Alexander M Heidt

List of Publications by Year
in descending order

42 papers	1,648 citations	430874 18 h-index	501196 28 g-index
42 all docs	42 docs citations	42 times ranked	979 citing authors

#	ARTICLE	IF	CITATIONS
1	Reducing the noise of fiber supercontinuum sources to its limits by exploiting cascaded soliton and wave breaking nonlinear dynamics. Optica, 2022, 9, 352.	9.3	6
2	Ultrashort pulse formation from a thulium-doped fiber laser: Self-characterization and mapping. Optics Communications, 2021, 486, 126747.	2.1	5
3	Perspective on the next generation of ultra-low noise fiber supercontinuum sources and their emerging applications in spectroscopy, imaging, and ultrafast photonics. Applied Physics Letters, 2021, 118, .	3.3	28
4	Noise Fingerprints of Fiber Supercontinuum Sources. , 2021, , .		2
5	Temporal fine structure of all-normal dispersion fiber supercontinuum. , 2021, , .		0
6	Targeted single-beam CARS using phase-and-polarization shaping. , 2021, , .		0
7	Recent advances in supercontinuum generation in specialty optical fibers [Invited]. Journal of the Optical Society of America B: Optical Physics, 2021, 38, F90.	2.1	59
8	Low pump power coherent supercontinuum generation in heavy metal oxide solid-core photonic crystal fibers infiltrated with carbon tetrachloride covering 930â€“2500â€…nm. Optics Express, 2021, 29, 39586.	3.4	17
9	Low noise all-fiber amplification of a coherent supercontinuum at 2 Âµm and its limits imposed by polarization noise. Scientific Reports, 2020, 10, 16734.	3.3	19
10	Generalized spectral phase-only time-domain ptychographic phase reconstruction applied in nonlinear microscopy. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A285.	2.1	9
11	Implementation of temporal ptychography algorithm, i²PIE, for improved single-beam coherent anti-Stokes Raman scattering measurements. Journal of the Optical Society of America B: Optical Physics, 2020, 37, A259.	2.1	11
12	Temporal fine structure of all-normal dispersion fiber supercontinuum pulses caused by non-ideal pump pulse shapes. Optics Express, 2020, 28, 16579.	3.4	17
13	Noise amplification in all-normal dispersion fiber supercontinuum generation and its impact on ultrafast photonics applications. OSA Continuum, 2020, 3, 2347.	1.8	9
14	Polarization-dependent relative intensity noise of fiber supercontinuum sources. EPJ Web of Conferences, 2020, 243, 17004.	0.3	0
15	Specialty Optical Fibers for Coherent and Low-Noise Supercontinuum Generation and their Application in Ultrafast Photonics. , 2020, , .		0
16	96 fs All-Fiber Polarization Maintaining Thulium Doped Amplifier Seeded by Coherent Supercontinuum. , 2019, , .		0
17	Ultra low-noise coherent supercontinuum amplification and compression below 100 fs in an all-fiber polarization-maintaining thulium fiber amplifier. Optics Express, 2019, 27, 35041.	3.4	34
18	Dispersion measurement of ultra-high numerical aperture fibers covering thulium, holmium, and erbium emission wavelengths. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 1301.	2.1	60

#	Article	IF	Citations
19	Non-invasive Excitation of Meter-scale Electric Discharges in Gas-filled Hollow-core Photonic Crystal Fibers. , 2018, , .		2
20	Low-noise supercontinuum sources based on all-normal dispersion fibers: exploring their prospects and limitations. , 2018, , .		0
21	Coherent supercontinuum generation in soft glass photonic crystal fibers. Photonics Research, 2017, 5, 710.	7.0	50
22	Limits of coherent supercontinuum generation in normal dispersion fibers. Journal of the Optical Society of America B: Optical Physics, 2017, 34, 764.	2.1	132
23	Femtosecond seeding of a Tm-Ho fiber amplifier by a broadband coherent supercontinuum pulse from an all-solid all-normal photonic crystal fiber. , 2017, , .		4
24	Improved retrieval of complex supercontinuum pulses from XFROG traces using a ptychographic algorithm. Optics Letters, 2016, 41, 4903.	3.3	25
25	Generation of Ultrashort and Coherent Supercontinuum Light Pulses in All-Normal Dispersion Fibers. , 2016, , 247-280.		11
26	High sensitivity gas detection using Hollow Core Photonic Bandgap Fibres designed for mid-IR operation. , 2014, , .		1
27	Low-loss and low-bend-sensitivity mid-infrared guidance in a hollow-coreâ€“photonic-bandgap fiber. Optics Letters, 2014, 39, 295.	3.3	65
28	High Power Diode-Seeded Fiber Amplifiers at 2 Î¼mâ€”From Architectures to Applications. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 525-536.	2.9	44
29	High stability soliton frequency-shifting mechanisms for laser synchronization applications. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 1257.	2.1	17
30	Nanoscale all-normal dispersion optical fibers for coherent supercontinuum generation at ultraviolet wavelengths. Optics Express, 2012, 20, 13777.	3.4	12
31	High-quality 3.6-fs pulses by compression of an octave-spanning supercontinuum. Proceedings of SPIE, 2012, , .	0.8	0
32	Supercontinuum generation in non-silica fibers. Optical Fiber Technology, 2012, 18, 327-344.	2.7	89
33	Mid-IR coherent supercontinuum generation in all-solid step-index soft glass fibers. , 2012, , .		0
34	Coherent octave spanning near-infrared and visible supercontinuum generation in all-normal dispersion photonic crystal fibers. Optics Express, 2011, 19, 3775.	3.4	261
35	Design of all-normal dispersion microstructured optical fibers for pulse-preserving supercontinuum generation. Optics Express, 2011, 19, 7742.	3.4	98
36	Pulse-preserving broadband visible supercontinuum generation in all-normal dispersion tapered suspended-core optical fibers. Optics Express, 2011, 19, 12275.	3.4	36

#	Article	IF	Citations
37	High quality sub-two cycle pulses from compression of supercontinuum generated in all-normal dispersion photonic crystal fiber. Optics Express, 2011, 19, 13873.	3.4	101
38	Generation of high quality, 13 cycle pulses by active phase control of an octave spanning supercontinuum. Optics Express, 2011, 19, 20151.	3.4	63
39	Pulse preserving flat-top supercontinuum generation in all-normal dispersion photonic crystal fibers. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 550.	2.1	254
40	Infrared, visible, and ultraviolet broadband coherent supercontinuum generation in all-normal dispersion fibers. Proceedings of SPIE, 2010, , .	0.8	3
41	Deep ultraviolet supercontinuum generation in optical nanofibers by femtosecond pulses at 400-nm wavelength. , 2010, , .		4
42	Efficient Adaptive Step Size Method for the Simulation of Supercontinuum Generation in Optical Fibers. Journal of Lightwave Technology, 2009, 27, 3984-3991.	4.6	100