Binbin Zhou

List of Publications by Year
in descending order

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73	1,719	393982	344852
papers	citations	19 h-index	36 g-index

74	74	74	1693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resonant Laser Printing of Optical Metasurfaces. Nano Letters, 2022, 22, 2786-2792.	4.5	20
2	High-power few-cycle THz generation at MHz repetition rates in an organic crystal. APL Photonics, 2020, 5, .	3.0	28
3	Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. 2D Materials, 2020, 7, 035009.	2.0	23
4	MHz-repetition-rate, sub-mW, multi-octave THz wave generation in HMQ-TMS. Optics Express, 2020, 28, 9631.	1.7	16
5	Reference-free THz-TDS conductivity analysis of thin conducting films. Optics Express, 2020, 28, 28819.	1.7	19
6	Enhancing the Efficacy of Collinear Optical Rectification for Broadband THz Radiation at MHz Repetition Rates. , 2020, , .		0
7	Milliwatt-level multi-MHz THz wave generation in the organic crystal HMQTMS with a compressed fiber laser. , 2020, , .		0
8	Attenuation of THz Beams: A â€œHow toâ€•Tutorial. Journal of Infrared, Millimeter, and Terahertz Waves, 2019, 40, 878-904.	1.2	18
9	Power Dependent Noise Performance of fs Supercontinuum Generation in Normal Dispersion Fibers with a Long Zero-Dispersion Wavelength. , 2019, , .		0
10	Terahertz spectroscopy from air plasmas created by two-color femtosecond laser pulses: The ALTESSE project. Europhysics Letters, 2019, 126, 24001.	0.7	39
11	Anomalous refraction and reflection characteristics of bend V-shaped antenna metasurfaces. Scientific Reports, 2019, 9, 6700.	1.6	10
12	Deep-UV to Mid-IR Supercontinuum Generation driven by Mid-IR Ultrashort Pulses in a Gas-filled Hollow-core Fiber. Scientific Reports, 2019, 9, 4446.	1.6	78
13	Terahertz time-domain spectroscopy of zone-folded acoustic phonons in 4H and 6H silicon carbide. Optics Express, 2019, 27, 3618.	1.7	29
14	Wavelength scaling of terahertz pulse energies delivered by two-color air plasmas. Optics Letters, 2019, 44, 1488.	1.7	38
15	Ultra-low-noise supercontinuum generation with a flat near-zero normal dispersion fiber. Optics Letters, 2019, 44, 2216.	1.7	47
16	Femtosecond supercontinuum generation with noisy pumps in normal dispersion fibers with zero crossings. , 2019, , .		0
17	High-efficiency Sub-single-cycle THz Wave Generation by Three-color Air Plasma. , 2018, , .		2
18	Terahertz emission from laser-driven gas plasmas: a plasmonic point of view. Optica, 2018, 5, 1617.	4.8	15

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19	Parametrically Tunable Soliton-Induced Resonant Radiation by Three-Wave Mixing. Physical Review Letters, 2017, 118, 143901.	2.9	13
20	Influence of dispersion of nonlinearity on coherent supercontinuum generation bandwidth in photonic crystal fibers pumped at 2 Î¼m. , 2017, , .		0
21	Bridging the gap between the THz and IR frequency regime. , 2017, , .		0
22	Ultra-broadband THz time-domain spectroscopy of energetic materials. , 2017, , .		0
23	Ultrafast Nonlinear Response of Silicon Carbide to Intense THz Fields. , 2017, , .		0
24	Coherent supercontinuum bandwidth limitations under femtosecond pumping at 2 Âµm in all-solid soft glass photonic crystal fibers. Optics Express, 2016, 24, 29406.	1.7	29
25	Invited Article: Multiple-octave spanning high-energy mid-IR supercontinuum generation in bulk quadratic nonlinear crystals. APL Photonics, 2016, 1, .	3.0	27
26	Octave-spanning supercontinuum generation in a silicon-rich nitride waveguide. Optics Letters, 2016, 41, 2719.	1.7	69
27	Octave-spanning Supercontinuum Generation in a Silicon-rich Nitride Waveguide. , 2016, , .		0
28	Supercontinuum generation in quadratic nonlinear waveguides without quasi-phase matching. Optics Letters, 2015, 40, 629.	1.7	17
29	Mid-IR femtosecond frequency conversion by soliton-probe collision in phase-mismatched quadratic nonlinear crystals. Optics Letters, 2015, 40, 3798.	1.7	12
30	Energetic mid-IR femtosecond pulse generation by self-defocusing soliton-induced dispersive waves in a bulk quadratic nonlinear crystal. Optics Express, 2015, 23, 6924.	1.7	25
31	Mid-Infrared Supercontinuum Generation Spanning More Than 11 Î¼m in a Chalcogenide Step-Index Fiber. , 2015, , .		0
32	Dispersive waves induced by self-defocusing temporal solitons in a beta-barium-borate crystal. Optics Letters, 2015, 40, 4257.	1.7	22
33	Few-cycle solitons and supercontinuum generation with cascaded quadratic nonlinearities in unpoled lithium niobate ridge waveguides. Optics Letters, 2014, 39, 1105.	1.7	11
34	Efficient Femtosecond Mid-infrared Pulse Generation by Dispersive Wave Radiation in Bulk Lithium Niobate Crystal. , 2014, , .		0
35	Highly coherent mid-IR supercontinuum by self-defocusing solitons in lithium niobate waveguides with all-normal dispersion. Optics Express, 2014, 22, 12211.	1.7	6
36	Octave-Spanning Mid-IR Supercontinuum Generation with Ultrafast Cascaded Nonlinearities. , 2014, , .		0

