

Quanquan Han

List of Publications by Year in descending order

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37
papers

1,526
citations

377584

21
h-index

388640

36
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38
all docs

38
docs citations

38
times ranked

1257
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of remelting processes on the microstructure and mechanical behaviours of 18Ni-300 maraging steel manufactured by selective laser melting. <i>Materials Characterization</i> , 2022, 184, 111648.	1.9	21
2	Influence of the TiB ₂ content on the processability, microstructure and high-temperature tensile performance of a Ni-based superalloy by laser powder bed fusion. <i>Journal of Alloys and Compounds</i> , 2022, 908, 164656.	2.8	30
3	Effects of TiB ₂ content on the processability and mechanical performance of Hastelloy-X based composites fabricated by selective laser melting. <i>Optics and Laser Technology</i> , 2022, 155, 108441.	2.2	11
4	Laser powder bed fusion of WC-reinforced Hastelloy-X composite: microstructure and mechanical properties. <i>Journal of Materials Science</i> , 2021, 56, 1768-1782.	1.7	21
5	Softening and hardening on a Zr-based bulk metallic glass induced by nanosecond laser surface melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 803, 140497.	2.6	6
6	Effect of process parameters on the microstructure and mechanical properties of AA2024 fabricated using selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 175-192.	1.5	32
7	Investigation into the microstructure and dynamic compressive properties of selective laser melted Ti-6Al-4V alloy with different heating treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140561.	2.6	29
8	Laser powder bed fusion of advanced submicrometer TiB ₂ reinforced high-performance Ni-based composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 817, 141416.	2.6	27
9	Effect of microstructure on the electrochemical dissolution behaviour of Hastelloy® X superalloy processed by selective laser melting and heat treatments. <i>Materials and Design</i> , 2021, 206, 109828.	3.3	18
10	Effects of micrometer-sized TiB ₂ on crack mitigation, mechanical and electrochemical performance of a Ni-based alloy fabricated by selective laser melting. <i>Optics and Laser Technology</i> , 2021, 142, 107240.	2.2	27
11	Laser powder bed fusion of Ni-based Hastelloy X superalloy: Microstructure, anisotropic mechanical properties and strengthening mechanisms. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 827, 142076.	2.6	25
12	The dynamics of reinforced particle migration in laser powder bed fusion of Ni-based composite. <i>Powder Technology</i> , 2021, 394, 714-723.	2.1	11
13	Numerical and experimental study of molten pool behaviour and defect formation in multi-material and functionally graded materials laser powder bed fusion. <i>Advanced Powder Technology</i> , 2021, 32, 4303-4321.	2.0	21
14	Effect of Milling Speed and Time on Graphene-Reinforced AA2024 Powder. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 215-225.	0.5	0
15	The Effect of Heat Treatment of AlSi10Mg on the Energy Absorption Performance of Surface-Based Structures. <i>Smart Innovation, Systems and Technologies</i> , 2021, , 395-402.	0.5	0
16	Effect of hot cracking on the mechanical properties of Hastelloy X superalloy fabricated by laser powder bed fusion additive manufacturing. <i>Optics and Laser Technology</i> , 2020, 124, 105984.	2.2	49
17	A novel image feature descriptor for SLM spattering pattern classification using a consumable camera. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 2955-2976.	1.5	10
18	Selective laser melting of Hastelloy X nanocomposite: Effects of TiC reinforcement on crack elimination and strength improvement. <i>Composites Part B: Engineering</i> , 2020, 202, 108442.	5.9	62

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19	Effects of TiC content on microstructure and mechanical properties of nickel-based hastelloy X nanocomposites manufactured by selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 796, 140008.	2.6	35
20	Multi-physics modelling of molten pool development and track formation in multi-track, multi-layer and multi-material selective laser melting. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119458.	2.5	99
21	Electrochemical Dissolution Behavior of Nickel-Based Hastelloy X Superalloy at Low Current Densities. <i>IEEE Access</i> , 2020, 8, 62714-62724.	2.6	24
22	Investigations in the fabrication of surface patterns for wettability modification on a Zr-based bulk metallic glass by nanosecond laser surface texturing. <i>Journal of Materials Processing Technology</i> , 2020, 283, 116714.	3.1	35
23	Effect of microstructure on the passive behavior of selective laser melting-fabricated Hastelloy X in NaNO ₃ solution. <i>Materials Characterization</i> , 2020, 165, 110370.	1.9	21
24	Additive manufacturing of high-strength crack-free Ni-based Hastelloy X superalloy. <i>Additive Manufacturing</i> , 2019, 30, 100919.	1.7	48
25	Effect of heat treatment on microstructure and mechanical behaviours of 18Ni-300 maraging steel manufactured by selective laser melting. <i>Optics and Laser Technology</i> , 2019, 120, 105725.	2.2	81
26	Investigations in nanosecond laser micromachining on the Zr _{52.8} Cu _{17.6} Ni _{14.8} Al _{9.9} Ti _{4.9} bulk metallic glass: experimental and theoretical study. <i>Journal of Materials Processing Technology</i> , 2019, 273, 116232.	3.1	16
27	Discrete element simulation of powder layer thickness in laser additive manufacturing. <i>Powder Technology</i> , 2019, 352, 91-102.	2.1	64
28	Effect of heat treatment and laser surface remelting on AlSi10Mg alloy fabricated by selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 3315-3324.	1.5	79
29	Manufacturability of AlSi10Mg overhang structures fabricated by laser powder bed fusion. <i>Materials and Design</i> , 2018, 160, 1080-1095.	3.3	114
30	Laser powder bed fusion of Hastelloy X: Effects of hot isostatic pressing and the hot cracking mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 732, 228-239.	2.6	171
31	Characterisation and milling time optimisation of nanocrystalline aluminium powder for selective laser melting. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 1429-1438.	1.5	30
32	Selective laser melting of advanced Al-Al ₂ O ₃ nanocomposites: Simulation, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 162-173.	2.6	85
33	Precision turning of optical mandrel with high steepness axisymmetric aspheric surface using arc-edged diamond cutter. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 93, 4243-4252.	1.5	3
34	Macro and nanoscale wear behaviour of Al-Al ₂ O ₃ nanocomposites fabricated by selective laser melting. <i>Composites Part B: Engineering</i> , 2017, 127, 26-35.	5.9	83
35	Synthesis and characterisation of advanced ball-milled Al-Al ₂ O ₃ nanocomposites for selective laser melting. <i>Powder Technology</i> , 2016, 297, 183-192.	2.1	122
36	Theoretical modeling and error analysis for CNC whirling of the helical surfaces of custom screws using common inserts. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 1948-1957.	1.1	4

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37	Theoretical model for CNC whirling of screw shafts using standard cutters. International Journal of Advanced Manufacturing Technology, 2013, 69, 2437-2444.	1.5	11