

Zhiheng Hu

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

2,368
citations

331259

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395343

33
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docs citations

33
times ranked

1572
citing authors

#	ARTICLE	IF	CITATIONS
1	Selective laser melting of high strength Al-Cu-Mg alloys: Processing, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 656, 47-54.	2.6	399
2	Effect of Zirconium addition on crack, microstructure and mechanical behavior of selective laser melted Al-Cu-Mg alloy. <i>Scripta Materialia</i> , 2017, 134, 6-10.	2.6	324
3	Experimental investigation on selective laser melting of 17-4PH stainless steel. <i>Optics and Laser Technology</i> , 2017, 87, 17-25.	2.2	173
4	Development of Micro Selective Laser Melting: The State of the Art and Future Perspectives. <i>Engineering</i> , 2019, 5, 702-720.	3.2	146
5	Effect of Zr content on formability, microstructure and mechanical properties of selective laser melted Zr modified Al-4.24Cu-1.97Mg-0.56Mn alloys. <i>Journal of Alloys and Compounds</i> , 2018, 764, 977-986.	2.8	143
6	Recrystallization-based grain boundary engineering of 316L stainless steel produced via selective laser melting. <i>Acta Materialia</i> , 2020, 200, 366-377.	3.8	132
7	Analysis of processing parameters and characteristics of selective laser melted high strength Al-Cu-Mg alloys: From single tracks to cubic samples. <i>Journal of Materials Processing Technology</i> , 2018, 256, 69-77.	3.1	115
8	Effect of heat treatments on fatigue property of selective laser melting AlSi10Mg. <i>International Journal of Fatigue</i> , 2018, 116, 513-522.	2.8	105
9	Study of residual stress in selective laser melting of Ti6Al4V. <i>Materials and Design</i> , 2020, 193, 108846.	3.3	94
10	A comparative study on single-laser and multi-laser selective laser melting AlSi10Mg: defects, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 416-423.	2.6	84
11	Selective Laser Melting of Cu 10Zn alloy powder using high laser power. <i>Powder Technology</i> , 2019, 342, 613-620.	2.1	76
12	Horizontal dimensional accuracy prediction of selective laser melting. <i>Materials and Design</i> , 2018, 160, 9-20.	3.3	68
13	On the role of Zr content into Portevin-Le Chatelier (PLC) effect of selective laser melted high strength Al-Cu-Mg-Mn alloy. <i>Materials Letters</i> , 2019, 248, 5-7.	1.3	66
14	Microstructure, mechanical properties and strengthening mechanisms of AlCu5MnCdVA aluminum alloy fabricated by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 154-166.	2.6	65
15	Micro selective laser melting of NiTi shape memory alloy: Defects, microstructures and thermal/mechanical properties. <i>Optics and Laser Technology</i> , 2020, 131, 106374.	2.2	61
16	Contact angle evolution during selective laser melting. <i>Materials and Design</i> , 2018, 139, 304-313.	3.3	42
17	On the role of atmospheric oxygen into mechanical properties and fracture behavior of selective laser melted AlCu5MnCdVA. <i>Materials and Design</i> , 2018, 150, 18-27.	3.3	39
18	Effect of rescanning cycles on the characteristics of selective laser melting of Ti6Al4V. <i>Optics and Laser Technology</i> , 2020, 122, 105890.	2.2	35

#	ARTICLE	IF	CITATIONS
19	Hierarchical sheet triply periodic minimal surface lattices: Design, geometric and mechanical performance. <i>Materials and Design</i> , 2021, 209, 109931.	3.3	31
20	Interfacial characteristics and mechanical properties of additive manufacturing martensite stainless steel on the Cu-Cr alloy substrate by directed energy deposition. <i>Journal of Materials Science and Technology</i> , 2021, 90, 121-132.	5.6	27
21	The Portevin-Le Chatelier (PLC) effect in an Al-Cu aluminum alloy fabricated by selective laser melting. <i>Materials Characterization</i> , 2021, 178, 111198.	1.9	26
22	Formation of SS316L Single Tracks in Micro Selective Laser Melting: Surface, Geometry, and Defects. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-9.	1.0	18
23	Mechanical behavior and microstructure evolution of Al-Cu-Mg alloy produced by laser powder bed fusion: Effect of heat treatment. <i>Materials Characterization</i> , 2020, 165, 110364.	1.9	18
24	Cracking criterion for high strength Al-Cu alloys fabricated by selective laser melting. <i>Additive Manufacturing</i> , 2021, 37, 101709.	1.7	14
25	A high strength Al-Li alloy produced by laser powder bed fusion: Densification, microstructure, and mechanical properties. <i>Additive Manufacturing</i> , 2020, 35, 101346.	1.7	13
26	Top surface roughness evolution during selective laser melting of AlCu5MnCdVA aluminum alloy. <i>Journal of Manufacturing Processes</i> , 2021, 64, 1180-1195.	2.8	13
27	High strength Al-Li alloy development for laser powder bed fusion. <i>Additive Manufacturing</i> , 2021, 47, 102249.	1.7	11
28	Fabrication and heat treatment of high strength Al-Cu-Mg alloy processed using selective laser melting. <i>Proceedings of SPIE</i> , 2016, , .	0.8	8
29	Aging responses of an Al-Cu alloy fabricated by selective laser melting. <i>Additive Manufacturing</i> , 2021, 37, 101635.	1.7	8
30	Micro laser powder bed fusion of stainless steel 316L: Cellular structure, grain characteristics, and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143345.	2.6	7
31	Tailoring Surface Roughness of Micro Selective Laser Melted SS316L by In-Situ Laser Remelting. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 337-343.	0.3	2
32	Influence of geometric defects on the compression behaviour of thin shell lattices fabricated by micro laser powder bed fusion. <i>Additive Manufacturing</i> , 2022, 58, 103038.	1.7	2