

Goery Genty

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120
papers

8,796
citations

38
h-index

93
g-index

176
ext. papers

11,162
ext. citations

5.5
avg, IF

6.25
L-index

#	Paper	IF	Citations
120	Supercontinuum generation in photonic crystal fiber. <i>Reviews of Modern Physics</i> , 2006 , 78, 1135-1184	40.5	2655
119	The Peregrine soliton in nonlinear fibre optics. <i>Nature Physics</i> , 2010 , 6, 790-795	16.2	927
118	Instabilities, breathers and rogue waves in optics. <i>Nature Photonics</i> , 2014 , 8, 755-764	33.9	544
117	Modulation instability, Akhmediev Breathers and continuous wave supercontinuum generation. <i>Optics Express</i> , 2009 , 17, 21497-508	3.3	351
116	Observation of Kuznetsov-Ma soliton dynamics in optical fibre. <i>Scientific Reports</i> , 2012 , 2, 463	4.9	282
115	Harnessing and control of optical rogue waves in supercontinuum generation. <i>Optics Express</i> , 2008 , 16, 3644-51	3.3	229
114	Fiber supercontinuum sources (Invited). <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007 , 24, 1771	1.7	210
113	Roadmap on optical rogue waves and extreme events. <i>Journal of Optics (United Kingdom)</i> , 2016 , 18, 063001	1.7	167
112	Ghost imaging in the time domain. <i>Nature Photonics</i> , 2016 , 10, 167-170	33.9	160
111	Higher-order modulation instability in nonlinear fiber optics. <i>Physical Review Letters</i> , 2011 , 107, 253901	7.4	141
110	Effect of cross-phase modulation on supercontinuum generated in microstructured fibers with sub-30 fs pulses. <i>Optics Express</i> , 2004 , 12, 4614-24	3.3	141
109	Spectral broadening of femtosecond pulses into continuum radiation in microstructured fibers. <i>Optics Express</i> , 2002 , 10, 1083-98	3.3	131
108	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
107	Rogue-wave-like characteristics in femtosecond supercontinuum generation. <i>Optics Letters</i> , 2009 , 34, 2468-70	3	108
106	Supercontinuum generation in a highly birefringent microstructured fiber. <i>Applied Physics Letters</i> , 2003 , 82, 2197-2199	3.4	105
105	Rogue waves and analogies in optics and oceanography. <i>Nature Reviews Physics</i> , 2019 , 1, 675-689	23.6	103
104	Enhanced bandwidth of supercontinuum generated in microstructured fibers. <i>Optics Express</i> , 2004 , 12, 3471-80	3.3	97

103	Modulation control and spectral shaping of optical fiber supercontinuum generation in the picosecond regime. <i>Applied Physics B: Lasers and Optics</i> , 2009 , 94, 187-194	1.9	89
102	Nonlinear envelope equation modeling of sub-cycle dynamics and harmonic generation in nonlinear waveguides. <i>Optics Express</i> , 2007 , 15, 5382-7	3.3	88
101	Cascaded phase matching and nonlinear symmetry breaking in fiber frequency combs. <i>Physical Review Letters</i> , 2012 , 109, 223904	7.4	83
100	Collisions and turbulence in optical rogue wave formation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010 , 374, 989-996	2.3	82
99	Universality of the Peregrine Soliton in the Focusing Dynamics of the Cubic Nonlinear Schrödinger Equation. <i>Physical Review Letters</i> , 2017 , 119, 033901	7.4	76
98	Spatiotemporal rogue events in optical multiple filamentation. <i>Physical Review Letters</i> , 2013 , 111, 243903	7.4	72
97	Real time noise and wavelength correlations in octave-spanning supercontinuum generation. <i>Optics Express</i> , 2013 , 21, 18452-60	3.3	71
96	Emergent rogue wave structures and statistics in spontaneous modulation instability. <i>Scientific Reports</i> , 2015 , 5, 10380	4.9	69
95	Complete characterization of supercontinuum coherence. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2301	1.7	68
94	Nonlinear optics of fibre event horizons. <i>Nature Communications</i> , 2014 , 5, 4969	17.4	66
93	Machine learning and applications in ultrafast photonics. <i>Nature Photonics</i> , 2021 , 15, 91-101	33.9	62
92	Optical rogue waves in whispering-gallery-mode resonators. <i>Physical Review A</i> , 2014 , 89,	2.6	58
91	Size-controlled aerosol synthesis of silver nanoparticles for plasmonic materials. <i>Journal of Nanoparticle Research</i> , 2012 , 14, 870	2.3	55
90	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
89	On the statistical interpretation of optical rogue waves. <i>European Physical Journal: Special Topics</i> , 2010 , 185, 135-144	2.3	49
88	Strong second-harmonic generation in silicon nitride films. <i>Applied Physics Letters</i> , 2012 , 100, 161902	3.4	47
87	Machine learning analysis of extreme events in optical fibre modulation instability. <i>Nature Communications</i> , 2018 , 9, 4923	17.4	46
86	Direct detection of optical rogue wave energy statistics in supercontinuum generation. <i>Electronics Letters</i> , 2009 , 45, 217	1.1	45

