Jie Yin

List of Publications by Year
in descending order

25 papers	2,494 citations	471061 17 h-index	610482 24 g-index
25 all docs	25 docs citations	25 times ranked	1949 citing authors

#	Article	IF	Citations
1	Vaporization of alloying elements and explosion behavior during laser powder bed fusion of Cuâ€“10Zn alloy. International Journal of Machine Tools and Manufacture, 2021, 161, 103686.	6.2	50
2	Dual-beam laser-matter interaction at overlap region during multi-laser powder bed fusion manufacturing. Additive Manufacturing, 2021, 46, 102178.	1.7	14
3	Correlation between forming quality and spatter dynamics in laser powder bed fusion. Additive Manufacturing, 2020, 31, 100958.	1.7	40
4	Effect of the track length and track number on the evolution of the molten pool characteristics of SLMed Al alloy: Numerical and experimental study. Optics and Laser Technology, 2020, 123, 105924.	2.2	21
5	Effect of overlap rate and pattern on residual stress in selective laser melting. International Journal of Machine Tools and Manufacture, 2019, 145, 103433.	6.2	98
6	High-power laser-matter interaction during laser powder bed fusion. Additive Manufacturing, 2019, 29, 100778.	1.7	22
7	Effect of substrate material on the molten pool characteristics in selective laser melting of thin wall parts. International Journal of Advanced Manufacturing Technology, 2019, 105, 3221-3231.	1.5	8
8	The effect of process parameters on the residual stress of selective laser melted Inconel 718 thin-walled part. Rapid Prototyping Journal, 2019, 25, 1359-1369.	1.6	30
9	Effect of Si content on the cracking behavior of selective laser melted Al7050. Rapid Prototyping Journal, 2019, 25, 1592-1600.	1.6	14
10	The Residual Stress Distribution of Ti-6Al-4V Thin Wall in the Selective Laser Melting. IOP Conference Series: Materials Science and Engineering, 2019, 538, 012020.	0.3	1
11	Thermal behavior and grain growth orientation during selective laser melting of Ti-6Al-4V alloy. Journal of Materials Processing Technology, 2018, 260, 57-65.	3.1	56
12	Microstructure prediction of selective laser melting AlSi10Mg using finite element analysis. Materials and Design, 2018, 142, 319-328.	3.3	188
13	Microstructure and mechanical property of selective laser melted Ti6Al4V dependence on laser energy density. Rapid Prototyping Journal, 2017, 23, 217-226.	1.6	105
14	Comparison on mechanical anisotropies of selective laser melted Ti-6Al-4V alloy and 304 stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 695, 92-100.	2.6	116
15	Effect of Zirconium addition on crack, microstructure and mechanical behavior of selective laser melted Al-Cu-Mg alloy. Scripta Materialia, 2017, 134, 6-10.	2.6	324
16	Selective laser melting of Al7050 powder: Melting mode transition and comparison of the characteristics between the keyhole and conduction mode. Materials and Design, 2017, 135, 257-266.	3.3	237
17	High-temperature slide wear of Ni-Cr-Si metal silicide based composite coatings on copper substrate by laser-induction hybrid cladding. Surface and Coatings Technology, 2017, 325, 120-126.	2.2	32
18	Relationship between pool characteristic and weld porosity in laser arc hybrid welding of AA6082 aluminum alloy. Journal of Materials Processing Technology, 2017, 240, 217-222.	3.1	127

#	Article	IF	Citations
19	Formation and control of martensite in Ti-6Al-4V alloy produced by selective laser melting. Materials and Design, 2016, 108, 308-318.	3.3	573
20	Corrosion behaviors of Cr13Ni5Si2 based composite coatings prepared by laser-induction hybrid cladding. Surface and Coatings Technology, 2016, 300, 128-134.	2.2	11
21	Role of molten pool mode on formability, microstructure and mechanical properties of selective laser melted Ti-6Al-4V alloy. Materials and Design, 2016, 110, 558-570.	3.3	224
22	A finite element model of thermal evolution in laser micro sintering. International Journal of Advanced Manufacturing Technology, 2016, 83, 1847-1859.	1.5	55
23	Effects of peak laser power on laser micro sintering of nickel powder by pulsed Nd:YAG laser. Rapid Prototyping Journal, 2014, 20, 328-335.	1.6	8
24	Simulation of temperature distribution in single metallic powder layer for laser micro-sintering. Computational Materials Science, 2012, 53, 333-339.	1.4	140
25	Thermal and mechanical modeling of single metallic powder layer for laser micro sintering. , 2012, , .		0