

Benjamin Wetzel

List of Publications by Citations

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44
papers

1,779
citations

21
h-index

42
g-index

128
ext. papers

2,502
ext. citations

8.7
avg, IF

4.33
L-index

#	Paper	IF	Citations
44	On-chip generation of high-dimensional entangled quantum states and their coherent control. <i>Nature</i> , 2017 , 546, 622-626	50.4	294
43	Observation of Kuznetsov-Ma soliton dynamics in optical fibre. <i>Scientific Reports</i> , 2012 , 2, 463	4.9	282
42	Generation of multiphoton entangled quantum states by means of integrated frequency combs. <i>Science</i> , 2016 , 351, 1176-80	33.3	206
41	Real-time measurements of spontaneous breathers and rogue wave events in optical fibre modulation instability. <i>Nature Communications</i> , 2016 , 7, 13675	17.4	113
40	Real-time full bandwidth measurement of spectral noise in supercontinuum generation. <i>Scientific Reports</i> , 2012 , 2, 882	4.9	107
39	Real time noise and wavelength correlations in octave-spanning supercontinuum generation. <i>Optics Express</i> , 2013 , 21, 18452-60	3.3	71
38	Spectral dynamics of modulation instability described using Akhmediev breather theory. <i>Optics Letters</i> , 2011 , 36, 2140-2	3	69
37	Passively mode-locked laser with an ultra-narrow spectral width. <i>Nature Photonics</i> , 2017 , 11, 159-162	33.9	58
36	Laser cavity-soliton microcombs. <i>Nature Photonics</i> , 2019 , 13, 384-389	33.9	50
35	Akhmediev breather evolution in optical fiber for realistic initial conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 2029-2034	2.3	50
34	Cross-polarized photon-pair generation and bi-chromatically pumped optical parametric oscillation on a chip. <i>Nature Communications</i> , 2015 , 6, 8236	17.4	46
33	Femtosecond laser fabrication of micro and nano-disks in single layer graphene using vortex Bessel beams. <i>Applied Physics Letters</i> , 2013 , 103, 241111	3.4	39
32	Experimental Generation of Riemann Waves in Optics: A Route to Shock Wave Control. <i>Physical Review Letters</i> , 2016 , 117, 073902	7.4	33
31	Nonlinear Self-Action of Light through Biological Suspensions. <i>Physical Review Letters</i> , 2017 , 119, 058101	7.4	32
30	Describing supercontinuum noise and rogue wave statistics using higher-order moments. <i>Optics Communications</i> , 2012 , 285, 2451-2455	2	28
29	Incoherent resonant seeding of modulation instability in optical fiber. <i>Optics Letters</i> , 2013 , 38, 5338-41	3	26
28	Multifrequency sources of quantum correlated photon pairs on-chip: a path toward integrated Quantum Frequency Combs. <i>Nanophotonics</i> , 2016 , 5, 351-362	6.3	26

27	Optical force-induced nonlinearity and self-guiding of light in human red blood cell suspensions. <i>Light: Science and Applications</i> , 2019 , 8, 31	16.7	25
26	Noise and Chaos Contributions in Fast Random Bit Sequence Generated From Broadband Optoelectronic Entropy Sources. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014 , 61, 888-901	3.9	22
25	Customizing supercontinuum generation via on-chip adaptive temporal pulse-splitting. <i>Nature Communications</i> , 2018 , 9, 4884	17.4	22
24	Instability and noise-induced thermalization of Fermi-Pasta-Ulam recurrence in the nonlinear Schrödinger equation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 2750-2756	2.36	21
23	Limitations of the linear Raman gain approximation in modeling broadband nonlinear propagation in optical fibers. <i>Optics Express</i> , 2010 , 18, 25449-60	3.3	20
22	Practical system for the generation of pulsed quantum frequency combs. <i>Optics Express</i> , 2017 , 25, 18940-18948	3.5	18
21	Cherenkov Radiation Control via Self-accelerating Wave-packets. <i>Scientific Reports</i> , 2017 , 7, 8695	4.9	15
20	Bistability in an injection locked two color laser with dual injection. <i>Applied Physics Letters</i> , 2011 , 99, 011104	3.4	14
19	Optimal compression and energy confinement of optical Airy bullets. <i>Optics Express</i> , 2016 , 24, 26454-26463	3.5	14
18	Random walks and random numbers from supercontinuum generation. <i>Optics Express</i> , 2012 , 20, 11143-52	3.3	13
17	Efficient Optical Energy Harvesting in Self-Accelerating Beams. <i>Scientific Reports</i> , 2015 , 5, 13197	4.9	12
16	Observation of spectral self-imaging by nonlinear parabolic cross-phase modulation. <i>Optics Letters</i> , 2015 , 40, 5403-6	3	11
15	Optical generation and control of spatial Riemann waves. <i>Optics Letters</i> , 2019 , 44, 3542-3545	3	5
14	Complex Quantum State Generation and Coherent Control Based on Integrated Frequency Combs. <i>Journal of Lightwave Technology</i> , 2019 , 37, 338-344	4	5
13	Nonlinear optical response and self-trapping of light in biological suspensions. <i>Advances in Physics: X</i> , 2020 , 5, 1778526	5.1	4
12	On-chip frequency combs and telecommunications signal processing meet quantum optics. <i>Frontiers of Optoelectronics</i> , 2018 , 11, 134-147	2.8	4
11	Multichannel phase-sensitive amplification in a low-loss CMOS-compatible spiral waveguide. <i>Optics Letters</i> , 2017 , 42, 4391-4394	3	3
10	Thermo-optical pulsing in a microresonator filtered fiber-laser: a route towards all-optical control and synchronization. <i>Optics Express</i> , 2019 , 27, 19242-19254	3.3	3

9	Boosting and Taming Wave Breakup in Second Harmonic Generation. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	3
8	Analytical studies of modulation instability and nonlinear compression dynamics in optical fiber propagation 2011 ,		2
7	Third-order Riemann pulses in optical fibers. <i>Optics Express</i> , 2020 , 28, 39827-39840	3.3	2
6	Coherent combining of self-cleaned multimode beams. <i>Scientific Reports</i> , 2020 , 10, 20481	4.9	2
5	Kuznetsov-Ma Soliton Dynamics in Nonlinear Fiber Optics 2012 ,		1
4	Observation of 2D Spatiotemporal Rogue Events in a Quadratic Nonlinear Medium 2020 ,		1
3	Frequency-to-Time Mapping Technique for Direct Spectral Characterization of Biphoton States From Pulsed Spontaneous Parametric Processes 2022 , 3,		1
2	Autonomous on-chip interferometry for reconfigurable optical waveform generation. <i>Optica</i> , 2021 , 8, 1268	8.6	0
1	Recent advances on time-stretch dispersive Fourier transform and its applications. <i>Advances in Physics: X</i> , 2022 , 7,	5.1	0