

Holden Hyer

List of Publications by Year in descending order

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24
papers

949
citations

471371

17
h-index

642610

23
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27
all docs

27
docs citations

27
times ranked

542
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure and tensile property of a novel AlZnMgScZr alloy additively manufactured by gas atomization and laser powder bed fusion. <i>Scripta Materialia</i> , 2019, 158, 24-28.	2.6	158
2	Composition-dependent solidification cracking of aluminum-silicon alloys during laser powder bed fusion. <i>Acta Materialia</i> , 2021, 208, 116698.	3.8	97
3	Effect of direct aging on the microstructure and tensile properties of AlSi10Mg alloy manufactured by selective laser melting process. <i>Materials Characterization</i> , 2021, 176, 111113.	1.9	79
4	Structure-property relationship in high strength and lightweight AlSi10Mg microlattices fabricated by selective laser melting. <i>Materials and Design</i> , 2019, 182, 108062.	3.3	70
5	Understanding the Laser Powder Bed Fusion of AlSi10Mg Alloy. <i>Metallography, Microstructure, and Analysis</i> , 2020, 9, 484-502.	0.5	67
6	Microstructure and mechanical properties of Zr-modified aluminum alloy 5083 manufactured by laser powder bed fusion. <i>Additive Manufacturing</i> , 2019, 28, 485-496.	1.7	60
7	Laser powder bed fusion of Al-10 wt% Ce alloys: microstructure and tensile property. <i>Journal of Materials Science</i> , 2020, 55, 14611-14625.	1.7	51
8	Process-Dependent Composition, Microstructure, and Printability of Al-Zn-Mg and Al-Zn-Mg-Sc-Zr Alloys Manufactured by Laser Powder Bed Fusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3215-3227.	1.1	48
9	An integrated computational materials engineering-anchored closed-loop method for design of aluminum alloys for additive manufacturing. <i>Materialia</i> , 2020, 9, 100574.	1.3	40
10	Microstructure, mechanical performance, and corrosion behavior of additively manufactured aluminum alloy 5083 with 0.7 and 1.0 wt% Zr addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 823, 141679.	2.6	36
11	Additive manufacturing of dense WE43 Mg alloy by laser powder bed fusion. <i>Additive Manufacturing</i> , 2020, 33, 101123.	1.7	30
12	Additive manufacturing and mechanical properties of the dense and crack free Zr-modified aluminum alloy 6061 fabricated by the laser-powder bed fusion. <i>Additive Manufacturing</i> , 2021, 41, 101966.	1.7	28
13	Process Optimization and Microstructure Analysis to Understand Laser Powder Bed Fusion of 316L Stainless Steel. <i>Metals</i> , 2021, 11, 832.	1.0	26
14	Spark Plasma Sintered B4C Structural, Thermal, Electrical and Mechanical Properties. <i>Materials</i> , 2020, 13, 1612.	1.3	22
15	Microstructural Development in As Built and Heat Treated IN625 Component Additively Manufactured by Laser Powder Bed Fusion. <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 14-27.	0.5	21
16	Elimination of extraordinarily high cracking susceptibility of aluminum alloy fabricated by laser powder bed fusion. <i>Journal of Materials Science and Technology</i> , 2022, 103, 50-58.	5.6	21
17	High strength WE43 microlattice structures additively manufactured by laser powder bed fusion. <i>Materialia</i> , 2021, 16, 101067.	1.3	18
18	Effects of Alloy Composition and Solid-State Diffusion Kinetics on Powder Bed Fusion Cracking Susceptibility. <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 5-13.	0.5	17

#	ARTICLE	IF	CITATIONS
19	Microstructural Development in Inconel 718 Nickel-Based Superalloy Additively Manufactured by Laser Powder Bed Fusion. <i>Metallography, Microstructure, and Analysis</i> , 2022, 11, 88-107.	0.5	16
20	Mechanical Behavior Assessment of Ti-6Al-4V ELI Alloy Produced by Laser Powder Bed Fusion. <i>Metals</i> , 2021, 11, 1671.	1.0	15
21	Microstructural characteristics and mechanical properties of additively manufactured Cu-10Sn alloys by laser powder bed fusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142775.	2.6	12
22	Design of heterogeneous structured Al alloys with wide processing window for laser-powder bed fusion additive manufacturing. <i>Additive Manufacturing</i> , 2021, 42, 102002.	1.7	10
23	High strength aluminum-cerium alloy processed by laser powder bed fusion. <i>Additive Manufacturing</i> , 2022, 52, 102657.	1.7	4
24	ZrB ₂ , HfB ₂ , OsB ₂ and IrB ₂ Boride Ceramics: Processing, Structure, and Properties. , 2021, , 200-215.		0