

Chongliang Zhong

List of Publications by Year in descending order

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29
papers

1,195
citations

430874

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642732

23
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29
docs citations

29
times ranked

789
citing authors

#	ARTICLE	IF	CITATIONS
1	The influence of Laves phases on the room temperature tensile properties of Inconel 718 fabricated by powder feeding laser additive manufacturing. <i>Acta Materialia</i> , 2019, 164, 413-427.	7.9	270
2	Improvement of material performance of Inconel 718 formed by high deposition-rate laser metal deposition. <i>Materials and Design</i> , 2016, 98, 128-134.	7.0	127
3	A novel method for the molten pool and porosity formation modelling in selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , 2019, 140, 1091-1105.	4.8	87
4	A comparative study of Inconel 718 formed by High Deposition Rate Laser Metal Deposition with GA powder and PREP powder. <i>Materials and Design</i> , 2016, 107, 386-392.	7.0	81
5	Experimental study of porosity reduction in high deposition-rate Laser Material Deposition. <i>Optics and Laser Technology</i> , 2015, 75, 87-92.	4.6	72
6	Experimental study of effects of main process parameters on porosity, track geometry, deposition rate, and powder efficiency for high deposition rate laser metal deposition. <i>Journal of Laser Applications</i> , 2015, 27, .	1.7	62
7	Influence of solution heat treatment on microstructure and tensile properties of Inconel 718 formed by high-deposition-rate laser metal deposition. <i>Journal of Alloys and Compounds</i> , 2018, 740, 389-399.	5.5	62
8	Study of nickel-based super-alloys Inconel 718 and Inconel 625 in high-deposition-rate laser metal deposition. <i>Optics and Laser Technology</i> , 2019, 109, 352-360.	4.6	55
9	Laser Metal Deposition of Ti6Al4V”A Brief Review. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 764.	2.5	50
10	The Influence of the Powder Stream on High-Deposition-Rate Laser Metal Deposition with Inconel 718. <i>Metals</i> , 2017, 7, 443.	2.3	47
11	Laser metal deposition for additive manufacturing of AA5024 and nanoparticulate TiC modified AA5024 alloy composites prepared with balling milling process. <i>Optics and Laser Technology</i> , 2020, 131, 106438.	4.6	38
12	Microstructures and tensile properties of Inconel 718 formed by high deposition-rate laser metal deposition. <i>Journal of Laser Applications</i> , 2016, 28, .	1.7	34
13	Laves phase tuning for enhancing high temperature mechanical property improvement in laser directed energy deposited Inconel 718. <i>Composites Part B: Engineering</i> , 2021, 215, 108819.	12.0	33
14	The microstructure evolution and tensile properties of Inconel 718 fabricated by high-deposition-rate laser directed energy deposition. <i>Additive Manufacturing</i> , 2020, 31, 100941.	3.0	28
15	Study of process window development for high deposition-rate laser material deposition by using mixed processing parameters. <i>Journal of Laser Applications</i> , 2015, 27, .	1.7	25
16	Effect of post-deposition heat treatment on laser-TIG hybrid additive manufactured Al-Cu alloy. <i>Virtual and Physical Prototyping</i> , 2020, 15, 445-459.	10.4	25
17	Investigation of heating behavior of laser beam on powder stream in directed energy deposition. <i>Surface and Coatings Technology</i> , 2020, 397, 126061.	4.8	23
18	Microstructure homogeneity and mechanical property improvement of Inconel 718 alloy fabricated by high-deposition-rate laser directed energy deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142430.	5.6	21

#	ARTICLE	IF	CITATIONS
19	Some factors affecting porosity in directed energy deposition of AlMgScZr-alloys. Optics and Laser Technology, 2021, 143, 107337.	4.6	18
20	Laser additive manufacturing of Inconel 718 at increased deposition rates. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 844, 143196.	5.6	14
21	Handwritten Character Recognition Based on 13-point Feature of Skeleton and Self-Organizing Competition Network. , 2010, , .		6
22	Microstructures, tensile properties, and fracture mechanisms of Inconel 718 formed by HDR-LMD with PREP and GA powders. International Journal of Advanced Manufacturing Technology, 2018, 96, 2031-2041.	3.0	5
23	Image motion compensation for a certain aviation camera based on Lucy-Richardson algorithm. , 2011, , .		4
24	Development of a novel green coating process with laser. Scientific Reports, 2022, 12, 6314.	3.3	4
25	Minimum information loss method based on cross-gramian matrix for model reduction (CGMIL). , 2008, , .		1
26	An information theoretic approach to model reduction based on frequency-domain Cross-Gramian information. , 2010, , .		1
27	Image Forward Motion Compensation Method for Some Aerial Reconnaissance Camera Based on Neural Network Predictive Control. Communications in Computer and Information Science, 2011, , 237-244.	0.5	1
28	Heat Treatment Design for IN718 by Laser Metal Deposition with High Deposition Rates: Modeling, Simulation, and Experiments. 3D Printing and Additive Manufacturing, 2023, 10, 136-145.	2.9	1
29	Thermal-optical analysis for optical window under high Mach flight condition. , 2012, , .		0