

Simon Schwarz

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

235
citations

933447

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996975

15
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19
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docs citations

19
times ranked

218
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication of a high-quality axicon by femtosecond laser ablation and CO ₂ laser polishing for quasi-Bessel beam generation. Optics Express, 2018, 26, 23287.	3.4	33
2	Enhanced ablation efficiency using GHz bursts in micromachining fused silica. Optics Letters, 2021, 46, 282.	3.3	29
3	Laser-fabricated axicons challenging the conventional optics in glass processing applications. Optics Express, 2020, 28, 5715.	3.4	23
4	Time Dependence of Wetting Behavior Upon Applying Hierarchic Nano-Micro Periodic Surface Structures on Brass Using Ultra Short Laser Pulses. Applied Sciences (Switzerland), 2018, 8, 700.	2.5	21
5	Generation of laser-induced periodic surface structures on transparent material-fused silica. Applied Physics Letters, 2016, 108, 181607.	3.3	20
6	Possibilities of Dry and Lubricated Friction Modification Enabled by Different Ultrashort Laser-Based Surface Structuring Methods. Lubricants, 2019, 7, 43.	2.9	18
7	Fabrication and evaluation of negative axicons for ultrashort pulsed laser applications. Optics Express, 2020, 28, 26207.	3.4	17
8	Fabrication of Cylindrical Lenses by Combining Ultrashort Pulsed Laser and CO ₂ Laser. Journal of Laser Micro Nanoengineering, 2017, 12, 76-79.	0.1	16
9	One-dimensional low spatial frequency LIPSS with rotating orientation on fused silica. Applied Surface Science, 2017, 411, 113-116.	6.1	15
10	Rapid fabrication of precise glass axicon arrays by an all laser-based manufacturing technology. Journal of Laser Applications, 2020, 32, .	1.7	13
11	Surface Plasmon Polariton Triggered Generation of 1D-Low Spatial Frequency LIPSS on Fused Silica. Applied Sciences (Switzerland), 2018, 8, 1624.	2.5	11
12	Ultrashort pulsed laser backside ablation of fused silica. Optics Express, 2021, 29, 23477.	3.4	7
13	Compact Beam Homogenizer Module with Laser-Fabricated Lens-Arrays. Applied Sciences (Switzerland), 2021, 11, 1018.	2.5	4
14	Influence of laser wavelength on the modification of friction between 100Cr6 steel and polytetrafluoroethylene by femtosecond laser-induced periodic surface structures. Journal of Laser Applications, 2020, 32, .	1.7	3
15	Influence of Periodic Non-Uniformities of Well-Structured Sapphire Surface by LIPSS on the Alignment of Nematic Liquid Crystal. Nanomaterials, 2022, 12, 508.	4.1	2
16	Laser-fabricated axicons for glass dicing applications. Procedia CIRP, 2020, 94, 957-961.	1.9	1
17	All laser-based fabrication of optical elements. , 2020, , .		1
18	Manufacturing of optical elements by non-contact laser processing. , 2020, , .		0