85	Supercontinuum light. <i>Physics Today</i> , 2013 , 66, 29-34	0.9	42
84	Route to broadband blue-light generation in microstructured fibers. <i>Optics Letters</i> , 2005 , 30, 756-8	3	42
83	Giant dispersive wave generation through soliton collision. <i>Optics Letters</i> , 2010 , 35, 658-60	3	40
82	Supercontinuum generation in large mode-area microstructured fibers. <i>Optics Express</i> , 2005 , 13, 8625-33	3.3	38
81	Supercontinuum generation by nanosecond dual-wavelength pumping in microstructured optical fibers. <i>Optics Express</i> , 2006 , 14, 7914-23	3.3	37
80	Cavity enhanced absorption spectroscopy in the mid-infrared using a supercontinuum source. <i>Applied Physics Letters</i> , 2017 , 111, 061103	3.4	36
79	Second-order coherence of supercontinuum light. <i>Optics Letters</i> , 2010 , 35, 3057-9	3	36
78	Route to Coherent Supercontinuum Generation in the Long Pulse Regime. <i>IEEE Journal of Quantum Electronics</i> , 2009 , 45, 1331-1335	2	36
77	Efficient second-harmonic generation in silicon nitride resonant waveguide gratings. <i>Optics Letters</i> , 2012 , 37, 4269-71	3	32
76	Experimental signatures of dispersive waves emitted during soliton collisions. <i>Optics Express</i> , 2010 , 18, 13379-84	3.3	29
75	Caustics and Rogue Waves in an Optical Sea. <i>Scientific Reports</i> , 2015 , 5, 12822	4.9	28
74	Third-harmonic UV generation in silicon nitride nanostructures. <i>Optics Express</i> , 2013 , 21, 2012-7	3.3	28
73	Magnified time-domain ghost imaging. <i>APL Photonics</i> , 2017 , 2, 046102	5.2	26
72	Incoherent resonant seeding of modulation instability in optical fiber. <i>Optics Letters</i> , 2013 , 38, 5338-41	3	26
71	Analysis of the linewidth of a grating-feedback GaAlAs laser. <i>IEEE Journal of Quantum Electronics</i> , 2000 , 36, 1193-1198	2	26
70	Extreme events in optics: Challenges of the MANUREVA project. <i>European Physical Journal: Special Topics</i> , 2010 , 185, 125-133	2.3	25
69	Coherent-mode representation of supercontinuum. <i>Optics Letters</i> , 2012 , 37, 169-71	3	24
68	On the phase-dependent manifestation of optical rogue waves. <i>Nonlinearity</i> , 2012 , 25, R73-R83	1.7	24

