

Sören Richter

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

765
citations

687363

13
h-index

794594

19
g-index

23
all docs

23
docs citations

23
times ranked

562
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanogratings in fused silica: Formation, control, and applications. Journal of Laser Applications, 2012, 24, .	1.7	101
2	Laser induced nanogratings beyond fused silica - periodic nanostructures in borosilicate glasses and ULEâ„¸. Optical Materials Express, 2013, 3, 1161.	3.0	98
3	Tuning the structural properties of femtosecond-laser-induced nanogratings. Applied Physics A: Materials Science and Processing, 2010, 100, 1-6.	2.3	85
4	The role of self-trapped excitons and defects in the formation of nanogratings in fused silica. Optics Letters, 2012, 37, 482.	3.3	68
5	In situ imaging of hole shape evolution in ultrashort pulse laser drilling. Optics Express, 2010, 18, 20395.	3.4	63
6	Ultrastable bonding of glass with femtosecond laser bursts. Applied Optics, 2013, 52, 1149.	1.8	58
7	Ultrashort laser pulse induced nanogratings in borosilicate glass. Applied Physics Letters, 2014, 104, .	3.3	48
8	Formation of periodic disruptions induced by heat accumulation of femtosecond laser pulses. Optics Express, 2013, 21, 15452.	3.4	43
9	[INVITED] Laser welding of glasses at high repetition rates â€œ Fundamentals and prospects. Optics and Laser Technology, 2016, 83, 59-66.	4.6	43
10	Evolution of hole shape and size during short and ultrashort pulse laser deep drilling. Optics Express, 2012, 20, 27147.	3.4	35
11	Femtosecond laser written nanostructures in Ge-doped glasses. Optics Letters, 2016, 41, 1161.	3.3	30
12	The onset of ultrashort pulseâ€¸induced nanogratings. Laser and Photonics Reviews, 2016, 10, 327-334.	8.7	28
13	Ultrashort pulse induced modifications in ULE - from nanograting formation to laser darkening. Optical Materials Express, 2015, 5, 1834.	3.0	25
14	On the rewriting of ultrashort pulse-induced nanogratings. Optics Letters, 2015, 40, 2049.	3.3	12
15	Influence of pulse duration on the hole formation during short and ultrashort pulse laser deep drilling. Proceedings of SPIE, 2012, , .	0.8	9
16	Ultrashort pulse laser processing of silica at high repetition ratesâ€¸from network change to residual strain. International Journal of Applied Glass Science, 2017, 8, 233-238.	2.0	6
17	Spatial and temporal temperature distribution of ultrashort pulse induced heat accumulation in glass. , 2015, , .		4
18	Ultrashort pulse laser welding of glasses without optical contacting. Proceedings of SPIE, 2017, , .	0.8	4

#	ARTICLE	IF	CITATIONS
19	Erasure and formation of femtosecond laser-induced nanostructures. , 2015, , .		2
20	Nanogratings in Fused Silica: Structure, Formation and Applications. Nano-optics and Nanophotonics, 2015, , 49-71.	0.2	2
21	Influence of ambient pressure on the hole formation process in ultrashort pulse laser deep drilling. Proceedings of SPIE, 2013, , .	0.8	1
22	Ultrashort pulse-induced nanogratings: Temperature stable optically active phase elements. , 2013, , .		0
23	Ultrashort pulse induced nanogratings. MATEC Web of Conferences, 2013, 8, 03001.	0.2	0