

Steffen Weissmantel

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

292
citations

840776

11
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

157
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on laser ablation of glass using MHz-to-GHz burst pulses. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	6
2	Optimization of the ablation process using ultrashort pulsed laser radiation in different burst modes. Journal of Laser Applications, 2021, 33, .	1.7	23
3	Burst mode ablation of stainless steel with tunable ultrashort laser pulses. Journal of Laser Applications, 2021, 33, .	1.7	14
4	X-ray generation by laser ablation using MHz to GHz pulse bursts. Journal of Laser Applications, 2021, 33, .	1.7	16
5	Properties of boron carbide thin films deposited by pulsed laser deposition. Surface and Coatings Technology, 2021, 422, 127480.	4.8	7
6	Manufacturing of high quality 3D microstructures in stainless steel with ultrashort laser pulses using different burst modes. Journal of Laser Applications, 2021, 33, 042002.	1.7	6
7	Surface treatment on cobalt and titanium alloys using picosecond laser pulses in burst mode. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	6
8	Influence of heat accumulation during laser micromachining of CoCrMo alloy with ultrashort pulses in burst mode. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	19
9	Experimental and Theoretical Determination of the Effective Penetration Depth of Ultrafast Laser Radiation in Stainless Steel. Lasers in Manufacturing and Materials Processing, 2020, 7, 478-495.	2.2	12
10	Fundamental investigations of ultrashort pulsed laser ablation on stainless steel and cemented tungsten carbide. International Journal of Advanced Manufacturing Technology, 2020, 109, 1167-1175.	3.0	31
11	High-quality surface treatment using GHz burst mode with tunable ultrashort pulses. Applied Surface Science, 2020, 531, 147270.	6.1	26
12	Laser micromachining of silicon and cemented tungsten carbide using picosecond laser pulses in burst mode: ablation mechanisms and heat accumulation. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	29
13	Investigations of qualitative aspects with burst mode ablation of silicon and cemented tungsten carbide. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	15
14	Ablation of steel using picosecond laser pulses in burst mode. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	25
15	Microstructuring of fused silica using femtosecond laser pulses of various wavelengths. Applied Physics A: Materials Science and Processing, 2015, 121, 689-693.	2.3	7
16	Ripple formation in various metals and super-hard tetrahedral amorphous carbon films in consequence of femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2013, 110, 655-659.	2.3	34
17	Comparative study on microstructuring of steel using pico-and femtosecond laser pulses. , 2012, , .		10
18	Production of microstructures in wide-band-gap and organic materials using pulsed laser ablation at 157Ånm wavelength. Applied Physics A: Materials Science and Processing, 2010, 101, 491-495.	2.3	6