

N Aboulkhair

List of Publications by Year in descending order

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30
papers

4,511
citations

361413
20
h-index

501196
28
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31
all docs

31
docs citations

31
times ranked

3359
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printing of Aluminium alloys: Additive Manufacturing of Aluminium alloys using selective laser melting. Progress in Materials Science, 2019, 106, 100578.	32.8	872
2	Reducing porosity in AlSi10Mg parts processed by selective laser melting. Additive Manufacturing, 2014, 1-4, 77-86.	3.0	608
3	The microstructure and mechanical properties of selectively laser melted AlSi10Mg: The effect of a conventional T6-like heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 667, 139-146.	5.6	478
4	A mechanical property evaluation of graded density Al-Si10-Mg lattice structures manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 264-274.	5.6	461
5	Compressive failure modes and energy absorption in additively manufactured double gyroid lattices. Additive Manufacturing, 2017, 16, 24-29.	3.0	258
6	A Study on the Laser Spatter and the Oxidation Reactions During Selective Laser Melting of 316L Stainless Steel, Al-Si10-Mg, and Ti-6Al-4V. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3842-3851.	2.2	253
7	Quantification and characterisation of porosity in selectively laser melted Alâ€Si10â€Mg using X-ray computed tomography. Materials Characterization, 2016, 111, 193-204.	4.4	249
8	On the formation of AlSi10Mg single tracks and layers in selective laser melting: Microstructure and nano-mechanical properties. Journal of Materials Processing Technology, 2016, 230, 88-98.	6.3	248
9	Improving the fatigue behaviour of a selectively laser melted aluminium alloy: Influence of heat treatment and surface quality. Materials and Design, 2016, 104, 174-182.	7.0	240
10	On the Precipitation Hardening of Selective Laser Melted AlSi10Mg. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3337-3341.	2.2	220
11	Fractal scan strategies for selective laser melting of â€unweldableâ€™ nickel superalloys. Additive Manufacturing, 2017, 15, 113-122.	3.0	104
12	Selective laser melting of aluminum alloys. MRS Bulletin, 2017, 42, 311-319.	3.5	88
13	A comparison of Ti-6Al-4V in-situ alloying in Selective Laser Melting using simply-mixed and satellited powder blend feedstocks. Materials Characterization, 2018, 143, 118-126.	4.4	88
14	The Influence of Iron in Minimizing the Microstructural Anisotropy of Ti-6Al-4V Produced by Laser Powder-Bed Fusion. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2444-2459.	2.2	58
15	The Effects of Feature Sizes in Selectively Laser Melted Ti-6Al-4V Parts on the Validity of Optimised Process Parameters. Materials, 2020, 13, 117.	2.9	41
16	Towards digital metal additive manufacturing via high-temperature drop-on-demand jetting. Additive Manufacturing, 2019, 30, 100930.	3.0	36
17	Valorisation of shrimp and rice straw waste into food packaging applications. Ain Shams Engineering Journal, 2020, 11, 1219-1226.	6.1	34
18	Reducing porosity in additive manufacturing. Metal Powder Report, 2015, 70, 79-81.	0.1	27

#	ARTICLE	IF	CITATIONS
19	Bi-modally structured pure aluminum for enhanced strength and ductility. Materials and Design, 2015, 83, 493-498.	7.0	24
20	Evolution of carbon nanotubes and their metallurgical reactions in Al-based composites in response to laser irradiation during selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138307.	5.6	23
21	Controlling crack formation and porosity in laser powder bed fusion: Alloy design and process optimisation. Additive Manufacturing, 2020, 34, 101360.	3.0	22
22	A Tripropylene Glycol Diacrylate-based Polymeric Support Ink for Material Jetting. Additive Manufacturing, 2017, 16, 153-161.	3.0	21
23	Nanoindentation Shows Uniform Local Mechanical Properties Across Melt Pools And Layers Produced By Selective Laser Melting Of AlSi 10Mg Alloy. Advanced Materials Letters, 2016, 7, 13-16.	0.6	15
24	Looking for Links between Natural Fibresâ€™ Structures and Their Physical Properties. Conference Papers in Materials Science, 2013, 2013, 1-10.	0.1	14
25	Laser calorimetry for assessment of melting behaviour in multi-walled carbon nanotube decorated aluminium by laser powder bed fusion. CIRP Annals - Manufacturing Technology, 2020, 69, 197-200.	3.6	12
26	Generation of graded porous structures by control of process parameters in the selective laser melting of a fixed ratio salt-metal feedstock. Journal of Manufacturing Processes, 2020, 55, 249-253.	5.9	7
27	Nano-hardness and microstructure of selective laser melted AlSi10Mg scan tracks. Proceedings of SPIE, 2015, , .	0.8	5
28	Effect of Milling Time and Annealing on the Mechanical Response of Mechanically Milled Aluminium. Advanced Materials Research, 2012, 445, 815-820.	0.3	3
29	3D-printed Metasurfaces of Capped Helices Providing Broadband Negative Mode Index. , 2020, , .		1
30	Broadband negative-index surface-waves on arrays of capped helices. Physical Review Research, 2021, 3, .	3.6	0