67	Temporal ghost imaging with random fiber lasers. <i>Optics Express</i> , 2020 , 28, 9957-9964	3.3	23
66	Broadband cantilever-enhanced photoacoustic spectroscopy in the mid-IR using a supercontinuum. <i>Optics Letters</i> , 2018 , 43, 5094-5097	3	23
65	Experimental dynamics of Akhmediev breathers in a dispersion varying optical fiber. <i>Optics Letters</i> , 2014 , 39, 4490-3	3	22
64	Extreme-value statistics in supercontinuum generation by cascaded stimulated Raman scattering. <i>Optics Express</i> , 2010 , 18, 1234-9	3.3	22
63	Real-time characterization of spectral instabilities in a mode-locked fibre laser exhibiting soliton-similariton dynamics. <i>Scientific Reports</i> , 2019 , 9, 13950	4.9	21
62	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
61	Predicting ultrafast nonlinear dynamics in fibre optics with a recurrent neural network. <i>Nature Machine Intelligence</i> , 2021 , 3, 344-354	22.5	20
60	Recurrence phase shift in Fermi-Basta-Ulam nonlinear dynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 4158-4161	2.3	19
59	Supercontinuum spectral-domain ghost imaging. <i>Optics Letters</i> , 2018 , 43, 5025-5028	3	18
58	Elementary field representation of supercontinuum. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 21	1.7	17
57	Temporal ghost imaging using wavelength conversion and two-color detection. <i>Optica</i> , 2019 , 6, 902	8.6	17
56	Simultaneous fs pulse spectral broadening and third harmonic generation in highly nonlinear fibre: experiments and simulations. <i>Applied Physics B: Lasers and Optics</i> , 2008 , 91, 349-352	1.9	16
55	New method to improve the accuracy of group delay measurements using the phase-shift technique. <i>Optics Communications</i> , 2002 , 204, 119-126	2	16
54	Incoherent broadband cavity enhanced absorption spectroscopy using supercontinuum and superluminescent diode sources. <i>Optics Express</i> , 2015 , 23, 25225-34	3.3	15
53	Experimental Measurement of the Second-Order Coherence of Supercontinuum. <i>Physical Review Letters</i> , 2016 , 116, 243901	7.4	15
52	Giant enhancement of second-harmonic generation in multiple diffraction orders from sub-wavelength resonant waveguide grating. <i>Optics Express</i> , 2010 , 18, 12298-303	3.3	15
51	Recent Advances in Supercontinuum Generation in Specialty Fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> ,	1.7	13
50	Second-harmonic response of multilayer nanocomposites of silver-decorated nanoparticles and silica. <i>Scientific Reports</i> , 2014 , 4, 5745	4.9	11

49	Nonlinear spectral shaping and optical rogue events in fiber-based systems. <i>Optical Fiber Technology</i> , 2012 , 18, 248-256	2.4	11
48	Harmonic extended supercontinuum generation and carrier envelope phase dependent spectral broadening in silica nanowires. <i>Optics Express</i> , 2008 , 16, 10886-93	3.3	11
47	Instabilities in a dissipative soliton-similariton laser using a scalar iterative map. <i>Optics Letters</i> , 2020 , 45, 1232-1235	3	11
46	Low-noise octave-spanning mid-infrared supercontinuum generation in a multimode chalcogenide fiber. <i>Optics Letters</i> , 2020 , 45, 3103-3106	3	11
45	A merged photonic crystal slot waveguide embedded in ALD-TiO ₂ . <i>Optics Express</i> , 2013 , 21, 24154-62	3.3	9
44	Measurements of linewidth variations within external-cavity modes of a grating-cavity laser. <i>Optics Communications</i> , 2002 , 203, 295-300	2	9
43	Absorption and transmission spectral measurement of fiber-optic components using supercontinuum radiation. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 231-234	1.9	9
42	Supercontinuum generation: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, SG1	1.7	9
41	Short-range supercontinuum-based lidar for temperature profiling. <i>Optics Letters</i> , 2019 , 44, 4223-4226	3	9
40	Experimental Demonstration of Spectral Intensity Optical Coherence Tomography. <i>Scientific Reports</i> , 2016 , 6, 22126	4.9	9
39	Two-time coherence of pulse trains and the integrated degree of temporal coherence. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2015 , 32, 1631-7	1.8	8
38	High-speed stroboscopic imaging with frequency-doubled supercontinuum. <i>Optics Letters</i> , 2013 , 38, 658-60	3	8
37	Spectral control in anisotropic resonance-domain metamaterials. <i>Optics Letters</i> , 2011 , 36, 2375-7	3	8
36	Strength and symmetry of the third-order nonlinearity during poling of glass waveguides. <i>IEEE Photonics Technology Letters</i> , 2002 , 14, 1294-1296	2.2	8
35	Supercontinuum generation as a signal amplifier. <i>Optica</i> , 2015 , 2, 757	8.6	7
34	Efficiency of dispersive wave generation from a dual-frequency beat signal. <i>Optics Letters</i> , 2014 , 39, 5859-3	3	7
33	Broadband spatiotemporal Gaussian Schell-model pulse trains. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2014 , 31, 637-43	1.8	7
32	Tapered microstructured fibers for efficient coupling to optical waveguides: a numerical study. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 295-300	1.9	7

