Franz X Krtner

List of Publications by Year in Descending Order

190 papers	6,721 citations	40 h-index	77 g-index
276 ext. papers	8,943 ext. citations	5.9 avg, IF	5.87 L-index

#	Paper	IF	Citations
190	Semiconductor saturable absorber mirror mode-locked Yb:YLF laser with pulses of 40 fs.. *Optics Letters*, **2022**, 47, 933-936	3	1
189	Nonlinear Mach-Zehnder interferometer isolator.. *Optics Express*, **2022**, 30, 5973-5980	3.3	1
188	Cavity-dumped nanosecond Cr:LiSAF laser in the 985–1030 nm region for versatile seeding of Yb-based amplifiers. *Applied Physics B: Lasers and Optics*, **2022**, 128, 1	1.9	0
187	Broadly tunable (993–1110 nm) Yb:YLF laser. *Applied Optics*, **2022**, 61, 3702	1.7	0
186	Strong-field coherent control of isolated attosecond pulse generation. *Nature Communications*, **2021**, 12, 6641	17.4	5
185	Attosecond-precision balanced linear-optics timing detector. *Optics Express*, **2021**, 29, 38140-38149	3.3	0
184	Optically Enabled ADCs and Application to Optical Communications. *IEEE Open Journal of the Solid-State Circuits Society*, **2021**, 1-1		3
183	Bandwidth extension and conversion efficiency improvements beyond phase matching limitations using cavity-enhanced OPCPA. *Optics Express*, **2021**, 29, 9907-9926	3.3	2
182	Comparative investigation of lasing and amplification performance in cryogenic Yb:YLF systems. *Applied Physics B: Lasers and Optics*, **2021**, 127, 1	1.9	3
181	High power (>500W) cryogenically cooled Yb:YLF cw-oscillator operating at 995 nm and 1019 nm using E//c axis for lasing. *Optics Express*, **2021**, 29, 11674-11682	3.3	4
180	On-chip sampling of optical fields with attosecond resolution. *Nature Photonics*, **2021**, 15, 456-460	33.9	18
179	Amplification of 108 GHz repetition rate femtosecond laser pulses to 97 W average power by a fiber amplifier. *OSA Continuum*, **2021**, 4, 1571	1.4	1
178	Optically clocked switched-emitter-follower THA in a photonic SiGe BiCMOS technology. *Optics Express*, **2021**, 29, 16312-16322	3.3	1
177	Error analysis of contactless optical temperature probing methods for cryogenic Yb:YAG. *Applied Physics B: Lasers and Optics*, **2021**, 127, 1	1.9	1
176	Detailed investigation of absorption, emission and gain in Yb:YLF in the 78–300 K range. *Optical Materials Express*, **2021**, 11, 250	2.6	11
175	Quantum diffusion of microcavity solitons. *Nature Physics*, **2021**, 17, 462-466	16.2	9
174	Bulk, cascaded pulse compression scheme and its application to spin emitter characterization. *Applied Optics*, **2021**, 60, 912-917	1.7	1

