

Markus Loeser

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

366
citations

933447

10
h-index

996975

15
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16
all docs

16
docs citations

16
times ranked

601
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopic characterization of Yb ³⁺ -doped laser materials at cryogenic temperatures. Applied Physics B: Lasers and Optics, 2014, 116, 75-81.	2.2	70
2	First results with the novel petawatt laser acceleration facility in Dresden. Journal of Physics: Conference Series, 2017, 874, 012028.	0.4	68
3	Efficient laser-driven proton acceleration from cylindrical and planar cryogenic hydrogen jets. Scientific Reports, 2017, 7, 10248.	3.3	67
4	Proton beam quality enhancement by spectral phase control of a PW-class laser system. Scientific Reports, 2021, 11, 7338.	3.3	40
5	PE _n ELOPE: a high peak-power diode-pumped laser system for laser-plasma experiments. Proceedings of SPIE, 2013, , .	0.8	23
6	High-efficiency, room-temperature nanosecond Yb:YAG laser. Optics Express, 2009, 17, 19887.	3.4	18
7	MHz Repetition Rate Yb:YAG and Yb:CaF ₂ Regenerative Picosecond Laser Amplifiers with a BBO Pockels Cell. Applied Sciences (Switzerland), 2015, 5, 761-769.	2.5	16
8	High-energy diode-pumped D ₂ O-cooled multislabs Yb:YAG and Yb:QX-glass lasers. Optics Letters, 2014, 39, 3611.	3.3	14
9	Performance demonstration of the PE _n ELOPE main amplifier HEPA ^Å I using broadband nanosecond pulses. High Power Laser Science and Engineering, 2019, 7, .	4.6	13
10	Broadband, diode pumped Yb:SiO ₂ multicomponent glass laser. Optics Letters, 2012, 37, 4029.	3.3	10
11	Compact millijoule Yb ³⁺ :CaF ₂ laser with 162 ^Å fs pulses. Optics Express, 2021, 29, 9199.	3.4	8
12	Optical probing of high intensity laser interaction with micron-sized cryogenic hydrogen jets. Plasma Physics and Controlled Fusion, 2018, 60, 074003.	2.1	7
13	Off-harmonic optical probing of high intensity laser plasma expansion dynamics in solid density hydrogen jets. Scientific Reports, 2022, 12, 7287.	3.3	6
14	Broadband, diode pumped Yb-doped fused silica laser. Optical Materials Express, 2015, 5, 704.	3.0	4
15	Precise measurement of gas parameters in a realistic RPC configuration: The currently used R134a gas and a potential alternative eco-gas. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1024, 166124.	1.6	2
16	Pulse Shortening by spectral gain modulation in a regenerative Yb:CaF ₂ laser amplifier. , 2012, , .		0