Marco Simonelli

List of Publications by Year in descending order

21 papers	3,083 citations	471061 17 h-index	752256 20 g-index
21 all docs	21 docs citations	21 times ranked	2742 citing authors

#	Article	IF	Citations
1	Microstructure and tensile properties of additive manufactured Ti-6Al-4V with refined prior-Î² grain structure obtained by rapid heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141271.	2.6	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.	4.1	12
3	Processability of Atypical WC-Co Composite Feedstock by Laser Powder-Bed Fusion. Materials, 2020, 13, 50.	1.3	7
4	Grain refinement in laser powder bed fusion: The influence of dynamic recrystallization and recovery. Materials and Design, 2020, 196, 109181.	3.3	56
5	Controlling crack formation and porosity in laser powder bed fusion: Alloy design and process optimisation. Additive Manufacturing, 2020, 34, 101360.	1.7	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.	1.1	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.	2.6	68
8	3D printing of Aluminium alloys: Additive Manufacturing of Aluminium alloys using selective laser melting. Progress in Materials Science, 2019, 106, 100578.	16.0	872
9	Towards digital metal additive manufacturing via high-temperature drop-on-demand jetting. Additive Manufacturing, 2019, 30, 100930.	1.7	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.	2.6	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.	1.9	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.	4.0	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.	2.8	46
14	Additive Manufacture of Three Dimensional Nanocomposite Based Objects through Multiphoton Fabrication. Polymers, 2016, 8, 325.	2.0	24
15	Metallurgy of high-silicon steel parts produced using Selective Laser Melting. Acta Materialia, 2016, 110, 207-216.	3.8	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.	1.1	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.	1.1	253
18	The formation of Î± + Î² microstructure in as-fabricated selective laser melting of Tiâ€“6Alâ€“4V. Journal of Materials Research, 2014, 29, 2028-2035.	1.2	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.	1.1	264
20	Effect of the build orientation on the mechanical properties and fracture modes of SLM Tiâ€“6Alâ€“4V. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 616, 1-11.	2.6	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