N Aboulkhair

List of Publications by Year
in descending order

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30 papers	4,511 citations	361296 20 h-index	501076 28 g-index
31 all docs	31 docs citations	31 times ranked	3359 citing authors

#	Article	IF	Citations
1	Broadband negative-index surface-waves on arrays of capped helices. Physical Review Research, 2021, 3, .	1.3	0
2	The Effects of Feature Sizes in Selectively Laser Melted Ti-6Al-4V Parts on the Validity of Optimised Process Parameters. Materials, 2020, 13, 117.	1.3	41
3	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.	1.7	12
4	Controlling crack formation and porosity in laser powder bed fusion: Alloy design and process optimisation. Additive Manufacturing, 2020, 34, 101360.	1.7	22
5	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.	1.1	58
6	Valorisation of shrimp and rice straw waste into food packaging applications. Ain Shams Engineering Journal, 2020, 11, 1219-1226.	3.5	34
7	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.	2.8	7
8	3D-printed Metasurfaces of Capped Helices Providing Broadband Negative Mode Index. , 2020, , .		1
9	3D printing of Aluminium alloys: Additive Manufacturing of Aluminium alloys using selective laser melting. Progress in Materials Science, 2019, 106, 100578.	16.0	872
10	Towards digital metal additive manufacturing via high-temperature drop-on-demand jetting. Additive Manufacturing, 2019, 30, 100930.	1.7	36
11	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.	2.6	23
12	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.	1.9	88
13	Fractal scan strategies for selective laser melting of â€˜unweldableâ€™ nickel superalloys. Additive Manufacturing, 2017, 15, 113-122.	1.7	104
14	Selective laser melting of aluminum alloys. MRS Bulletin, 2017, 42, 311-319.	1.7	88
15	Compressive failure modes and energy absorption in additively manufactured double gyroid lattices. Additive Manufacturing, 2017, 16, 24-29.	1.7	258
16	A Tripropylene Glycol Diacrylate-based Polymeric Support Ink for Material Jetting. Additive Manufacturing, 2017, 16, 153-161.	1.7	21
17	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.	2.6	478
18	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.	3.3	240

#	Article	IF	Citations
19	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.	2.6	461
20	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.	3.1	248
21	Quantification and characterisation of porosity in selectively laser melted Alâ€“Si10â€“Mg using X-ray computed tomography. Materials Characterization, 2016, 111, 193-204.	1.9	249
22	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.	0.3	15
23	Bi-modally structured pure aluminum for enhanced strength and ductility. Materials and Design, 2015, 83, 493-498.	3.3	24
24	Nano-hardness and microstructure of selective laser melted AlSi10Mg scan tracks. Proceedings of SPIE, 2015, , .	0.8	5
25	On the Precipitation Hardening of Selective Laser Melted AlSi10Mg. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 3337-3341.	1.1	220
26	Reducing porosity in additive manufacturing. Metal Powder Report, 2015, 70, 79-81.	0.3	27
27	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.	1.1	253
28	Reducing porosity in AlSi10Mg parts processed by selective laser melting. Additive Manufacturing, 2014, 1-4, 77-86.	1.7	608
29	Looking for Links between Natural Fibresâ€™ Structures and Their Physical Properties. Conference Papers in Materials Science, 2013, 2013, 1-10.	0.1	14
30	Effect of Milling Time and Annealing on the Mechanical Response of Mechanically Milled Aluminium. Advanced Materials Research, 2012, 445, 815-820.	0.3	3