Oleg Pronin

List of Publications by Year
in descending order

61 papers	2,556 citations	236925 25 h-index	276875 41 g-index
62 all docs	62 docs citations	62 times ranked	1689 citing authors

#	Article	IF	Citations
1	Third-generation femtosecond technology. Optica, 2014, 1, 45.	9.3	302
2	High-power sub-two-cycle mid-infrared pulses at 100â€…MHz repetition rate. Nature Photonics, 2015, 9, 721-724.	31.4	248
3	1â€‰â€‰kW, 200â€‰â€‰mJ picosecond thin-disk laser system. Optics Letters, 2017, 42, 1381.	3.3	195
4	Field-resolved infrared spectroscopy of biological systems. Nature, 2020, 577, 52-59.	27.8	170
5	Energy scaling of Kerr-lens mode-locked thin-disk oscillators. Optics Letters, 2014, 39, 6442.	3.3	144
6	High photon flux table-top coherent extreme-ultraviolet source. Nature Photonics, 2014, 8, 779-783.	31.4	144
7	High-power 200 fs Kerr-lens mode-locked Yb:YAG thin-disk oscillator. Optics Letters, 2011, 36, 4746.	3.3	138
8	All-solid-state multipass spectral broadening to sub-20â€‰â€‰fs. Optics Letters, 2018, 43, 4643.	3.3	96
9	Powerful 100-fs-scale Kerr-lens mode-locked thin-disk oscillator. Optics Letters, 2016, 41, 3567.	3.3	87
10	Multi-watt, multi-octave, mid-infrared femtosecond source. Science Advances, 2018, 4, eaaq1526.	10.3	86
11	Multi-mW, few-cycle mid-infrared continuum spanning from 500 to 2250â€‰cmâ^'1. Light: Science and Applications, 2018, 7, 17180-17180.	16.6	85
12	All solid-state spectral broadening: an average and peak power scalable method for compression of ultrashort pulses. Optics Express, 2016, 24, 9412.	3.4	80
13	Compressing Î¼J-level pulses from 250â€‰â€‰fs to sub-10â€‰â€‰fs at 38-MHz repetition rate using two gas-filled hollow-core photonic crystal fiber stages. Optics Letters, 2015, 40, 1238.	3.3	64
14	Ultrabroadband efficient intracavity XUV output coupler. Optics Express, 2011, 19, 10232.	3.4	56
15	High-power, 1-ps, all-Yb:YAG thin-disk regenerative amplifier. Optics Letters, 2016, 41, 1126.	3.3	54
16	Highâ€Power, Highâ€Efficiency Tm:YAG and Ho:YAG Thinâ€Disk Lasers. Laser and Photonics Reviews, 2018, 12, 1700273.	8.7	48
17	Efficient High-Power Ultrashort Pulse Compression in Self-Defocusing Bulk Media. Scientific Reports, 2017, 7, 1410.	3.3	44
18	Broadband mid-infrared coverage (2â€“17â€‰â€‰Î¼m) with few-cycle pulses via cascaded parametric processes. Optics Letters, 2019, 44, 2566.	3.3	43

#	Article	IF	Citations
19	Directly diode-pumped, Kerr-lens mode-locked, few-cycle Cr:ZnSe oscillator. Optics Express, 2019, 27, 24445.	3.4	38
20	High-power Kerr-lens mode-locked Yb:YAG thin-disk oscillator in the positive dispersion regime. Optics Letters, 2012, 37, 3543.	3.3	36
21	High-dispersive mirrors for high power applications. Optics Express, 2012, 20, 4503.	3.4	36
22	Intra-pulse difference-frequency generation of mid-infrared (27â€“20â€‰â€‰Î¼m) by random quasi-phase-matching. Optics Letters, 2019, 44, 2986.	3.3	35
23	Efficient femtosecond mid-infrared generation based on a Cr:ZnS oscillator and step-index fluoride fibers. Optics Letters, 2019, 44, 2390.	3.3	32
24	Self-compression at 1ÂÂµm wavelength in all-bulk multi-pass geometry. Applied Physics B: Lasers and Optics, 2020, 126, 1.	2.2	28
25	Pump-seed synchronization for MHz repetition rate, high-power optical parametric chirped pulse amplification. Optics Express, 2012, 20, 9833.	3.4	26
26	Dual frequency comb spectroscopy with a single laser. Optics Letters, 2014, 39, 5471.	3.3	25
27	Highly-dispersive mirrors reach new levels of dispersion. Optics Express, 2015, 23, 13788.	3.4	22
28	260-megahertz, megawatt-level thin-disk oscillator. Optics Letters, 2015, 40, 1627.	3.3	21
29	Kerr effect in multilayer dielectric coatings. Optics Express, 2016, 24, 21802.	3.4	20
30	Carrierâ€Envelopeâ€Offset Frequency Stable 100 Wâ€Level Femtosecond Thinâ€Disk Oscillator. Laser and Photonics Reviews, 2019, 13, 1800256.	8.7	17
31	Dual-comb thin-disk oscillator. Nature Communications, 2022, 13, 2584.	12.8	16
32	Active intensity noise suppression for a broadband mid-infrared laser source. Optics Express, 2017, 25, 22499.	3.4	15
33	Kerr-lens mode-locked thin-disk oscillator with 50% output coupling rate. Optics Letters, 2019, 44, 4227.	3.3	15
34	Carrier-envelope-phase stabilization via dual wavelength pumping. Optics Letters, 2016, 41, 1853.	3.3	14
35	Kerr-Lens Mode-Locked 2-Î¼m Thin-Disk Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-11.	2.9	14
36	Distributed Kerr Lens Mode-Locked Yb:YAG Thin-Disk Oscillator. Ultrafast Science, 2022, 2022, .	11.2	13

