

Michal Chyla

List of Publications by Year in descending order

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docs citations

43
times ranked

203
citing authors

#	ARTICLE	IF	CITATIONS
1	Status of the High Average Power Diode-Pumped Solid State Laser Development at HiLASE. Applied Sciences (Switzerland), 2015, 5, 637-665.	2.5	65
2	Suppression of nonlinear phonon relaxation in Yb:YAG thin disk via zero phonon line pumping. Optics Letters, 2014, 39, 4919.	3.3	44
3	Overview of the HiLASE project: high average power pulsed DPSSL systems for research and industry. High Power Laser Science and Engineering, 2014, 2, .	4.6	43
4	Advances in High-Power, Ultrashort Pulse DPSSL Technologies at HiLASE. Applied Sciences (Switzerland), 2017, 7, 1016.	2.5	42
5	Optimization of beam quality and optical-to-optical efficiency of Yb:YAG thin-disk regenerative amplifier by pulsed pumping. Optics Letters, 2014, 39, 1441.	3.3	24
6	New observations on DUV radiation at 257â€…nm and 206â€…nm produced by a picosecond diode pumped thin-disk laser. Optics Express, 2019, 27, 24286.	3.4	21
7	Picosecond thin-disk laser platform PERLA for multi-beam micromachining. OSA Continuum, 2021, 4, 940.	1.8	17
8	Amplification of picosecond pulses to 100 W by an Yb:YAG thin-disk with CVBG compressor. , 2015, , .		9
9	Balancing the conversion efficiency and beam quality of second harmonic generation of a two-picosecond Yb:YAG thin-disk laser. Laser Physics, 2020, 30, 025405.	1.2	7
10	High-energy, picosecond regenerative thin-disk amplifier at 1 kHz. Proceedings of SPIE, 2012, , .	0.8	5
11	Progress in kW-class picosecond thin-disk lasers development at the HiLASE. Proceedings of SPIE, 2016, , .	0.8	5
12	Investigation of the lasing performance of a crystalline-coated Yb:YAG thin-disk directly bonded onto a silicon carbide heatsink. Optics Express, 2022, 30, 7708.	3.4	5
13	Precise curvature measurement of Yb:YAG thin disk. , 2015, , .		4
14	COMPACT, PICOSECOND, KW-CLASS THIN-DISK LASER PERLA FOR HI-TECH INDUSTRIAL APPLICATIONS. MM Science Journal, 2019, 2019, 3620-3625.	0.4	4
15	High-power, picosecond pulse thin-disk lasers in the Hilase project. Proceedings of SPIE, 2013, , .	0.8	3
16	kW-class picosecond thin-disc prepulse laser Perla for efficient EUV generation. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2017, 16, 1.	0.9	3
17	Measurement of the piezooptic coefficient of ceramic YAG and analysis of depolarization. Optical Materials Express, 2020, 10, 891.	3.0	3
18	In-situ optical phase distortion measurement of Yb:YAG thin disk in high average power regenerative amplifier. Proceedings of SPIE, 2013, , .	0.8	2

#	ARTICLE	IF	CITATIONS
19	Status of HiLASE project: High average power pulsed DPSSL systems for research and industry. EPJ Web of Conferences, 2013, 59, 08003.	0.3	2
20	50-mJ, 1-kHz Yb:YAG thin-disk regenerative amplifier with 969-nm pulsed pumping. , 2014, , .		2
21	Zero-phonon-line pumped 100-kHz Yb:YAG thin disk regenerative amplifier. Proceedings of SPIE, 2014, , .	0.8	2
22	Generating 84 fs, 4 nJ directly from an Yb-doped fiber oscillator by optimization of the net dispersion. Laser Physics, 2019, 29, 065105.	1.2	2
23	Zero-phonon-line pumped 1 kHz Yb:YAG thin-disk regenerative amplifier. , 2013, , .		1
24	High-energy picosecond light source based on cryogenically conduction cooled Yb-doped laser amplifier. Proceedings of SPIE, 2014, , .	0.8	1
25	HiLASE: development of fully diode pumped disk lasers with high average power. , 2015, , .		1
26	Time-resolved deformation measurement of Yb:YAG thin disk using wavefront sensor. Proceedings of SPIE, 2015, , .	0.8	1
27	High-Energy Burst Mode Thin-disk Multipass Amplifier for Laser Compton X-ray Source. , 2018, , .		1
28	Picosecond thin-disk amplifiers with high average power for pumping optical parametric amplifiers. , 2012, , .		0
29	High-energy regenerative thin disk amplifier. , 2012, , .		0
30	30-mJ, 1-kHz, Yb:YAG thin disk regenerative amplifier with pulsed pumping at 969-nm. , 2013, , .		0
31	1-kHz pulsed pumped Yb:YAG thin disk regenerative amplifier. , 2013, , .		0
32	Modeling and optimization of thin disk structure for high power sub-joule laser. , 2013, , .		0
33	Advantages of zero phonon line pumping in 100kHz Yb:YAG thin-disk regenerative amplifier. , 2013, , .		0
34	kW-class picosecond and nanosecond lasers at Hilase for hi-tech industrial applications. , 2017, , .		0
35	Single Shot M2 Measurement for Near Infrared Laser Pulses in Real-Time. , 2019, , .		0
36	Peak Power Enhancement of Yb:YAG Laser Pulses by Second Harmonic Generation with Time Predelay in Borate Crystals. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	A practical model of thin disk regenerative amplifier based on analytical expression of ASE lifetime. , 2017, , .		0
38	Generation of 1-J bursts with picosecond pulses from Perla B thin-disk laser system. , 2018, , .		0
39	Piezooptic Coefficients Measurement of Ceramic YAG. , 2019, , .		0
40	Single-shot laser beam parameter measurement system for near-infrared laser beams. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 3098.	2.1	0
41	EUV SOURCE AT HiLASE: THE STATE OF THE ART. MM Science Journal, 2019, 2019, 3406-3409.	0.4	0
42	CURRENT ADVANCES IN HIGH AVERAGE POWER DIODE-PUMPED LASERS. MM Science Journal, 2019, 2019, 3626-3631.	0.4	0
43	Qualification of 1030 nm ultra-short-pulsed laser for glass sheet treatment in TGV process. , 2022, , .		0