle Pulses Directly Generated from Strongly Phase-mismatched Lithium Niobate Crystal. , 2012, , .		0
45	Spectral Compression of Intense Femtosecond Pulses by Self Phase Modulation in Silica Glass. , 2012, , .		0
46	Critical Boundary of Cascaded Quadratic Soliton Compression in PPLN. , 2012, , .		0
47	Completely background free broadband coherent anti-Stokes Raman scattering spectroscopy. , 2013, , .		0
48	Cross-correlation frequency-resolved optical gating by molecular vibration for ultrashort pulse. , 2013, , .		0
49	Near- and Mid-IR few-cycle self-defocusing soliton compression in PPLN waveguide. , 2013, , .		0
50	The Kerr nonlinearity of the beta-barium borate crystal. , 2013, , .		0
51	Few-cycle nonlinear mid-IR pulse generated with cascaded quadratic nonlinearities. , 2013, , .		0
52	Soliton delay driven by cascading and Raman responses. , 2013, , .		0
53	Efficient Femtosecond Mid-infrared Pulse Generation by Dispersive Wave Radiation in Bulk Lithium Niobate Crystal. , 2014, , .		0
54	Octave-Spanning Mid-IR Supercontinuum Generation with Ultrafast Cascaded Nonlinearities. , 2014, , .		0

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55	Mid-Infrared Supercontinuum Generation Spanning More Than 11 $\mu\text{m}$ in a Chalcogenide Step-Index Fiber. , 2015, , .		0
56	Influence of dispersion of nonlinearity on coherent supercontinuum generation bandwidth in photonic crystal fibers pumped at 2 $\mu\text{m}$ . , 2017, , .		0
57	Bridging the gap between the THz and IR frequency regime. , 2017, , .		0
58	Ultra-broadband THz time-domain spectroscopy of energetic materials. , 2017, , .		0
59	Power Dependent Noise Performance of fs Supercontinuum Generation in Normal Dispersion Fibers with a Long Zero-Dispersion Wavelength. , 2019, , .		0
60	Generation of 1053-nm femtosecond pulses by Yb:YAG laser. , 2009, , .		0
61	Diode laser pumped efficient femtosecond Yb:YAG ceramic laser. , 2010, , .		0
62	Optical Cherenkov radiation by cascaded nonlinear interaction: an efficient source of few-cycle near-to mid-IR pulses. , 2011, , .		0
63	Cascaded Soliton Compression of Energetic Femtosecond Pulses at 1030 nm. , 2012, , .		0
64	Improving Soliton Compression Quality with Cascaded Nonlinearities by Engineered Multi-section Quasi-phase-matching Design. , 2012, , .		0
65	Observation of an Octave-Spanning Supercontinuum in the Mid-Infrared using Ultrafast Cascaded Nonlinearities. , 2014, , .		0
66	Low-energy Self-defocusing Soliton Compression at Optical Communication Wavelengths in Unpoled Lithium Niobate Ridge Waveguide. , 2014, , .		0
67	High-energy pulse compressor using self-defocusing spectral broadening in anomalously dispersive media. , 2014, , .		0
68	Experiments on Cascaded Quadratic Soliton Compression in Unpoled LN Waveguide. , 2014, , .		0
69	Octave-spanning Supercontinuum Generation in a Silicon-rich Nitride Waveguide. , 2016, , .		0
70	Ultrafast Nonlinear Response of Silicon Carbide to Intense THz Fields. , 2017, , .		0
71	Femtosecond supercontinuum generation with noisy pumps in normal dispersion fibers with zero crossings. , 2019, , .		0
72	Enhancing the Efficacy of Collinear Optical Rectification for Broadband THz Radiation at MHz Repetition Rates. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
73	Milliwatt-level multi-MHz THz wave generation in the organic crystal HMQTMS with a compressed fiber laser. , 2020, , .		0