

# Frank W Wise

## 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.

41  
papers

3,054  
citations

23  
h-index

55  
g-index

61  
ext. papers

4,093  
ext. citations

10.2  
avg, IF

5.61  
L-index

#	Paper	IF	Citations
41	Multimode Mamyshev oscillator.. <i>Optics Letters</i> , <b>2022</b> , 47, 46-49	3	5
40	Synchronously pumped Raman laser for simultaneous degenerate and nondegenerate two-photon microscopy. <i>Biomedical Optics Express</i> , <b>2021</b> , 12, 2496-2507	3.5	1
39	Integrated sample-handling and mounting system for fixed-target serial synchrotron crystallography. <i>Acta Crystallographica Section D: Structural Biology</i> , <b>2021</b> , 77, 628-644	5.5	3
38	Weak beam self-cleaning of femtosecond pulses in the anomalous dispersion regime. <i>Optics Letters</i> , <b>2021</b> , 46, 3312-3315	3	1
37	Starting Dynamics of a Linear-Cavity Femtosecond Mamyshev Oscillator. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2021</b> , 38, 743-748	1.7	12
36	Mechanisms of spatiotemporal mode-locking. <i>Nature Physics</i> , <b>2020</b> , 16, 565-570	16.2	37
35	Design guidelines for normal-dispersion fiber optical parametric chirped-pulse amplifiers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 1790-1805	1.7	1
34	Nonlinear ultrafast fiber amplifiers beyond the gain-narrowing limit. <i>Optica</i> , <b>2019</b> , 6, 1328-1333	8.6	28
33	Composite film with anisotropically enhanced optical nonlinearity for a pulse-width tunable fiber laser. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1126-1135	7.1	12
32	Multimode Nonlinear Fiber Optics: Massively Parallel Numerical Solver, Tutorial, and Outlook. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2018</b> , 24, 1-16	3.8	66
31	In-Band Noise Filtering via Spatio-Spectral Coupling. <i>Laser and Photonics Reviews</i> , <b>2018</b> , 12, 1700316	8.3	7
30	Several new directions for ultrafast fiber lasers [Invited]. <i>Optics Express</i> , <b>2018</b> , 26, 9432-9463	3.3	89
29	Broadband hyperspectral stimulated Raman scattering microscopy with a parabolic fiber amplifier source. <i>Biomedical Optics Express</i> , <b>2018</b> , 9, 6116-6131	3.5	32
28	Spatiotemporal mode-locking in multimode fiber lasers. <i>Science</i> , <b>2017</b> , 358, 94-97	33.3	200
27	Colloidal nanocrystals: Virtues of defects. <i>Nature Materials</i> , <b>2017</b> , 17, 8-9	27	1
26	Limits of Femtosecond Fiber Amplification by Parabolic Pre-Shaping. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, A37-A42	1.7	6
25	Megawatt peak power from a Mamyshev oscillator. <i>Optica</i> , <b>2017</b> , 4, 649-654	8.6	73

24	High-power femtosecond pulses without a modelocked laser. <i>Optica</i> , <b>2017</b> , 4, 831-834	8.6	30
23	Propagation of Structural Disorder in Epitaxially Connected Quantum Dot Solids from Atomic to Micron Scale. <i>Nano Letters</i> , <b>2016</b> , 16, 5714-8	11.5	34
22	Self-organized instability in graded-index multimode fibres. <i>Nature Photonics</i> , <b>2016</b> , 10, 771-776	33.9	109
21	Colloidal Synthesis of PbS and PbS/CdS Nanosheets Using Acetate-Free Precursors. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 127-134	9.6	40
20	Charge transport and localization in atomically coherent quantum dot solids. <i>Nature Materials</i> , <b>2016</b> , 15, 557-63	27	192
19	Tuning of Coupling and Surface Quality of PbS Nanocrystals via a Combined Ammonium Sulfide and Iodine Treatment. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 642-6	6.4	15
18	Kerr self-cleaning of femtosecond-pulsed beams in graded-index multimode fiber. <i>Optics Letters</i> , <b>2016</b> , 41, 3675-8	3	107
17	Controllable spatiotemporal nonlinear effects in multimode fibres. <i>Nature Photonics</i> , <b>2015</b> , 9, 306-310	33.9	199
16	Multimodal fiber source for nonlinear microscopy based on a dissipative soliton laser. <i>Biomedical Optics Express</i> , <b>2015</b> , 6, 3248-55	3.5	15
15	Spatiotemporal dynamics of multimode optical solitons. <i>Optics Express</i> , <b>2015</b> , 23, 3492-506	3.3	111
14	Fundamental Limits to Mode-Locked Lasers: Toward Terawatt Peak Powers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2015</b> , 21, 63-70	3.8	14
13	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. <i>Physical Review Letters</i> , <b>2015</b> , 115, 223902	7.4	114
12	Ultrafast fiber lasers based on self-similar pulse evolution: a review of current progress. <i>Reports on Progress in Physics</i> , <b>2015</b> , 78, 113901	14.4	73
11	Effects of Disorder on Electronic Properties of Nanocrystal Assemblies. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 3338-3347	3.8	38
10	High-power fiber lasers for photocathode electron injectors. <i>Physical Review Special Topics: Accelerators and Beams</i> , <b>2014</b> , 17,		9
9	three-photon microscopy of subcortical structures within an intact mouse brain. <i>Nature Photonics</i> , <b>2013</b> , 7,	33.9	830
8	Bright infrared LEDs based on colloidal quantum-dots. <i>Materials Research Society Symposia Proceedings</i> , <b>2013</b> , 1509, 1		
7	Pulse Shaping and Evolution in Normal-Dispersion Mode-Locked Fiber Lasers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2012</b> , 18, 389-398	3.8	105

6	Energy-Level-Related Response of Cathodic Electrogenerated-Chemiluminescence of Self-Assembled CdSe/ZnS Quantum Dot Films. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 18822-18828	3.8	36
5	Type-I cascaded quadratic soliton compression in lithium niobate: Compressing femtosecond pulses from high-power fiber lasers. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	21
4	Properties of normal-dispersion femtosecond fiber lasers. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2008</b> , 25, 140	1.7	305
3	Self-steepening of ultrashort optical pulses without self-phase-modulation. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	72
2	Self-steepening without self-phase modulation <b>2007</b> ,		1
1	Efficient Temporal Shaping of Ultrashort Pulses with Birefringent Crystals <b>2007</b> ,		1