Cheng Chang

List of Publications by Year
in descending order

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18 papers	541 citations	687363 13 h-index	839539 18 g-index
18 all docs	18 docs citations	18 times ranked	320 citing authors

#	Article	IF	Citations
1	Microstructure and mechanical properties of pure copper manufactured by selective laser melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 789, 139615.	5.6	76
2	Selective laser melting (SLM) of CX stainless steel: Theoretical calculation, process optimization and strengthening mechanism. Journal of Materials Science and Technology, 2021, 73, 151-164.	10.7	61
3	Pure copper components fabricated by cold spray (CS) and selective laser melting (SLM) technology. Surface and Coatings Technology, 2020, 395, 125936.	4.8	61
4	Study of the microstructure and mechanical performance of C-X stainless steel processed by selective laser melting (SLM). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 781, 139227.	5.6	57
5	Effect of building directions on the surface roughness, microstructure, and tribological properties of selective laser melted Inconel 625. Journal of Materials Processing Technology, 2021, 288, 116878.	6.3	49
6	Influence of post-heat treatments on the mechanical properties of CX stainless steel fabricated by selective laser melting. Journal of Materials Science, 2020, 55, 8303-8316.	3.7	41
7	Microstructure, interface characteristics and tribological properties of laser cladded NiCrBSi-WC coatings on PH 13-8 Mo steel. Tribology International, 2021, 157, 106873.	5.9	39
8	In situ formation of D022-Al3Ti during selective laser melting of nano-TiC/AlSi10Mg alloy prepared by electrostatic self-assembly. Vacuum, 2021, 188, 110179.	3.5	30
9	Effect of heat treatment on the corrosion resistance behavior of selective laser melted Ti6Al4V ELI. Surface and Coatings Technology, 2020, 396, 125955.	4.8	25
10	Heat treatment induced microstructural evolution, oxidation behavior and tribological properties of Fe-12Cr-9Ni-2Al steel (CX steel) prepared using selective laser melting. Surface and Coatings Technology, 2022, 429, 127982.	4.8	18
11	Microstructure and magnetic properties of FeSiBCrC soft magnetic alloy manufactured by selective laser melting. Materials Letters, 2021, 290, 129469.	2.6	15
12	Microstructure and mechanical deformation behavior of selective laser melted Ti6Al4V ELI alloy porous structures. Materials Letters, 2020, 277, 128366.	2.6	14
13	Effect of Laser Energy Density on Surface Morphology, Microstructure, and Magnetic Properties of Selective Laser Melted Fe-3wt.% Si Alloys. Journal of Materials Engineering and Performance, 2021, 30, 5020-5030.	2.5	13
14	Microstructure and tribological property of selective laser melted Fe-Mn-Al-C alloy. Materials Letters, 2020, 270, 127699.	2.6	12
15	Effect of heat treatment on residual stress and wear resistance of CX stainless steel manufactured by Selective Laser Melting. Procedia CIRP, 2021, 104, 738-743.	1.9	11
16	Study on microstructure and tribological behavior of the selective laser melted MgZnCa alloy. Materials Letters, 2022, 309, 131439.	2.6	9
17	A novel hierarchical manufacturing method of the selective laser melted Al 7075 alloy. Materials Characterization, 2022, 191, 112124.	4.4	8
18	Finished surface morphology, microstructure and magnetic properties of selective laser melted Fe-50wt% Ni permalloy. Acta Metallurgica Sinica (English Letters), 2022, 35, 1439-1452.	2.9	2