173	Temperature and doping dependence of fluorescence lifetime in Yb:YLF (role of impurities). *Optical Materials*, **2021**, 112, 110792	3.3	4
172	μJ-level multi-cycle terahertz generation in a periodically poled Rb:KTP crystal. *Optics Letters*, **2021**, 46, 741-744	3	1
171	Supercontinuum generation in silicon Bragg grating waveguide. *Applied Physics Letters*, **2021**, 118, 071106	3.4	3
170	Intrinsic amplitude-noise suppression in fiber lasers mode-locked with nonlinear amplifying loop mirrors. *Optics Letters*, **2021**, 46, 1752-1755	3	6
169	Nonlinear fiber system for shot-noise limited intensity noise suppression and amplification. *Optics Letters*, **2021**, 46, 3344-3347	3	0
168	Full 3D+1 modeling of tilted-pulse-front setups for single-cycle terahertz generation: reply. *Journal of the Optical Society of America B: Optical Physics*, **2021**, 38, 2590	1.7	
167	Highly efficient cryogenic Yb:YLF regenerative amplifier with 250 W average power. *Optics Letters*, **2021**, 46, 3865-3868	3	5
166	THz-Enhanced DC Ultrafast Electron Diffractometer. *Ultrafast Science*, **2021**, 2021, 1-7		4
165	Mode-locked Cr:LiSAF laser far off the gain peak: tunable sub-200-fs pulses near 1 μm. *Applied Optics*, **2021**, 60, 9054-9061	1.7	3
164	Silicon Photonics Optical Frequency Synthesizer. *Laser and Photonics Reviews*, **2020**, 14, 1900449	8.3	10
163	Cascaded Multicycle Terahertz-Driven Ultrafast Electron Acceleration and Manipulation. *Physical Review X*, **2020**, 10,	9.1	14
162	Novel method for the angular chirp compensation of passively CEP-stable few-cycle pulses. *Optics Express*, **2020**, 28, 3171-3178	3.3	2
161	Full 3D + 1 modeling of tilted-pulse-front setups for single-cycle terahertz generation. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 1000	1.7	7
160	Power and energy scaling of rod-type cryogenic Yb:YLF regenerative amplifiers. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 1865	1.7	9
159	Towards high power longwave mid-IR frequency combs: power scalability of high repetition-rate difference-frequency generation. *Optics Express*, **2020**, 28, 1369-1384	3.3	8
158	20-mJ, sub-ps pulses at up to 70 W average power from a cryogenic Yb:YLF regenerative amplifier. *Optics Express*, **2020**, 28, 2466-2479	3.3	13
157	Towards CW modelocked laser on chip - a large mode area and NLI for stretched pulse mode locking. *Optics Express*, **2020**, 28, 22562-22579	3.3	5
156	High-power passively mode-locked cryogenic Yb:YLF laser. *Optics Letters*, **2020**, 45, 2050-2053	3	16

155	Femtosecond two-color source synchronized at 100-as-precision based on SPM-enabled spectral selection. *Optics Letters*, **2020**, 45, 3410-3413	3	5
154	Comparison of different in situ optical temperature probing techniques for cryogenic Yb:YLF. *Optical Materials Express*, **2020**, 10, 3403	2.6	7
153	High-power pre-chirp managed amplification of circularly polarized pulses using high-dispersion chirped mirrors as a compressor. *OSA Continuum*, **2020**, 3, 1988	1.4	4
152	Eight-pass Yb:YLF cryogenic amplifier generating 305-mJ pulses. *OSA Continuum*, **2020**, 3, 2722	1.4	6
151	Nonlinear silicon photonics on CMOS-compatible tellurium oxide. *Photonics Research*, **2020**, 8, 1904	6	6
150	Alexandrite: an attractive thin-disk laser material alternative to Yb:YAG?. *Journal of the Optical Society of America B: Optical Physics*, **2020**, 37, 459	1.7	1
149	Waveform Reproducibility from an OPA-based Parallel Synthesizer **2020**,		1
148	Terahertz accelerator based electron and x-ray sources. *Terahertz Science & Technology*, **2020**, 13, 22-31	0.3	0
147	Light phase detection with on-chip petahertz electronic networks. *Nature Communications*, **2020**, 11, 3407	17.4	15
146	Sub-cycle millijoule-level parametric waveform synthesizer for attosecond science. *Nature Photonics*, **2020**, 14, 629-635	33.9	28
145	Raman Shifting Induced by Cascaded Quadratic Nonlinearities for Terahertz Generation. *Laser and Photonics Reviews*, **2020**, 14, 2000109	8.3	2
144	Spectral phase control of interfering chirped pulses for high-energy narrowband terahertz generation. *Nature Communications*, **2019**, 10, 2591	17.4	40
143	Multimodal imaging platform for optical virtual skin biopsy enabled by a fiber-based two-color ultrafast laser source. *Biomedical Optics Express*, **2019**, 10, 514-525	3.5	13
142	Segmented Terahertz device for ultrashort electron acceleration, compression, focusing and streaking. *EPJ Web of Conferences*, **2019**, 205, 01013	0.3	
141	Vanishing Carrier-Envelope-Phase-Sensitive Response in Optical-Field Photoemission from Plasmonic Nanoantennas. *Nature Physics*, **2019**, 15, 1128-1133	16.2	12
140	Electro-Optic Sampling of Terahertz Pulses in Multilayer Crystals **2019**,		2
139	Few-cycle, carrier-envelope-phase-stable laser pulses from a compact supercontinuum source. *Journal of the Optical Society of America B: Optical Physics*, **2019**, 36, A93	1.7	8
138	Integrated CMOS-compatible Q-switched mode-locked lasers at 1900nm with an on-chip artificial saturable absorber. *Optics Express*, **2019**, 27, 3542-3556	3.3	26