31	Machine learning analysis of rogue solitons in supercontinuum generation. <i>Scientific Reports</i> , 2020 , 10, 9596	4.9	7
30	Coherence of Supercontinuum Light. <i>Progress in Optics</i> , 2016 , 71-112	3.4	7
29	Ordered multilayer silica-metal nanocomposites for second-order nonlinear optics. <i>Applied Physics Letters</i> , 2013 , 103, 251907	3.4	6
28	Cascaded Bragg scattering in fiber optics. <i>Optics Letters</i> , 2013 , 38, 142-4	3	6
27	High-power short-wavelength infrared supercontinuum generation in multimode fluoride fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, A72	1.7	6
26	Extreme polarization-dependent supercontinuum generation in an uncladded silicon nitride waveguide. <i>Optics Express</i> , 2021 , 29, 21348-21357	3.3	6
25	Enhancement of second-harmonic generation from silicon nitride with gold gratings. <i>Optics Express</i> , 2015 , 23, 30695-700	3.3	5
24	Supercontinuum and gas cell in a single microstructured fiber. <i>Optics Letters</i> , 2005 , 30, 3380-2	3	5
23	Measurement of anomalous dispersion in microstructured fibers using spectral modulation. <i>Optics Express</i> , 2004 , 12, 929-34	3.3	5
22	Ghost optical coherence tomography. <i>Optics Express</i> , 2019 , 27, 24114-24122	3.3	5
21	Dispersive Fourier transform characterization of multipulse dissipative soliton complexes in a mode-locked soliton-similariton laser. <i>OSA Continuum</i> , 2020 , 3, 275	1.4	5
20	Single Shot Time Domain Ghost Imaging using Wavelength Multiplexing 2016 ,		4
19	Temporal coherence characterization of supercontinuum pulse trains using Michelson interferometer. <i>Applied Optics</i> , 2016 , 55, B72-7	1.7	4
18	Pump-soliton nonlinear wave mixing in noise-driven fiber supercontinuum generation. <i>Optics Letters</i> , 2011 , 36, 3870-2	3	3
17	Optical bistability and signal processing in a microstructured fiber ring resonator. <i>Applied Physics B: Lasers and Optics</i> , 2005 , 81, 357-362	1.9	3
16	Experimental demonstration of spectral domain computational ghost imaging. <i>Scientific Reports</i> , 2021 , 11, 8403	4.9	3
15	Two octave supercontinuum generation in a non-silica graded-index multimode fiber.. <i>Nature Communications</i> , 2022 , 13, 2126	17.4	3
14	Ultrafast Nonlinear Fibre Optics and Supercontinuum Generation 2013 , 177-193		2

13	Feed-forward neural network as nonlinear dynamics integrator for supercontinuum generation.. <i>Optics Letters</i> , 2022 , 47, 802-805	3	2
12	The Peregrine Breather on the Zero-Background Limit as the Two-Soliton Degenerate Solution: An Experimental Study. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	2
11	Intracavity incoherent supercontinuum dynamics and rogue waves in a broadband dissipative soliton laser. <i>Nature Communications</i> , 2021 , 12, 5567	17.4	2
10	Ultrafast simultaneous real time spectral and temporal measurements of fibre laser modelocking dynamics 2017 ,		1
9	Effect of coherence on all-optical signal amplification by supercontinuum generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018 , 35, 140	1.7	1
8	Experimental Measurement of Supercontinuum Second Order Coherence 2014 ,		1
7	Soliton Collision Induced Dispersive Wave Generation 2010 ,		1
6	Complete characterization of supercontinuum coherence properties 2011 ,		1
5	Interferometric autocorrelation measurements of supercontinuum based on two-photon absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 1320	1.7	1
4	Supercontinuum lidar for industrial process analysis. <i>Optics Express</i> , 2021 , 29, 42082	3.3	0
3	Supercontinuum intensity noise coupling in Fourier transform photoacoustic spectroscopy.. <i>Optics Letters</i> , 2022 , 47, 1713-1716	3	0
2	Recent advances on time-stretch dispersive Fourier transform and its applications. <i>Advances in Physics: X</i> , 2022 , 7,	5.1	0
1	Feed-forward neural network as nonlinear dynamics integrator for supercontinuum generation: erratum.. <i>Optics Letters</i> , 2022 , 47, 1741	3	