

# Ahmad W Alshaer

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4804521/publications.pdf>

Version: 2024-02-01

9  
papers

243  
citations

1478505

6  
h-index

1720034

7  
g-index

9  
all docs

9  
docs citations

9  
times ranked

211  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effects of short pulse laser surface cleaning on porosity formation and reduction in laser welding of aluminium alloy for automotive component manufacture. Optics and Laser Technology, 2014, 64, 162-171.	4.6	114
2	Smoothed Particle Hydrodynamics (SPH) modelling of transient heat transfer in pulsed laser ablation of Al and associated free-surface problems. Computational Materials Science, 2017, 127, 161-179.	3.0	41
3	An investigation of the strength and stiffness of weight-saving sandwich beams with CFRP face sheets and seven 3D printed cores. Composite Structures, 2021, 257, 113391.	5.8	24
4	Effect of filler wire properties on porosity formation in laser welding of AC-170PX aluminium alloy for lightweight automotive component manufacture. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 994-1006.	2.4	22
5	Understanding the Effect of Heat Input and Sheet Gap on Porosity Formation in Fillet Edge and Flange Couch Laser Welding of AC-170PX Aluminum Alloy for Automotive Component Manufacture. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	19
6	An Experimental and Numerical Investigation of a Novel 3D Printed Sandwich Material for Motorsport Applications. Procedia Manufacturing, 2019, 36, 11-18.	1.9	16
7	The influence of picosecond laser generated periodic structures on bacterial behaviour. Applied Surface Science, 2021, 540, 148292.	6.1	6
8	A Comparison of Characteristics of Periodic Surface Micro/Nano Structures Generated Via Single Laser Beam Direct Writing and Particle Lens Array Parallel Beam Processing. Journal of Micro and Nano-Manufacturing, 2021, 9, .	0.7	1
9	Effect of laser surface treatment on solar cell efficiency. , 0, , .		0