Frank W Wise

List of Publications by Citations

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	three-photon microscopy of subcortical structures within an intact mouse brain. *Nature Photonics*, **2013**, 7,	33.9	830
40	Properties of normal-dispersion femtosecond fiber lasers. *Journal of the Optical Society of America B: Optical Physics*, **2008**, 25, 140	1.7	305
39	Spatiotemporal mode-locking in multimode fiber lasers. *Science*, **2017**, 358, 94-97	33.3	200
38	Controllable spatiotemporal nonlinear effects in multimode fibres. *Nature Photonics*, **2015**, 9, 306-310	33.9	199
37	Charge transport and localization in atomically coherent quantum dot solids. *Nature Materials*, **2016**, 15, 557-63	27	192
36	Ultrabroadband Dispersive Radiation by Spatiotemporal Oscillation of Multimode Waves. *Physical Review Letters*, **2015**, 115, 223902	7.4	114
35	Spatiotemporal dynamics of multimode optical solitons. *Optics Express*, **2015**, 23, 3492-506	3.3	111
34	Self-organized instability in graded-index multimode fibres. *Nature Photonics*, **2016**, 10, 771-776	33.9	109
33	Kerr self-cleaning of femtosecond-pulsed beams in graded-index multimode fiber. *Optics Letters*, **2016**, 41, 3675-8	3	107
32	Pulse Shaping and Evolution in Normal-Dispersion Mode-Locked Fiber Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2012**, 18, 389-398	3.8	105
31	Several new directions for ultrafast fiber lasers [Invited]. *Optics Express*, **2018**, 26, 9432-9463	3.3	89
30	Megawatt peak power from a Mamyshev oscillator. *Optica*, **2017**, 4, 649-654	8.6	73
29	Ultrafast fiber lasers based on self-similar pulse evolution: a review of current progress. *Reports on Progress in Physics*, **2015**, 78, 113901	14.4	73
28	Self-steepening of ultrashort optical pulses without self-phase-modulation. *Physical Review A*, **2007** , 76,	2.6	72
27	Multimode Nonlinear Fiber Optics: Massively Parallel Numerical Solver, Tutorial, and Outlook. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 24, 1-16	3.8	66
26	Colloidal Synthesis of PbS and PbS/CdS Nanosheets Using Acetate-Free Precursors. *Chemistry of Materials*, **2016**, 28, 127-134	9.6	40
25	Effects of Disorder on Electronic Properties of Nanocrystal Assemblies. *Journal of Physical Chemistry C*, **2015**, 119, 3338-3347	3.8	38

24	Mechanisms of spatiotemporal mode-locking. *Nature Physics*, **2020**, 16, 565-570	16.2	37
23	Energy-Level-Related Response of Cathodic Electrogenerated-Chemiluminescence of Self-Assembled CdSe/ZnS Quantum Dot Films. *Journal of Physical Chemistry C*, **2011**, 115, 18822-18828	3.8	36
22	Propagation of Structural Disorder in Epitaxially Connected Quantum Dot Solids from Atomic to Micron Scale. *Nano Letters*, **2016**, 16, 5714-8	11.5	34
21	Broadband hyperspectral stimulated Raman scattering microscopy with a parabolic fiber amplifier source. *Biomedical Optics Express*, **2018**, 9, 6116-6131	3.5	32
20	High-power femtosecond pulses without a modelocked laser. *Optica*, **2017**, 4, 831-834	8.6	30
19	Nonlinear ultrafast fiber amplifiers beyond the gain-narrowing limit. *Optica*, **2019**, 6, 1328-1333	8.6	28
18	Type-I cascaded quadratic soliton compression in lithium niobate: Compressing femtosecond pulses from high-power fiber lasers. *Physical Review A*, **2010**, 81,	2.6	21
17	Multimodal fiber source for nonlinear microscopy based on a dissipative soliton laser. *Biomedical Optics Express*, **2015**, 6, 3248-55	3.5	15
16	Tuning of Coupling and Surface Quality of PbS Nanocrystals via a Combined Ammonium Sulfide and Iodine Treatment. *Journal of Physical Chemistry Letters*, **2016**, 7, 642-6	6.4	15
15	Fundamental Limits to Mode-Locked Lasers: Toward Terawatt Peak Powers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2015**, 21, 63-70	3.8	14
14	Composite film with anisotropically enhanced optical nonlinearity for a pulse-width tunable fiber laser. *Journal of Materials Chemistry C*, **2018**, 6, 1126-1135	7.1	12
13	Starting Dynamics of a Linear-Cavity Femtosecond Mamyshev Oscillator. *Journal of the Optical Society of America B: Optical Physics*, **2021**, 38, 743-748	1.7	12
12	High-power fiber lasers for photocathode electron injectors. *Physical Review Special Topics: Accelerators and Beams*, **2014**, 17,		9
11	In-Band Noise Filtering via Spatio-Spectral Coupling. *Laser and Photonics Reviews*, **2018**, 12, 1700316	8.3	7
10	Limits of Femtosecond Fiber Amplification by Parabolic Pre-Shaping. *Journal of the Optical Society of America B: Optical Physics*, **2017**, 34, A37-A42	1.7	6
9	Multimode Mamyshev oscillator.. *Optics Letters*, **2022**, 47, 46-49	3	5
8	Integrated sample-handling and mounting system for fixed-target serial synchrotron crystallography. *Acta Crystallographica Section D: Structural Biology*, **2021**, 77, 628-644	5.5	3
7	Colloidal nanocrystals: Virtues of defects. *Nature Materials*, **2017**, 17, 8-9	27	1

6	Self-steepening without self-phase modulation **2007**,		1
5	Efficient Temporal Shaping of Ultrashort Pulses with Birefringent Crystals **2007**,		1
4	Design guidelines for normal-dispersion fiber optical parametric chirped-pulse amplifiers. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 1790-1805	1.7	1
3	Synchronously pumped Raman laser for simultaneous degenerate and nondegenerate two-photon microscopy. *Biomedical Optics Express*, **2021**, 12, 2496-2507	3.5	1
2	Weak beam self-cleaning of femtosecond pulses in the anomalous dispersion regime. *Optics Letters* , **2021**, 46, 3312-3315	3	1
1	Bright infrared LEDs based on colloidal quantum-dots. *Materials Research Society Symposia Proceedings*, **2013**, 1509, 1		