

# Goery Genty

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Feed-forward neural network as nonlinear dynamics integrator for supercontinuum generation.. <i>Optics Letters</i> , <b>2022</b> , 47, 802-805	3	2
119	Feed-forward neural network as nonlinear dynamics integrator for supercontinuum generation: erratum.. <i>Optics Letters</i> , <b>2022</b> , 47, 1741	3	
118	Supercontinuum intensity noise coupling in Fourier transform photoacoustic spectroscopy.. <i>Optics Letters</i> , <b>2022</b> , 47, 1713-1716	3	0
117	Two octave supercontinuum generation in a non-silica graded-index multimode fiber.. <i>Nature Communications</i> , <b>2022</b> , 13, 2126	17.4	3
116	Recent advances on time-stretch dispersive Fourier transform and its applications. <i>Advances in Physics: X</i> , <b>2022</b> , 7,	5.1	0
115	Supercontinuum lidar for industrial process analysis. <i>Optics Express</i> , <b>2021</b> , 29, 42082	3.3	0
114	Experimental demonstration of spectral domain computational ghost imaging. <i>Scientific Reports</i> , <b>2021</b> , 11, 8403	4.9	3
113	Extreme polarization-dependent supercontinuum generation in an uncladded silicon nitride waveguide. <i>Optics Express</i> , <b>2021</b> , 29, 21348-21357	3.3	6
112	Machine learning and applications in ultrafast photonics. <i>Nature Photonics</i> , <b>2021</b> , 15, 91-101	33.9	62
111	Predicting ultrafast nonlinear dynamics in fibre optics with a recurrent neural network. <i>Nature Machine Intelligence</i> , <b>2021</b> , 3, 344-354	22.5	20
110	The Peregrine Breather on the Zero-Background Limit as the Two-Soliton Degenerate Solution: An Experimental Study. <i>Frontiers in Physics</i> , <b>2021</b> , 9,	3.9	2
109	Intracavity incoherent supercontinuum dynamics and rogue waves in a broadband dissipative soliton laser. <i>Nature Communications</i> , <b>2021</b> , 12, 5567	17.4	2
108	Temporal ghost imaging with random fiber lasers. <i>Optics Express</i> , <b>2020</b> , 28, 9957-9964	3.3	23
107	Instabilities in a dissipative soliton-similariton laser using a scalar iterative map. <i>Optics Letters</i> , <b>2020</b> , 45, 1232-1235	3	11
106	Low-noise octave-spanning mid-infrared supercontinuum generation in a multimode chalcogenide fiber. <i>Optics Letters</i> , <b>2020</b> , 45, 3103-3106	3	11
105	Dispersive Fourier transform characterization of multipulse dissipative soliton complexes in a mode-locked soliton-similariton laser. <i>OSA Continuum</i> , <b>2020</b> , 3, 275	1.4	5
104	Machine learning analysis of rogue solitons in supercontinuum generation. <i>Scientific Reports</i> , <b>2020</b> , 10, 9596	4.9	7

103	Real-time characterization of spectral instabilities in a mode-locked fibre laser exhibiting soliton-similariton dynamics. <i>Scientific Reports</i> , <b>2019</b> , 9, 13950	4.9	21
102	High-power short-wavelength infrared supercontinuum generation in multimode fluoride fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, A72	1.7	6
101	Supercontinuum generation: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, SG1	1.7	9
100	Ghost optical coherence tomography. <i>Optics Express</i> , <b>2019</b> , 27, 24114-24122	3.3	5
99	Short-range supercontinuum-based lidar for temperature profiling. <i>Optics Letters</i> , <b>2019</b> , 44, 4223-4226	3	9
98	Temporal ghost imaging using wavelength conversion and two-color detection. <i>Optica</i> , <b>2019</b> , 6, 902	8.6	17
97	Interferometric autocorrelation measurements of supercontinuum based on two-photon absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 1320	1.7	1
96	Rogue waves and analogies in optics and oceanography. <i>Nature Reviews Physics</i> , <b>2019</b> , 1, 675-689	23.6	103
95	Effect of coherence on all-optical signal amplification by supercontinuum generation. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2018</b> , 35, 140	1.7	1
94	Supercontinuum spectral-domain ghost imaging. <i>Optics Letters</i> , <b>2018</b> , 43, 5025-5028	3	18
93	Broadband cantilever-enhanced photoacoustic spectroscopy in the mid-IR using a supercontinuum. <i>Optics Letters</i> , <b>2018</b> , 43, 5094-5097	3	23
92	Machine learning analysis of extreme events in optical fibre modulation instability. <i>Nature Communications</i> , <b>2018</b> , 9, 4923	17.4	46
91	Magnified time-domain ghost imaging. <i>APL Photonics</i> , <b>2017</b> , 2, 046102	5.2	26
90	Ultrafast simultaneous real time spectral and temporal measurements of fibre laser modelocking dynamics <b>2017</b> ,		1
89	Universality of the Peregrine Soliton in the Focusing Dynamics of the Cubic Nonlinear Schrödinger Equation. <i>Physical Review Letters</i> , <b>2017</b> , 119, 033901	7.4	76
88	Cavity enhanced absorption spectroscopy in the mid-infrared using a supercontinuum source. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 061103	3.4	36
87	Experimental Measurement of the Second-Order Coherence of Supercontinuum. <i>Physical Review Letters</i> , <b>2016</b> , 116, 243901	7.4	15
86	Ghost imaging in the time domain. <i>Nature Photonics</i> , <b>2016</b> , 10, 167-170	33.9	160