137	Simultaneous generation and compression of broadband terahertz pulses in aperiodically poled crystals. *Optics Express*, **2019**, 27, 6580-6597	3.3	2
136	Frequency-comb-based laser system producing stable optical beat pulses with picosecond durations suitable for high-precision multi-cycle terahertz-wave generation and rapid detection. *Optics Express*, **2019**, 27, 11037-11056	3.3	7
135	Timing jitter reduction through relative intensity noise suppression in high-repetition-rate mode-locked fiber lasers. *Optics Express*, **2019**, 27, 11273-11280	3.3	8
134	Terahertz-induced cascaded interactions between spectra offset by large frequencies. *Optics Express*, **2019**, 27, 19254-19269	3.3	3
133	Analysis of terahertz generation by beamlet superposition. *Optics Express*, **2019**, 27, 26547-26568	3.3	2
132	Supercontinuum generation in varying dispersion and birefringent silicon waveguide. *Optics Express* , **2019**, 27, 31698-31712	3.3	31
131	Efficient, diode-pumped, high-power (>300W) cryogenic Yb:YLF laser with broad-tunability (995-1020.5 nm): investigation of E//a-axis for lasing. *Optics Express*, **2019**, 27, 36562-36579	3.3	13
130	Femtosecond phase control in high-field terahertz-driven ultrafast electron sources. *Optica*, **2019**, 6, 872	8.6	26
129	190-mJ cryogenically-cooled Yb:YLF amplifier system at 10197 nm. *OSA Continuum*, **2019**, 2, 3547	1.4	8
128	Fiber-amplifier-pumped, 1-MHz, 1-μJ, 2.1-μm, femtosecond OPA with chirped-pulse DFG front-end. *Optics Express*, **2019**, 27, 9144-9154	3.3	2
127	Temperature dependence of Alexandrite effective emission cross section and small signal gain over the 25-450 °C range. *Optical Materials Express*, **2019**, 9, 3352	2.6	6
126	On the effect of third-order dispersion on phase-matched terahertz generation via interfering chirped pulses. *Optics Express*, **2019**, 27, 34769-34787	3.3	3
125	Optical frequency synthesizer with an integrated erbium tunable laser. *Light: Science and Applications*, **2019**, 8, 122	16.7	14
124	MITHRA 1.0: A full-wave simulation tool for free electron lasers. *Computer Physics Communications*, **2018**, 228, 192-208	4.2	1
123	Octave-spanning coherent supercontinuum generation in silicon on insulator from 1.06 μm to beyond 2.4 μm. *Light: Science and Applications*, **2018**, 7, 17131	16.7	79
122	Laser system design for table-top X-ray light source. *High Power Laser Science and Engineering*, **2018** , 6,	4.3	13
121	Segmented Terahertz Electron Accelerator and Manipulator (STEAM). *Nature Photonics*, **2018**, 12, 336-342	33.9	128
120	Megawatt peak power tunable femtosecond source based on self-phase modulation enabled spectral selection. *Optics Express*, **2018**, 26, 3684-3695	3.3	33

