Sha Tao

List of Publications by Year
in descending order

14	233	1040056 9	1199594 12
papers	citations	h-index	g-index

14	14	14	200
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Infrared long nanosecond laser pulse ablation of silicon: Integrated two-dimensional modeling and time-resolved experimental study. Applied Surface Science, 2012, 258, 7766-7773.	6.1	45
2	Numerical modeling of laser shock peening with femtosecond laser pulses and comparisons to experiments. Applied Surface Science, 2010, 256, 4376-4382.	6.1	43
3	Physical mechanism of silicon ablation with long nanosecond laser pulses at 1064nm through time-resolved observation. Applied Surface Science, 2011, 257, 2886-2890.	6.1	40
4	Thermal modeling and experimental study of infrared nanosecond laser ablation of silicon. Journal of Applied Physics, 2009, 106, .	2.5	30
5	Backward growth of plasma induced by long nanosecond laser pulse ablation. Applied Physics Letters, 2011, 99, 051106.	3.3	20
6	The effect of emitted electrons during femtosecond laserâ€“metal interactions: A physical explanation for coulomb explosion in metals. Applied Surface Science, 2014, 298, 90-94.	6.1	13
7	Nanosecond laser pulse interactions with breakdown plasma in gas medium confined in a microhole. Applied Physics B: Lasers and Optics, 2013, 113, 251-258.	2.2	12
8	A comparative study of the interaction between microhole sidewall and the plasma generated by nanosecond and femtosecond laser ablation of deep microholes. Journal of Manufacturing Processes, 2012, 14, 233-242.	5.9	10
9	Study of laser beam propagation in microholes and the effect on femtosecond laser micromachining. Journal of Applied Physics, 2011, 109, 123506.	2.5	9
10	The Interactions of Microhole Sidewall With Plasma induced by Femtosecond Laser Ablation in High-Aspect-Ratio Microholes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	5
11	Early-stage effects of residual charges in a metal target on emitted electrons induced by femtosecond laserâ€“metal interactions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 404-407.	2.1	4
12	Modeling of picosecond laser-induced plasma amplification inside a microhole and an implied novel technology to drill microholes with varying diameters with depth. Manufacturing Letters, 2016, 7, 1-5.	2.2	2
13	INFRARED NANOSECOND LASER ABLATION OF SILICON: THE SPATIAL MULTI-PULSE ENHANCEMENT EFFECT AND ITS DEPENDENCE ON LASER PULSE DURATION â€“ TECHNICAL COMMUNICATION. Machining Science and Technology, 2009, 13, 427-436.	2.5	0
14	Amplification of Plasma at Different Initial Temperatures inside a Microhole by a Short Laser Pulse and the Effect on the Hole Sidewall. Procedia Manufacturing, 2016, 5, 724-733.	1.9	0