85	Single Shot Time Domain Ghost Imaging using Wavelength Multiplexing <b>2016</b> ,		4
84	Experimental Demonstration of Spectral Intensity Optical Coherence Tomography. <i>Scientific Reports</i> , <b>2016</b> , 6, 22126	4.9	9
83	Real-time measurements of spontaneous breathers and rogue wave events in optical fibre modulation instability. <i>Nature Communications</i> , <b>2016</b> , 7, 13675	17.4	113
82	Roadmap on optical rogue waves and extreme events. <i>Journal of Optics (United Kingdom)</i> , <b>2016</b> , 18, 063001	17.4	167
81	Temporal coherence characterization of supercontinuum pulse trains using Michelson interferometer. <i>Applied Optics</i> , <b>2016</b> , 55, B72-7	1.7	4
80	Coherence of Supercontinuum Light. <i>Progress in Optics</i> , <b>2016</b> , 71-112	3.4	7
79	Supercontinuum generation as a signal amplifier. <i>Optica</i> , <b>2015</b> , 2, 757	8.6	7
78	Incoherent broadband cavity enhanced absorption spectroscopy using supercontinuum and superluminescent diode sources. <i>Optics Express</i> , <b>2015</b> , 23, 25225-34	3.3	15
77	Caustics and Rogue Waves in an Optical Sea. <i>Scientific Reports</i> , <b>2015</b> , 5, 12822	4.9	28
76	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> , <b>2015</b> , 32, 1631-7	1.8	8
75	Emergent rogue wave structures and statistics in spontaneous modulation instability. <i>Scientific Reports</i> , <b>2015</b> , 5, 10380	4.9	69
74	Enhancement of second-harmonic generation from silicon nitride with gold gratings. <i>Optics Express</i> , <b>2015</b> , 23, 30695-700	3.3	5
73	Second-harmonic response of multilayer nanocomposites of silver-decorated nanoparticles and silica. <i>Scientific Reports</i> , <b>2014</b> , 4, 5745	4.9	11
72	Optical rogue waves in whispering-gallery-mode resonators. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	58
71	Instabilities, breathers and rogue waves in optics. <i>Nature Photonics</i> , <b>2014</b> , 8, 755-764	33.9	544
70	Nonlinear optics of fibre event horizons. <i>Nature Communications</i> , <b>2014</b> , 5, 4969	17.4	66
69	Experimental dynamics of Akhmediev breathers in a dispersion varying optical fiber. <i>Optics Letters</i> , <b>2014</b> , 39, 4490-3	3	22
68	Efficiency of dispersive wave generation from a dual-frequency beat signal. <i>Optics Letters</i> , <b>2014</b> , 39, 5850-3	3	7

