

N Aboulkhair

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

4,511
citations

361296

20
h-index

501076

28
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31
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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. <i>Progress in Materials Science</i> , 2019, 106, 100578.	16.0	872
2	Reducing porosity in AlSi10Mg parts processed by selective laser melting. <i>Additive Manufacturing</i> , 2014, 1-4, 77-86.	1.7	608
3	The microstructure and mechanical properties of selectively laser melted AlSi10Mg: The effect of a conventional T6-like heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 139-146.	2.6	478
4	A mechanical property evaluation of graded density Al-Si10-Mg lattice structures manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 264-274.	2.6	461
5	Compressive failure modes and energy absorption in additively manufactured double gyroid lattices. <i>Additive Manufacturing</i> , 2017, 16, 24-29.	1.7	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. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3842-3851.	1.1	253
7	Quantification and characterisation of porosity in selectively laser melted Al-Si10-Mg using X-ray computed tomography. <i>Materials Characterization</i> , 2016, 111, 193-204.	1.9	249
8	On the formation of AlSi10Mg single tracks and layers in selective laser melting: Microstructure and nano-mechanical properties. <i>Journal of Materials Processing Technology</i> , 2016, 230, 88-98.	3.1	248
9	Improving the fatigue behaviour of a selectively laser melted aluminium alloy: Influence of heat treatment and surface quality. <i>Materials and Design</i> , 2016, 104, 174-182.	3.3	240
10	On the Precipitation Hardening of Selective Laser Melted AlSi10Mg. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3337-3341.	1.1	220
11	Fractal scan strategies for selective laser melting of "unweldable" nickel superalloys. <i>Additive Manufacturing</i> , 2017, 15, 113-122.	1.7	104
12	Selective laser melting of aluminum alloys. <i>MRS Bulletin</i> , 2017, 42, 311-319.	1.7	88
13	A comparison of Ti-6Al-4V in-situ alloying in Selective Laser Melting using simply-mixed and satellited powder blend feedstocks. <i>Materials Characterization</i> , 2018, 143, 118-126.	1.9	88
14	The Influence of Iron in Minimizing the Microstructural Anisotropy of Ti-6Al-4V Produced by Laser Powder-Bed Fusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 2444-2459.	1.1	58
15	The Effects of Feature Sizes in Selectively Laser Melted Ti-6Al-4V Parts on the Validity of Optimised Process Parameters. <i>Materials</i> , 2020, 13, 117.	1.3	41
16	Towards digital metal additive manufacturing via high-temperature drop-on-demand jetting. <i>Additive Manufacturing</i> , 2019, 30, 100930.	1.7	36
17	Valorisation of shrimp and rice straw waste into food packaging applications. <i>Ain Shams Engineering Journal</i> , 2020, 11, 1219-1226.	3.5	34
18	Reducing porosity in additive manufacturing. <i>Metal Powder Report</i> , 2015, 70, 79-81.	0.3	27

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19	Bi-modally structured pure aluminum for enhanced strength and ductility. <i>Materials and Design</i> , 2015, 83, 493-498.	3.3	24
20	Evolution of carbon nanotubes and their metallurgical reactions in Al-based composites in response to laser irradiation during selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 765, 138307.	2.6	23
21	Controlling crack formation and porosity in laser powder bed fusion: Alloy design and process optimisation. <i>Additive Manufacturing</i> , 2020, 34, 101360.	1.7	22
22	A Tripropylene Glycol Diacrylate-based Polymeric Support Ink for Material Jetting. <i>Additive Manufacturing</i> , 2017, 16, 153-161.	1.7	21
23	Nanoindentation Shows Uniform Local Mechanical Properties Across Melt Pools And Layers Produced By Selective Laser Melting Of AlSi 10Mg Alloy. <i>Advanced Materials Letters</i> , 2016, 7, 13-16.	0.3	15
24	Looking for Links between Natural Fibres™ Structures and Their Physical Properties. <i>Conference Papers in Materials Science</i> , 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. <i>CIRP Annals - Manufacturing Technology</i> , 2020, 69, 197-200.	1.7	12
26	Generation of graded porous structures by control of process parameters in the selective laser melting of a fixed ratio salt-metal feedstock. <i>Journal of Manufacturing Processes</i> , 2020, 55, 249-253.	2.8	7
27	Nano-hardness and microstructure of selective laser melted AlSi10Mg scan tracks. <i>Proceedings of SPIE</i> , 2015, , .	0.8	5
28	Effect of Milling Time and Annealing on the Mechanical Response of Mechanically Milled Aluminium. <i>Advanced Materials Research</i> , 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. <i>Physical Review Research</i> , 2021, 3, .	1.3	0