Marco Simonelli

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microstructure and tensile properties of additive manufactured Ti-6Al-4V with refined prior-β grain structure obtained by rapid heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141271.	5.6	49
2	Alloy design against the solidification cracking in fusion additive manufacturing: an application to a FeCrAl alloy. Materials Research Letters, 2021, 9, 350-357.	8.7	12
3	Processability of Atypical WC-Co Composite Feedstock by Laser Powder-Bed Fusion. Materials, 2020, 13, 50.	2.9	7
4	Grain refinement in laser powder bed fusion: The influence of dynamic recrystallization and recovery. Materials and Design, 2020, 196, 109181.	7.0	56
5	Controlling crack formation and porosity in laser powder bed fusion: Alloy design and process optimisation. Additive Manufacturing, 2020, 34, 101360.	3.0	22
6	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
7	Refinement of the grain structure of additive manufactured titanium alloys via epitaxial recrystallization enabled by rapid heat treatment. Scripta Materialia, 2020, 180, 66-70.	5.2	68
8	3D printing of Aluminium alloys: Additive Manufacturing of Aluminium alloys using selective laser melting. Progress in Materials Science, 2019, 106, 100578.	32.8	872
9	Towards digital metal additive manufacturing via high-temperature drop-on-demand jetting. Additive Manufacturing, 2019, 30, 100930.	3.0	36
10	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
11	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
12	Combined Inkjet Printing and Infrared Sintering of Silver Nanoparticles using a Swathe-by-Swathe and Layer-by-Layer Approach for 3-Dimensional Structures. ACS Applied Materials & Interfaces, 2017, 9, 6560-6570.	8.0	38
13	Calorimetric study and microstructure analysis of the order-disorder phase transformation in silicon steel built by SLM. Journal of Alloys and Compounds, 2017, 722, 293-301.	5.5	46
14	Additive Manufacture of Three Dimensional Nanocomposite Based Objects through Multiphoton Fabrication. Polymers, 2016, 8, 325.	4.5	24
15	Metallurgy of high-silicon steel parts produced using Selective Laser Melting. Acta Materialia, 2016, 110, 207-216.	7.9	265
16	Mechanical Properties of Ti-6Al-4V Selectively Laser Melted Parts with Body-Centred-Cubic Lattices of Varying cell size. Experimental Mechanics, 2015, 55, 1261-1272.	2.0	91
17	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
18	The formation of α + β microstructure in as-fabricated selective laser melting of Ti–6Al–4V. Journal of Materials Research, 2014, 29, 2028-2035.	2.6	98

#	Article	IF	CITATIONS
19	On the Texture Formation of Selective Laser Melted Ti-6Al-4V. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2863-2872.	2.2	264
20	Effect of the build orientation on the mechanical properties and fracture modes of SLM Ti–6Al–4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 616, 1-11.	5.6	702
21	Fracture Mechanisms in High-Cycle Fatigue of Selective Laser Melted Ti-6Al-4V. Key Engineering Materials, 0, 627, 125-128.	0.4	11