

# Shang Sui

## List of Publications by Year in descending order

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29  
papers

1,432  
citations

394421

19  
h-index

501196

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all docs

29  
docs citations

29  
times ranked

755  
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	The influence of Laves phases on the high-cycle fatigue behavior of laser additive manufactured Inconel 718. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 695, 6-13.	5.6	171
3	Progress and perspectives in laser additive manufacturing of key aeroengine materials. <i>International Journal of Machine Tools and Manufacture</i> , 2021, 170, 103804.	13.4	156
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	The tensile deformation behavior of laser repaired Inconel 718 with a non-uniform microstructure. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 480-487.	5.6	71
6	Microstructures and stress rupture properties of pulse laser repaired Inconel 718 superalloy after different heat treatments. <i>Journal of Alloys and Compounds</i> , 2019, 770, 125-135.	5.5	71
7	Laser solid forming additive manufacturing TiB <sub>2</sub> reinforced 2024Al composite: Microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 319-325.	5.6	70
8	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
9	The failure mechanism of 50% laser additive manufactured Inconel 718 and the deformation behavior of Laves phases during a tensile process. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 91, 2733-2740.	3.0	55
10	Additive manufacturing of multi-scale heterostructured high-strength steels. <i>Materials Research Letters</i> , 2021, 9, 291-299.	8.7	49
11	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
12	Microstructure and room-temperature tensile property of Ti-5.7Al-4.0Sn-3.5Zr-0.4Mo-0.4Si-0.4Nb-1.0Ta-0.05C with near equiaxed $\hat{\alpha}_2$ grain fabricated by laser directed energy deposition technique. <i>Journal of Materials Science and Technology</i> , 2022, 101, 308-320.	10.7	33
13	Surface morphology evolution during pulsed selective laser melting: Numerical and experimental investigations. <i>Applied Surface Science</i> , 2019, 496, 143649.	6.1	32
14	Achieving grain refinement and ultrahigh yield strength in laser aided additive manufacturing of Ti-6Al-4V alloy by trace Ni addition. <i>Virtual and Physical Prototyping</i> , 2021, 16, 417-427.	10.4	32
15	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
16	Effects of laser pulse modulation on intermetallic compounds formation for welding of Ti-6Al-4V and AA7075 using AA4047 filler. <i>Materials and Design</i> , 2022, 213, 110325.	7.0	27
17	Investigation of dissolution behavior of laves phase in inconel 718 fabricated by laser directed energy deposition. <i>Additive Manufacturing</i> , 2020, 32, 101055.	3.0	26
18	Laser aided additive manufacturing of spatially heterostructured steels. <i>International Journal of Machine Tools and Manufacture</i> , 2022, 172, 103817.	13.4	26

#	ARTICLE	IF	CITATIONS
19	Enhanced corrosion resistance of laser aided additive manufactured CoCrNi medium entropy alloys with oxide inclusion. <i>Corrosion Science</i> , 2022, 195, 109965.	6.6	26
20	Microstructure homogeneity and mechanical property improvement of Inconel 718 alloy fabricated by high-deposition-rate laser directed energy deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142430.	5.6	21
21	Study of the intrinsic mechanisms of nickel additive for grain refinement and strength enhancement of laser aided additively manufactured Ti-6Al-4V. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 035102.	12.7	18
22	IN100 Ni-based superalloy fabricated by micro-laser aided additive manufacturing: Correlation of the microstructure and fracture mechanism. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139467.	5.6	16
23	Grain refinement and improved tensile properties of Ti5Al2Sn2Zr4Mo4Cr titanium alloy fabricated by laser solid forming. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140388.	5.6	14
24	Effect of cyclic heat treatment on microstructure and mechanical properties of laser aided additive manufacturing Ti-6Al-2Sn-4Zr-2Mo alloy. , 2022, 1, 100002.		13
25	Evolution of Heterogeneous Microstructure and its Effects on Tensile Properties of Selective Laser Melted AlSi10Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4341-4355.	2.5	9
26	An enhanced finite element modelling based on self-regulation effect in directed energy deposition of Ti-6Al-4V. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1187-1199.	5.8	7
27	Effects of Powder Feed Rate on Formation of Fully Equiaxed $\beta^2$ Grains in Titanium Alloys Fabricated by Directed Energy Deposition. <i>Metals</i> , 2020, 10, 521.	2.3	6
28	Microstructures, tensile properties, and fracture mechanisms of Inconel 718 formed by HDR-LMD with PREP and GA powders. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 2031-2041.	3.0	5
29	Introduction of a new method for regulating laves phases in inconel 718 superalloy during a laser-repairing process. <i>Engineering</i> , 2022, , .	6.7	4