67	Broadband spatiotemporal Gaussian Schell-model pulse trains. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2014</b> , 31, 637-43	1.8	7
66	Experimental Measurement of Supercontinuum Second Order Coherence <b>2014</b> ,		1
65	Spatiotemporal rogue events in optical multiple filamentation. <i>Physical Review Letters</i> , <b>2013</b> , 111, 243903-4	3.4	72
64	Ultrafast Nonlinear Fibre Optics and Supercontinuum Generation <b>2013</b> , 177-193		2
63	Supercontinuum light. <i>Physics Today</i> , <b>2013</b> , 66, 29-34	0.9	42
62	Elementary field representation of supercontinuum. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 21	1.7	17
61	High-speed stroboscopic imaging with frequency-doubled supercontinuum. <i>Optics Letters</i> , <b>2013</b> , 38, 658-60	3	8
60	Third-harmonic UV generation in silicon nitride nanostructures. <i>Optics Express</i> , <b>2013</b> , 21, 2012-7	3.3	28
59	Real time noise and wavelength correlations in octave-spanning supercontinuum generation. <i>Optics Express</i> , <b>2013</b> , 21, 18452-60	3.3	71
58	A merged photonic crystal slot waveguide embedded in ALD-TiO <sub>2</sub> <i>Optics Express</i> , <b>2013</b> , 21, 24154-62	3.3	9
57	Ordered multilayer silica-metal nanocomposites for second-order nonlinear optics. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 251907	3.4	6
56	Incoherent resonant seeding of modulation instability in optical fiber. <i>Optics Letters</i> , <b>2013</b> , 38, 5338-41	3	26
55	Cascaded Bragg scattering in fiber optics. <i>Optics Letters</i> , <b>2013</b> , 38, 142-4	3	6
54	Nonlinear spectral shaping and optical rogue events in fiber-based systems. <i>Optical Fiber Technology</i> , <b>2012</b> , 18, 248-256	2.4	11
53	Observation of Kuznetsov-Ma soliton dynamics in optical fibre. <i>Scientific Reports</i> , <b>2012</b> , 2, 463	4.9	282
52	Cascaded phase matching and nonlinear symmetry breaking in fiber frequency combs. <i>Physical Review Letters</i> , <b>2012</b> , 109, 223904	7.4	83
51	Size-controlled aerosol synthesis of silver nanoparticles for plasmonic materials. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 870	2.3	55
50	Coherent-mode representation of supercontinuum. <i>Optics Letters</i> , <b>2012</b> , 37, 169-71	3	24

49	Efficient second-harmonic generation in silicon nitride resonant waveguide gratings. <i>Optics Letters</i> , <b>2012</b> , 37, 4269-71	3	32
48	On the phase-dependent manifestation of optical rogue waves. <i>Nonlinearity</i> , <b>2012</b> , 25, R73-R83	1.7	24
47	Strong second-harmonic generation in silicon nitride films. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 161902	3.4	47
46	Higher-order modulation instability in nonlinear fiber optics. <i>Physical Review Letters</i> , <b>2011</b> , 107, 253901	7.4	141
45	Complete characterization of supercontinuum coherence. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2011</b> , 28, 2301	1.7	68
44	Spectral control in anisotropic resonance-domain metamaterials. <i>Optics Letters</i> , <b>2011</b> , 36, 2375-7	3	8
43	Pump-soliton nonlinear wave mixing in noise-driven fiber supercontinuum generation. <i>Optics Letters</i> , <b>2011</b> , 36, 3870-2	3	3
42	Recurrence phase shift in Fermi-Basta-Dlam nonlinear dynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 4158-4161	2.3	19
41	Akhmediev breather evolution in optical fiber for realistic initial conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 2029-2034	2.3	50
40	Complete characterization of supercontinuum coherence properties <b>2011</b> ,		1
39	The Peregrine soliton in nonlinear fibre optics. <i>Nature Physics</i> , <b>2010</b> , 6, 790-795	16.2	927
38	Soliton Collision Induced Dispersive Wave Generation <b>2010</b> ,		1
37	Giant enhancement of second-harmonic generation in multiple diffraction orders from sub-wavelength resonant waveguide grating. <i>Optics Express</i> , <b>2010</b> , 18, 12298-303	3.3	15
36	Experimental signatures of dispersive waves emitted during soliton collisions. <i>Optics Express</i> , <b>2010</b> , 18, 13379-84	3.3	29
35	Limitations of the linear Raman gain approximation in modeling broadband nonlinear propagation in optical fibers. <i>Optics Express</i> , <b>2010</b> , 18, 25449-60	3.3	20
34	Giant dispersive wave generation through soliton collision. <i>Optics Letters</i> , <b>2010</b> , 35, 658-60	3	40
33	Second-order coherence of supercontinuum light. <i>Optics Letters</i> , <b>2010</b> , 35, 3057-9	3	36
32	Extreme-value statistics in supercontinuum generation by cascaded stimulated Raman scattering. <i>Optics Express</i> , <b>2010</b> , 18, 1234-9	3.3	22