119	Pre-chirp managed, core-pumped nonlinear PM fiber amplifier delivering sub-100-fs and high energy (10 nJ) pulses with low noise. *Optics Express*, **2018**, 26, 6427-6438	3.3	7
118	Cascaded interactions mediated by terahertz radiation. *Optics Express*, **2018**, 26, 12536-12546	3.3	14
117	CEP dependence of signal and idler upon pump-seed synchronization in optical parametric amplifiers. *Optics Letters*, **2018**, 43, 178-181	3	9
116	Energy scalable, offset-free ultrafast mid-infrared source harnessing self-phase-modulation-enabled spectral selection. *Optics Letters*, **2018**, 43, 2953-2956	3	10
115	Terahertzstrahlen dirigieren Elektronenpakete. *Physik in Unserer Zeit*, **2018**, 49, 165-166	0.1	
114	87-W 1018-nm Yb-fiber ultrafast seeding source for cryogenic Yb: yttrium lithium fluoride amplifier. *Optics Letters*, **2018**, 43, 1686-1689	3	13
113	Tunable, Ultrafast Fiber-Laser Between 1.15 and 1.35 Ìm for Harmonic Generation Microscopy in Human Skin. *IEEE Journal of Selected Topics in Quantum Electronics*, **2018**, 1-1	3.8	2
112	Synchronous multi-color laser network with daily sub-femtosecond timing drift. *Scientific Reports*, **2018**, 8, 11948	4.9	5
111	Integrated rare-Earth doped mode-locked lasers on a CMOS platform **2018**,		4
110	Robust 700 MHz mode-locked Yb:fiber laser with a biased nonlinear amplifying loop mirror. *Optics Express*, **2018**, 26, 26003-26008	3.3	27
109	Ultra-precise timing and synchronization for large-scale scientific instruments. *Optica*, **2018**, 5, 1564	8.6	14
108	Low-Drift Optoelectronic Oscillator Based on a Phase Modulator in a Sagnac Loop. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 2617-2624	4.1	26
107	Cascaded second-order processes for the efficient generation of narrowband terahertz radiation. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2017**, 50, 044002	1.3	12
106	Attosecond precision multi-kilometer laser-microwave network. *Light: Science and Applications*, **2017**, 6, e16187	16.7	37
105	Tunable Low-Jitter Low-Drift Spurious-Free Transposed-Frequency Optoelectronic Oscillator. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 2625-2635	4.1	17
104	Generation and multi-octave shaping of mid-infrared intense single-cycle pulses. *Nature Photonics*, **2017**, 11, 222-226	33.9	69
103	Optical-field-controlled photoemission from plasmonic nanoparticles. *Nature Physics*, **2017**, 13, 335-339	16.2	76
102	Narrowband terahertz generation with chirped-and-delayed laser pulses in periodically poled lithium niobate. *Optics Letters*, **2017**, 42, 2118-2121	3	37

101	Mapping Photoemission and Hot-Electron Emission from Plasmonic Nanoantennas. *Nano Letters*, **2017**, 17, 6069-6076	11.5	44
100	Laser-Induced Linear-Field Particle Acceleration in Free Space. *Scientific Reports*, **2017**, 7, 11159	4.9	28
99	High-energy mid-infrared sub-cycle pulse synthesis from a parametric amplifier. *Nature Communications*, **2017**, 8, 141	17.4	80
98	Breaking the Femtosecond Barrier in Multi-Kilometer Timing Synchronization Systems. *IEEE Journal of Selected Topics in Quantum Electronics*, **2017**, 23, 97-108	3.8	9
97	Energetic ultrafast fiber laser sources tunable in 1030-1215 nm for deep tissue multi-photon microscopy. *Optics Express*, **2017**, 25, 6822-6831	3.3	41
96	100-nm tunable femtosecond Cr:LiSAF laser mode locked with a broadband saturable Bragg reflector. *Applied Optics*, **2017**, 56, 3812-3816	0.2	11
95	THz cavities and injectors for compact electron acceleration using laser-driven THz sources. *Physical Review Accelerators and Beams*, **2017**, 20,	1.8	10
94	Kagome-fiber-based pulse compression of mid-infrared picosecond pulses from a Ho:YLF amplifier. *Optica*, **2016**, 3, 816	8.6	22
93	Terahertz driven linear accelerators and photon sources **2016**,		1
92	Volkov transform generalized projection algorithm for attosecond pulse characterization. *New Journal of Physics*, **2016**, 18, 073009	2.9	35
91	Optical-to-microwave synchronization with sub-femtosecond daily drift **2016**,		2
90	250 W average power, 100 kHz repetition rate cryogenic Yb:YAG amplifier for OPCPA pumping. *Optics Letters*, **2016**, 41, 492-5	3	30
89	Intracavity gain shaping in millijoule-level, high gain Ho:YLF regenerative amplifiers. *Optics Letters*, **2016**, 41, 1114-7	3	18
88	AXSIS: Exploring the frontiers in attosecond X-ray science, imaging and spectroscopy. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2016**, 829, 24-29	1.2	50
87	Direct longitudinal laser acceleration of electrons in free space. *Physical Review Accelerators and Beams*, **2016**, 19,	1.8	50
86	Short electron bunch generation using single-cycle ultrafast electron guns. *Physical Review Accelerators and Beams*, **2016**, 19,	1.8	33
85	Self-phase modulation enabled, wavelength-tunable ultrafast fiber laser sources: an energy scalable approach. *Optics Express*, **2016**, 24, 15328-40	3.3	45
84	40-μJ passively CEP-stable seed source for ytterbium-based high-energy optical waveform synthesizers. *Optics Express*, **2016**, 24, 25169-25180	3.3	19