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37	Soliton-induced nonlocal resonances observed through high-intensity tunable spectrally compressed second-harmonic peaks. Physical Review A, 2014, 90, .	1.0	18
38	Mid-infrared supercontinuum covering the 1.4â€“13.3â€…Î¼m molecular fingerprint region using ultra-high NA chalcogenide step-index fibre. Nature Photonics, 2014, 8, 830-834.	15.6	811
39	Observation of an Octave-Spanning Supercontinuum in the Mid-Infrared using Ultrafast Cascaded Nonlinearities. , 2014, , .		0
40	Low-energy Self-defocusing Soliton Compression at Optical Communication Wavelengths in Unpoled Lithium Niobate Ridge Waveguide. , 2014, , .		0
41	High-energy pulse compressor using self-defocusing spectral broadening in anomalously dispersive media. , 2014, , .		0
42	Experiments on Cascaded Quadratic Soliton Compression in Unpoled LN Waveguide. , 2014, , .		0
43	Generating mid-IR octave-spanning supercontinua and few-cycle pulses with solitons in phase-mismatched quadratic nonlinear crystals. Optical Materials Express, 2013, 3, 1647.	1.6	38
44	The anisotropic Kerr nonlinear refractive index of the beta-barium borate (Î²-BaB_2O_4) nonlinear crystal. Optical Materials Express, 2013, 3, 357.	1.6	39
45	Nonlinear wave equation in frequency domain: accurate modeling of ultrafast interaction in anisotropic nonlinear media. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 494.	0.9	17
46	Completely background free broadband coherent anti-Stokes Raman scattering spectroscopy. , 2013, , .		0
47	Cross-correlation frequency-resolved optical gating by molecular vibration for ultrashort pulse. , 2013, , .		0
48	Near- and Mid-IR few-cycle self-defocusing soliton compression in PPLN waveguide. , 2013, , .		0
49	The Kerr nonlinearity of the beta-barium borate crystal. , 2013, , .		0
50	Few-cycle nonlinear mid-IR pulse generated with cascaded quadratic nonlinearities. , 2013, , .		0
51	Soliton delay driven by cascading and Raman responses. , 2013, , .		0
52	High-energy Few-cycle Pulses Directly Generated from Strongly Phase-mismatched Lithium Niobate Crystal. , 2012, , .		0
53	Soliton compression to few-cycle pulses with a high quality factor by engineering cascaded quadratic nonlinearities. Optics Express, 2012, 20, 27071.	1.7	10
54	Spectral Compression of Intense Femtosecond Pulses by Self Phase Modulation in Silica Glass. , 2012, , .		0

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55	All Solid-State Passively Mode-Locked Ultrafast Lasers Based on Nd, Yb, and Cr Doped Media. , 2012, , .		2
56	Critical Boundary of Cascaded Quadratic Soliton Compression in PPLN. , 2012, , .		0
57	Cascaded Soliton Compression of Energetic Femtosecond Pulses at 1030 nm. , 2012, , .		0
58	Improving Soliton Compression Quality with Cascaded Nonlinearities by Engineered Multi-section Quasi-phase-matching Design. , 2012, , .		0
59	Optical Cherenkov radiation by cascaded nonlinear interaction: an efficient source of few-cycle energetic near- to mid-IR pulses. Optics Express, 2011, 19, 22557.	1.7	44
60	Sub-20 fs energetic near-IR pulses generated with cascaded soliton compression in short lithium niobate crystals. , 2011, , .		0
61	Optical Cherenkov radiation by cascaded nonlinear interaction: an efficient source of few-cycle near- to mid-IR pulses. , 2011, , .		0
62	High-efficiency diode-pumped femtosecond Yb:YAG ceramic laser. Optics Letters, 2010, 35, 288.	1.7	40
63	Diode laser pumped efficient femtosecond Yb:YAG ceramic laser. , 2010, , .		0
64	Synchronously pumped femtosecond optical parametric oscillator at 1053 nm. Science in China Series G: Physics, Mechanics and Astronomy, 2009, 52, 1187-1190.	0.2	3
65	Wavelength conversion in a Ti:PPSMgLN channel waveguide. Optics Communications, 2009, 282, 2524-2526.	1.0	0
66	Picoseconds pulse generation with a Nd:GGG laser operating on quasi-three-level transition. , 2009, , .		0
67	Generation of 210 fs laser pulses at 1093 nm by a self-starting mode-locked Yb:GYSO laser. Optics Letters, 2009, 34, 31.	1.7	41
68	Diode-pumped passively mode-locked Yb:Y_3Ga_5O_12 laser. Optics Letters, 2009, 34, 3316.	1.7	26
69	Numerical and experimental investigation of a continuous-wave and passively mode-locked Yb:YAG laser at a wavelength of 105 Î¼m. Applied Optics, 2009, 48, 5978.	2.1	4
70	Power stabilized femtosecond pulse generation by synchronously pumped optical parametric oscillator. , 2009, , .		0
71	The experimental study of the continuous-wave mode-locked picosecond Yb:LSO laser. , 2009, , .		1
72	Generation of 1053-nm femtosecond pulses by Yb:YAG laser. , 2009, , .		0

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73	Self-starting mode-locked Cr: forsterite laser pumped by 1030 nm Yb: YAG laser. , 2007, , .		1