31	Extreme events in optics: Challenges of the MANUREVA project. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 185, 125-133	2.3	25
30	On the statistical interpretation of optical rogue waves. <i>European Physical Journal: Special Topics</i> , <b>2010</b> , 185, 135-144	2.3	49
29	Collisions and turbulence in optical rogue wave formation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2010</b> , 374, 989-996	2.3	82
28	Direct detection of optical rogue wave energy statistics in supercontinuum generation. <i>Electronics Letters</i> , <b>2009</b> , 45, 217	1.1	45
27	Modulation control and spectral shaping of optical fiber supercontinuum generation in the picosecond regime. <i>Applied Physics B: Lasers and Optics</i> , <b>2009</b> , 94, 187-194	1.9	89
26	Rogue-wave-like characteristics in femtosecond supercontinuum generation. <i>Optics Letters</i> , <b>2009</b> , 34, 2468-70	3	108
25	Modulation instability, Akhmediev Breathers and continuous wave supercontinuum generation. <i>Optics Express</i> , <b>2009</b> , 17, 21497-508	3.3	351
24	Route to Coherent Supercontinuum Generation in the Long Pulse Regime. <i>IEEE Journal of Quantum Electronics</i> , <b>2009</b> , 45, 1331-1335	2	36
23	Harnessing and control of optical rogue waves in supercontinuum generation. <i>Optics Express</i> , <b>2008</b> , 16, 3644-51	3.3	229
22	Harmonic extended supercontinuum generation and carrier envelope phase dependent spectral broadening in silica nanowires. <i>Optics Express</i> , <b>2008</b> , 16, 10886-93	3.3	11
21	Simultaneous fs pulse spectral broadening and third harmonic generation in highly nonlinear fibre: experiments and simulations. <i>Applied Physics B: Lasers and Optics</i> , <b>2008</b> , 91, 349-352	1.9	16
20	Fiber supercontinuum sources (Invited). <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2007</b> , 24, 1771	1.7	210
19	Nonlinear envelope equation modeling of sub-cycle dynamics and harmonic generation in nonlinear waveguides. <i>Optics Express</i> , <b>2007</b> , 15, 5382-7	3.3	88
18	Supercontinuum generation by nanosecond dual-wavelength pumping in microstructured optical fibers. <i>Optics Express</i> , <b>2006</b> , 14, 7914-23	3.3	37
17	Supercontinuum generation in photonic crystal fiber. <i>Reviews of Modern Physics</i> , <b>2006</b> , 78, 1135-1184	40.5	2655
16	Supercontinuum generation in large mode-area microstructured fibers. <i>Optics Express</i> , <b>2005</b> , 13, 8625-33	3.3	38
15	Route to broadband blue-light generation in microstructured fibers. <i>Optics Letters</i> , <b>2005</b> , 30, 756-8	3	42
14	Supercontinuum and gas cell in a single microstructured fiber. <i>Optics Letters</i> , <b>2005</b> , 30, 3380-2	3	5

13	Tapered microstructured fibers for efficient coupling to optical waveguides: a numerical study. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 295-300	1.9	7
12	Optical bistability and signal processing in a microstructured fiber ring resonator. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 357-362	1.9	3
11	Absorption and transmission spectral measurement of fiber-optic components using supercontinuum radiation. <i>Applied Physics B: Lasers and Optics</i> , <b>2005</b> , 81, 231-234	1.9	9
10	Measurement of anomalous dispersion in microstructured fibers using spectral modulation. <i>Optics Express</i> , <b>2004</b> , 12, 929-34	3.3	5
9	Enhanced bandwidth of supercontinuum generated in microstructured fibers. <i>Optics Express</i> , <b>2004</b> , 12, 3471-80	3.3	97
8	Effect of cross-phase modulation on supercontinuum generated in microstructured fibers with sub-30 fs pulses. <i>Optics Express</i> , <b>2004</b> , 12, 4614-24	3.3	141
7	Supercontinuum generation in a highly birefringent microstructured fiber. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2197-2199	3.4	105
6	Measurements of linewidth variations within external-cavity modes of a grating-cavity laser. <i>Optics Communications</i> , <b>2002</b> , 203, 295-300	2	9
5	New method to improve the accuracy of group delay measurements using the phase-shift technique. <i>Optics Communications</i> , <b>2002</b> , 204, 119-126	2	16
4	Spectral broadening of femtosecond pulses into continuum radiation in microstructured fibers. <i>Optics Express</i> , <b>2002</b> , 10, 1083-98	3.3	131
3	Strength and symmetry of the third-order nonlinearity during poling of glass waveguides. <i>IEEE Photonics Technology Letters</i> , <b>2002</b> , 14, 1294-1296	2.2	8
2	Analysis of the linewidth of a grating-feedback GaAlAs laser. <i>IEEE Journal of Quantum Electronics</i> , <b>2000</b> , 36, 1193-1198	2	26
1	Recent Advances in Supercontinuum Generation in Specialty Fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> ,	1.7	13