83	Pulse sequences for efficient multi-cycle terahertz generation in periodically poled lithium niobate. *Optics Express*, **2016**, 24, 25582-25607	3.3	44
82	Terahertz-driven, all-optical electron gun. *Optica*, **2016**, 3, 1209	8.6	42
81	Water-window soft x-ray high-harmonic generation up to the nitrogen K-edge driven by a kHz, 2.1μm OPCPA source. *Journal of Physics B: Atomic, Molecular and Optical Physics*, **2016**, 49, 155601	1.3	37
80	Cascaded parametric amplification for highly efficient terahertz generation. *Optics Letters*, **2016**, 41, 3806-9	3	30
79	. *IEEE Journal of Selected Topics in Quantum Electronics*, **2015**, 21, 1-12	3.8	43
78	Theory of terahertz generation by optical rectification using tilted-pulse-fronts. *Optics Express*, **2015**, 23, 5253-76	3.3	36
77	High-energy, kHz, picosecond hybrid Yb-doped chirped-pulse amplifier. *Optics Express*, **2015**, 23, 10132-44	3.3	23
76	Cryogenic Yb:YAG composite-thin-disk for high energy and average power amplifiers. *Optics Letters* , **2015**, 40, 2610-3	3	40
75	Terahertz-driven linear electron acceleration. *Nature Communications*, **2015**, 6, 8486	17.4	280
74	Pre-chirp managed nonlinear amplification in fibers delivering 100 W, 60 fs pulses. *Optics Letters*, **2015**, 40, 151-4	3	51
73	Highly efficient terahertz pulse generation by optical rectification in stoichiometric and cryo-cooled congruent lithium niobate. *Journal of Modern Optics*, **2015**, 62, 1486-1493	1.1	38
72	Gain-Matched Output Couplers for Efficient Kerr-Lens Mode-Locking of Low-Cost and High-Peak Power Cr:LiSAF Lasers. *IEEE Journal of Selected Topics in Quantum Electronics*, **2015**, 21, 94-105	3.8	12
71	Toward a terahertz-driven electron gun. *Scientific Reports*, **2015**, 5, 14899	4.9	33
70	Temperature dependent refractive index and absorption coefficient of congruent lithium niobate crystals in the terahertz range. *Optics Express*, **2015**, 23, 29729-37	3.3	47
69	Efficient narrowband terahertz generation in cryogenically cooled periodically poled lithium niobate. *Optics Letters*, **2015**, 40, 5762-5	3	37
68	Coherent pulse synthesis: towards sub-cycle optical waveforms. *Laser and Photonics Reviews*, **2015**, 9, 129-171	8.3	132
67	Remote Laser-Microwave Synchronization Over Kilometer-Scale Fiber Link With Few-Femtosecond Drift. *Journal of Lightwave Technology*, **2014**, 32, 3742-3748	4	4
66	Nanostructured ultrafast silicon-tip optical field-emitter arrays. *Nano Letters*, **2014**, 14, 5035-43	11.5	59

