Pavel Sidorenko

List of Publications by Year
in descending order

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30 papers	1,819 citations	430874 18 h-index	526287 27 g-index
31 all docs	31 docs citations	31 times ranked	1613 citing authors

#	Article	IF	Citations
1	Spin angular momentum and tunable polarization in high-harmonic generation. Nature Photonics, 2014, 8, 543-549.	31.4	477
2	Phase matching of high harmonic generation in the soft and hard X-ray regions of the spectrum. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10516-10521.	7.1	334
3	Several new directions for ultrafast fiber lasers [Invited]. Optics Express, 2018, 26, 9432.	3.4	142
4	Single-shot ptychography. Optica, 2016, 3, 9.	9.3	115
5	Mechanisms of spatiotemporal mode-locking. Nature Physics, 2020, 16, 565-570.	16.7	112
6	Ptychographic reconstruction algorithm for frequency-resolved optical gating: super-resolution and supreme robustness. Optica, 2016, 3, 1320.	9.3	86
7	Self-seeded, multi-megawatt, Mamyshev oscillator. Optics Letters, 2018, 43, 2672.	3.3	73
8	Nonlinear ultrafast fiber amplifiers beyond the gain-narrowing limit. Optica, 2019, 6, 1328.	9.3	70
9	Direct observations of thermalization to a Rayleighâ€“Jeans distribution in multimode optical fibres. Nature Physics, 2022, 18, 685-690.	16.7	50
10	Femtosecond fiber Mamyshev oscillator at 1550â€‰â€‰nm. Optics Letters, 2019, 44, 851.	3.3	41
11	Generation of 1â€‰â€‰ÂµJ and 40â€‰â€‰fs pulses from a large mode area gain-managed nonlinear amplifier. Optics Letters, 2020, 45, 4084.	3.3	36
12	Ptychographic ultrahigh-speed imaging. Optics Express, 2017, 25, 10997.	3.4	33
13	Starting dynamics of a linear-cavity femtosecond Mamyshev oscillator. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 743.	2.1	33
14	On the Uniqueness of FROG Methods. IEEE Signal Processing Letters, 2017, 24, 722-726.	3.6	31
15	Megawatt pulses from an all-fiber and self-starting femtosecond oscillator. Optics Letters, 2022, 47, 762.	3.3	29
16	Multimode Mamyshev oscillator. Optics Letters, 2022, 47, 46.	3.3	25
17	Multiplexed single-shot ptychography. Optics Letters, 2018, 43, 5379.	3.3	22
18	Deep learning reconstruction of ultrashort pulses from 2D spatial intensity patterns recorded by an all-in-line system in a single-shot. Optics Express, 2020, 28, 7528.	3.4	21

#	Article	IF	Citations
19	Generation of high-order harmonics with controllable elliptical polarization. Optics Letters, 2013, 38, 223.	3.3	18
20	Sawtooth grating-assisted phase-matching. Optics Express, 2010, 18, 22686.	3.4	12
21	Integrated sample-handling and mounting system for fixed-target serial synchrotron crystallography. Acta Crystallographica Section D: Structural Biology, 2021, 77, 628-644.	2.3	12
22	Multiplexed FROG. Optics Express, 2017, 25, 33007.	3.4	9
23	Efficient soliton self-frequency shift in hydrogen-filled hollow-core fiber. Optics Letters, 2022, 47, 285.	3.3	9
24	Self-phase modulation spectral broadening in two-dimensional spatial solitons: toward three-dimensional spatiotemporal pulse-train solitons. Optics Letters, 2012, 37, 5196.	3.3	8
25	Femtosecond optical parametric chirped-pulse amplification in birefringent step-index fiber. Optics Letters, 2022, 47, 545.	3.3	8
26	Synchronously pumped Raman laser for simultaneous degenerate and nondegenerate two-photon microscopy. Biomedical Optics Express, 2021, 12, 2496.	2.9	6
27	Gain-Managed Nonlinear Fiber Amplifier. , 2019, , .		0
28	Turning nonlinearity from problem to advantage in ultrafast fiber amplifiers. , 2021, , .		0
29	Generation of 1-ÂµJ and 40-fs pulses from a large mode area gain-managed nonlinear amplifier. , 2020, , .		0
30	Generation of Femtosecond Pulses at 1080 nm and 1200 nm in Ytterbium-Doped Fiber. , 2020, , .		0