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37	Synthesis, fabrication and characterization of a highly-dispersive mirrors for the 2 Âµm spectral range. Optics Express, 2017, 25, 10234.	3.4	12
38	2/3 octave Si/SiO2 infrared dispersive mirrors open new horizons in ultrafast multilayer optics. Optics Express, 2019, 27, 55.	3.4	11
39	Generation of 49-fs pulses directly from distributed Kerr-lens mode-locked Yb:YAG thin-disk oscillator. , 2015, , .		7
40	Multipass spectral broadening and compression in the green spectral range. Optics Letters, 2022, 47, 1246-1249.	3.3	5
41	100 MW Thin-Disk Oscillator. , 2021, , .		3
42	Towards active multipass Kerr-lens mode-locked Yb:YAG thin-disk oscillators. , 2017, , .		2
43	Generation of 220 fs, 20 W pulses at 2 Î¼m from Kerr-lens mode-locked Ho:YAG thin-disk oscillator. , 2017, , .		2
44	High-power Kerr-lens mode-locked thin-disk oscillator in the anomalous and normal dispersion regimes. , 2013, , .		1
45	Power and energy scaling of Kerr-lens mode-locked thin-disk oscillators. Proceedings of SPIE, 2014, , .	0.8	1
46	1.3 W femtosecond mid-IR source at 8.5 Î¼m wavelength. , 2016, , .		1
47	Field-Resolved Infrared Spectroscopy of Biological Samples. , 2019, , .		1
48	Watt-level Megahertz-rate Femtosecond Mid-Infrared Source. , 2015, , .		1
49	Dielectric optical coatings at high peak intensities. , 2017, , .		0
50	Kerr-Lens Mode-Locked High-Power Thin-Disk Oscillators. , 0, , .		0
51	High-Power 50-MHz Source of Waveform-Stable, Multi-Octave Infrared Pulses. , 2019, , .		0
52	Kerr-lens modelocked Cr:ZnS oscillator for spectroscopy and microscopy applications. , 2021, , .		0
53	Kerr-Lens Mode-Locked Thin-Disk Oscillator. Springer Theses, 2014, , 53-81.	0.1	0
54	Towards Ultrashort CE Phase Stable Pulses. Springer Theses, 2014, , 83-97.	0.1	0

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55	XUV Output Coupler and XUV/IR Grazing-Incidence Beam Splitter. Springer Theses, 2014, , 99-114.	0.1	0
56	SESAM Mode-Locked Thin-Disk Oscillator. Springer Theses, 2014, , 33-52.	0.1	0
57	High Harmonic Generation of Fiber Laser Systems with more than 100 Î¼W Average Power per Harmonic. , 2014, , .		0
58	New Levels of Dispersion of Highly Dispersive Mirrors. , 2015, , .		0
59	mW femtosecond mid-IR source at 8.5 Î¼m wavelength. , 2016, , .		0
60	270 fs, 30-W-level Kerr-lens mode-locked Ho:YAG thin-disk oscillator at 2 Î¼m. , 2017, , .		0
61	Generation of broadband THz transients via metallic spintronic emitters driven by 20-fs pulses at 1030 nm. , 2020, , .		0