

# Logan G Wright

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1290999/publications.pdf>

Version: 2024-02-01

31  
papers

2,769  
citations

361045

20  
h-index

610482

24  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1274  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spatiotemporal mode-locking in multimode fiber lasers. <i>Science</i> , 2017, 358, 94-97.	6.0	383
2	Controllable spatiotemporal nonlinear effects in multimode fibres. <i>Nature Photonics</i> , 2015, 9, 306-310.	15.6	322
3	Deep physical neural networks trained with backpropagation. <i>Nature</i> , 2022, 601, 549-555.	13.7	219
4	Self-organized instability in graded-index multimode fibres. <i>Nature Photonics</i> , 2016, 10, 771-776.	15.6	186
5	Kerr self-cleaning of femtosecond-pulsed beams in graded-index multimode fiber. <i>Optics Letters</i> , 2016, 41, 3675.	1.7	182
6	Spatiotemporal dynamics of multimode optical solitons. <i>Optics Express</i> , 2015, 23, 3492.	1.7	168
7	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. <i>Physical Review Letters</i> , 2015, 115, 223902.	2.9	158
8	Several new directions for ultrafast fiber lasers [Invited]. <i>Optics Express</i> , 2018, 26, 9432.	1.7	142
9	Megawatt peak power from a Mamyshev oscillator. <i>Optica</i> , 2017, 4, 649.	4.8	139
10	Multimode Nonlinear Fiber Optics: Massively Parallel Numerical Solver, Tutorial, and Outlook. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-16.	1.9	130
11	Generation of intense 100-fs solitons tunable from 2 to 43 $\mu\text{m}$ in fluoride fiber. <i>Optica</i> , 2016, 3, 948.	3.8	126
12	Mechanisms of spatiotemporal mode-locking. <i>Nature Physics</i> , 2020, 16, 565-570.	6.5	112
13	Ultrafast fiber lasers based on self-similar pulse evolution: a review of current progress. <i>Reports on Progress in Physics</i> , 2015, 78, 113901.	8.1	107
14	An optical neural network using less than 1 photon per multiplication. <i>Nature Communications</i> , 2022, 13, 123.	5.8	77
15	Self-seeded, multi-megawatt, Mamyshev oscillator. <i>Optics Letters</i> , 2018, 43, 2672.	1.7	73
16	Observation of multimode solitons in few-mode fiber. <i>Optics Letters</i> , 2016, 41, 4819.	1.7	52
17	Direct observations of thermalization to a Rayleigh-Jeans distribution in multimode optical fibres. <i>Nature Physics</i> , 2022, 18, 685-690.	6.5	50
18	High-power femtosecond pulses without a modelocked laser. <i>Optica</i> , 2017, 4, 831.	4.8	44

#	ARTICLE	IF	CITATIONS
19	Engineering a Kerr-Based Deterministic Cubic Phase Gate via Gaussian Operations. Physical Review Letters, 2020, 124, 240503.	2.9	32
20	Nonlinear multimode photonics: nonlinear optics with many degrees of freedom. Optica, 2022, 9, 824.	4.8	26
21	Divided-pulse lasers. Optics Letters, 2014, 39, 2775.	1.7	20
22	Deep nonlinear ablation of silicon with a quasi-continuous wave fiber laser at 1070Ånm. Optics Letters, 2013, 38, 1799.	1.7	10
23	Onset of non-Gaussian quantum physics in pulsed squeezing with mesoscopic fields. Optica, 2022, 9, 379.	4.8	5
24	Exotic waves in multimode hollow-core fibres. Nature Photonics, 2020, 14, 713-714.	15.6	3
25	Ultrafast Kerr-Driven Beam Cleanup in Graded-Index Multimode Fiber. , 2017, , .		2
26	A Photonic Neural Network Using < 1 Photon per Scalar Multiplication. , 2021, , .		1
27	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. , 2016, , .		0
28	Self-Organized Instability in Nonlinear Graded-Index Multimode Fiber With Disorder. , 2016, , .		0
29	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. , 2016, , .		0
30	Self-Cleaning of Femtosecond-Pulsed Beams in Graded-Index Multimode Fiber. , 2016, , .		0
31	Spatiotemporal Mode-Locking as Multidimensional Optimization. , 2019, , .		0