65	High-energy kHz Yb:KYW dual-crystal regenerative amplifier. *Optics Express*, **2014**, 22, 24752-62	3.3	28
64	One-femtosecond, long-term stable remote laser synchronization over a 3.5-km fiber link. *Optics Express*, **2014**, 22, 14904-12	3.3	33
63	High conversion efficiency, high energy terahertz pulses by optical rectification in cryogenically cooled lithium niobate. *Optics Letters*, **2013**, 38, 796-8	3	165
62	Frequency comb based on a narrowband Yb-fiber oscillator: pre-chirp management for self-referenced carrier envelope offset frequency stabilization. *Optics Express*, **2013**, 21, 4531-8	3.3	16
61	Compact electron acceleration and bunch compression in THz waveguides. *Optics Express*, **2013**, 21, 9792-806	3.3	77
60	Long-term stable, sub-femtosecond timing distribution via a 1.2-km polarization-maintaining fiber link: approaching 10(-21) link stability. *Optics Express*, **2013**, 21, 19982-9	3.3	28
59	Performance scaling of high-power picosecond cryogenically cooled rod-type Yb:YAG multipass amplification. *Journal of the Optical Society of America B: Optical Physics*, **2013**, 30, 2798	1.7	7
58	Strong-field photoemission from silicon field emitter arrays. *Annalen Der Physik*, **2013**, 525, 144-150	2.6	28
57	Recombination-amplitude calculations of noble gases, in both length and acceleration forms, beyond the strong-field approximation. *Physical Review A*, **2013**, 88,	2.6	10
56	Towards a large-scale, optical timing distribution system with sub-femtosecond residual timing jitter **2013**,		1
55	High-order harmonic generation in Xe, Kr, and Ar driven by a 2.1-μm source: High-order harmonic spectroscopy under macroscopic effects. *Physical Review A*, **2012**, 86,	2.6	12
54	Optical flywheels with attosecond jitter. *Nature Photonics*, **2012**, 6, 97-100	33.9	92
53	Broadband noncollinear optical parametric amplification without angularly dispersed idler. *Optics Letters*, **2012**, 37, 2796-8	3	30
52	Photonic ADC: overcoming the bottleneck of electronic jitter. *Optics Express*, **2012**, 20, 4454-69	3.3	258
51	Optimization of femtosecond Yb-doped fiber amplifiers for high-quality pulse compression. *Optics Express*, **2012**, 20, 28672-82	3.3	37
50	Accurate photonic analog-to-digital conversion **2011**,		1
49	Femtosecond tuning of Cr:colquiriite lasers with AlGaAs-based saturable Bragg reflectors. *Journal of the Optical Society of America B: Optical Physics*, **2011**, 28, 986	1.7	21
48	Femtosecond Cr:LiSAF and Cr:LiCAF lasers pumped by tapered diode lasers. *Optics Express*, **2011**, 19, 20444-61	3.3	29

47	Demonstration of a cavity-enhanced optical parametric chirped-pulse amplification system. *Optics Letters*, **2011**, 36, 1206-8	3	5
46	High-energy pulse synthesis with sub-cycle waveform control for strong-field physics. *Nature Photonics*, **2011**, 5, 475-479	33.9	227
45	A threshold for laser-driven linear particle acceleration in unbounded vacuum. *Applied Physics Letters*, **2011**, 99, 211101	3.4	5
44	Interplay of mulitphoton and tunneling ionization in short-wavelength-driven high-order harmonic generation. *Physical Review A*, **2011**, 84,	2.6	9
43	Ultrafast Rabi flopping and coherent pulse propagation in a quantum cascade laser. *Nature Photonics*, **2010**, 4, 706-710	33.9	43
42	Femtosecond precision timing distribution for accelerators and Light Sources **2010**,		2
41	Chirally-coupled-core Yb-fiber laser delivering 80-fs pulses with diffraction-limited beam quality warranted by a high-dispersion mirror based compressor. *Optics Express*, **2010**, 18, 24699-705	3.3	29
40	Performance scaling via passive pulse shaping in cavity-enhanced optical parametric chirped-pulse amplification. *Optics Letters*, **2010**, 35, 1929-31	3	4
39	Highly efficient Cherenkov radiation in photonic crystal fibers for broadband visible wavelength generation. *Optics Letters*, **2010**, 35, 2361-3	3	88
38	Phase distortion ratio: alternative to group delay dispersion for analysis and optimization of dispersion compensating optics. *Optics Letters*, **2010**, 35, 2469-71	3	5
37	Space-time focusing of phase-stabilized nanojoule-level 2.5-cycle pulses to peak intensities >>3□1013 W/cm2 at 80 MHz **2009**,		1
36	Highly stable ultrabroadband mid-IR optical parametric chirped-pulse amplifier optimized for superfluorescence suppression. *Optics Letters*, **2009**, 34, 1639-41	3	71
35	Comparative investigation of diode pumping for continuous-wave and mode-locked Cr^3+:LiCAF lasers. *Journal of the Optical Society of America B: Optical Physics*, **2009**, 26, 64	1.7	20
34	Temporal optimization of ultrabroadband high-energy OPCPA. *Optics Express*, **2009**, 17, 5540-55	3.3	62
33	Integrated Low-Jitter 400-MHz Femtosecond Waveguide Laser. *IEEE Photonics Technology Letters*, **2009**, 21, 763-765	2.2	26
32	Drift-free femtosecond timing synchronization of remote optical and microwave sources. *Nature Photonics*, **2008**, 2, 733-736	33.9	232
31	Multimode regimes in quantum cascade lasers: From coherent instabilities to spatial hole burning. *Physical Review A*, **2008**, 77,	2.6	139
30	Generation of 287 W, 5.5 ps pulses at 78 MHz repetition rate from a cryogenically cooled Yb:YAG amplifier seeded by a fiber chirped-pulse amplification system. *Optics Letters*, **2008**, 33, 2473-5	3	45

