

# Matthieu Schneider

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

646  
citations

933447

10  
h-index

1058476

14  
g-index

18  
all docs

18  
docs citations

18  
times ranked

668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental analysis of spatter generation and melt-pool behavior during the powder bed laser beam melting process. Journal of Materials Processing Technology, 2018, 251, 376-386.	6.3	225
2	Analysis of laser "melt pool" powder bed interaction during the selective laser melting of a stainless steel. Journal of Laser Applications, 2017, 29, .	1.7	117
3	Analysis and possible estimation of keyhole depths evolution, using laser operating parameters and material properties. Journal of Laser Applications, 2018, 30, .	1.7	44
4	Measurement of laser absorptivity for operating parameters characteristic of laser drilling regime. Journal Physics D: Applied Physics, 2008, 41, 155502.	2.8	39
5	Gas investigation for laser drilling. Journal of Laser Applications, 2007, 19, 165-169.	1.7	35
6	Influence of gas atmosphere (Ar or He) on the laser powder bed fusion of a Ni-based alloy. Journal of Materials Processing Technology, 2021, 288, 116851.	6.3	33
7	Investigation of delamination mechanisms during a laser drilling on a cobalt-base superalloy. Journal of Materials Processing Technology, 2013, 213, 1682-1691.	6.3	31
8	Laser impulse coupling measurements at 400 fs and 80 ps using the LULI facility at 1057 nm wavelength. Journal of Applied Physics, 2017, 122, .	2.5	28
9	Laser heat treatment of martensitic steel and dual-phase steel with high martensite content. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 752, 128-135.	5.6	19
10	Transfers from Earth to LEO and LEO to interplanetary space using lasers. Acta Astronautica, 2018, 146, 92-102.	3.2	17
11	Parametric study of drilling with new innovative laser source: Application to percussion regime. , 2004, , .		12
12	Gas investigation on laser drilling. , 2005, , .		10
13	Modeling laser drilling in percussion regime using constraint natural element method. International Journal of Material Forming, 2017, 10, 205-219.	2.0	10
14	A fast method for morphological analysis of laser drilling holes. Journal of Laser Applications, 2010, 22, 127-131.	1.7	9
15	Recoil pressure and surface temperature in laser drilling. , 2011, , .		6
16	Laser based method for surface tension and density measurements for liquid refractory metals (Nb,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.7	6
17	Influence of incident angle on laser drilling. , 2007, , .		3
18	Study of spatter ejections during laser-powder bed fusion process for aluminum alloys. Journal of Laser Applications, 2021, 33, 042047.	1.7	2