29	Integrated, low-jitter, 400 MHz femtosecond waveguide laser **2008**,		1
28	Astro-comb: revolutionizing precision spectroscopy in astrophysics. *Proceedings of the International Astronomical Union*, **2008**, 4, 499-501	0.1	
27	Experimental demonstration of loop-coupled microring resonators for optimally sharp optical filters **2008**,		4
26	Sub-femtosecond timing distribution of an ultrafast optical pulse train over multiple fiber links **2008**,		1
25	Low-Loss Bloch Waves in Open Structures and Highly Compact, Efficient Si Waveguide-Crossing Arrays. *Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS*, **2007**,		8
24	Polarization-transparent microphotonic devices in the strong confinement limit. *Nature Photonics*, **2007**, 1, 57-60	33.9	367
23	High Directivity, Vertical Fiber-to-Chip Coupler with Anisotropically Radiating Grating Teeth **2007**,		4
22	High Repetition Rate, Low Jitter, Fundamentally Mode-locked Soliton Er-fiber Laser **2007**,		4
21	Strong-Confinement Microring Resonator Photonic Circuits. *Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS*, **2007**,		2
20	Attosecond-resolution timing jitter characterization of free-running mode-locked lasers. *Optics Letters*, **2007**, 32, 3519-21	3	90
19	Efficient optimization of multilayer coatings for ultrafast optics using analytic gradients of dispersion. *Applied Optics*, **2007**, 46, 2656-62	1.7	19
18	Coherent instabilities in a semiconductor laser with fast gain recovery. *Physical Review A*, **2007**, 75,	2.6	79
17	Octave Spanning 1 GHz Ti:sapphire Oscillator For HeNe CH4-based Frequency Combs and Clocks **2007**,		1
16	Maximizing the Thermo-Optic Tuning Range of Silicon Photonic Structures **2007**,		51
15	Accurate resonant frequency spacing of microring filters without postfabrication trimming. *Journal of Vacuum Science & Technology B*, **2006**, 24, 3244		13
14	Global design rules for silicon microphotonic waveguides: Sensitivity, polarization and resonance tunability **2006**,		3
13	An Optical-Electrical Sub-Sampling Receiver Employing Continuous-Time Modulation **2006**,		1
12	Cavity-enhanced optical parametric chirped-pulse amplification. *Optics Letters*, **2006**, 31, 637-9	3	5

11	Two-dimensional spectral shearing interferometry for few-cycle pulse characterization. *Optics Letters*, **2006**, 31, 2063-5	3	87
10	Carrier-envelope phase dynamics and noise analysis in octave-spanning Ti:sapphire lasers. *Optics Express*, **2006**, 14, 2497-511	3.3	34
9	Role of the Coulomb singularity in high-order harmonic generation. *Physical Review A*, **2005**, 72,	2.6	39
8	Camouflage third-harmonic generation in the nonperturbative few-cycle regime. *Physica Status Solidi (B): Basic Research*, **2003**, 238, 561-567	1.3	5
7	Ultrahigh-resolution ophthalmic optical coherence tomography. *Nature Medicine*, **2001**, 7, 502-7	50.5	729
6	Generation of 5-fs pulses and octave-spanning spectra directly from a Ti:sapphire laser. *Optics Letters*, **2001**, 26, 373-5	3	300
5	Turbulence in Mode-Locked Lasers. *Physical Review Letters*, **1999**, 82, 4428-4431	7.4	38
4	Two-photon absorption in semiconductor saturable absorber mirrors. *Applied Physics Letters*, **1999**, 74, 3927-3929	3.4	66
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