

# Changmeng Liu

## List of Publications by Year in descending order

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41  
papers

1,726  
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times ranked

1447  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Study on Wire-Arc Additive Manufacturing and Conventional Casting of Al-Si Alloys: Porosity, Microstructure and Mechanical Property. <i>Acta Metallurgica Sinica (English Letters)</i> , 2022, 35, 475-485.	2.9	16
2	An investigation into Ti-22Al-25Nb in-situ fabricated by electron beam freeform fabrication with an innovative twin-wire parallel feeding method. <i>Additive Manufacturing</i> , 2022, 50, 102552.	3.0	8
3	Effect of twin-wire feeding methods on the in-situ synthesis of electron beam fabricated Ti-Al-Nb intermetallics. <i>Materials and Design</i> , 2022, 215, 110509.	7.0	7
4	Microstructure tuning enables synergistic improvements in strength and ductility of wire-arc additive manufactured commercial Al-Zn-Mg-Cu alloys. <i>Virtual and Physical Prototyping</i> , 2022, 17, 649-661.	10.4	12
5	Improving mechanical strength and isotropy for wire-arc additive manufactured 304L stainless steels via controlling arc heat input. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 845, 143223.	5.6	13
6	Research on high efficiency deposition method of titanium alloy based on double-hot-wire arc additive manufacturing and heat treatment. <i>Journal of Manufacturing Processes</i> , 2022, 79, 60-69.	5.9	15
7	Microstructure and mechanical properties of unalloyed molybdenum fabricated via wire arc additive manufacturing. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 107, 105886.	3.8	7
8	Homogenizing the composition of in-situ fabricated Ti <sub>2</sub> AlNb-based alloy via manipulating the droplet transfer mode of twin-wire arc additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2022, 923, 165992.	5.5	4
9	Achieving high strength-ductility of Al-Zn-Mg-Cu alloys via hot-wire arc additive manufacturing enabled by strengthening precipitates. <i>Additive Manufacturing</i> , 2022, 58, 103042.	3.0	3
10	Hot-wire arc additive manufacturing of aluminum alloy with reduced porosity and high deposition rate. <i>Materials and Design</i> , 2021, 199, 109370.	7.0	70
11	Eliminating microstructure and mechanical anisotropy of Ti-6.5Al-2Zr-1Mo manufactured by hot-wire arc additive manufacturing through boron addition. <i>Journal of Materials Science</i> , 2021, 56, 12438-12454.	3.7	11
12	Investigation on Morphology and Mechanical Properties of Rod Units in Lattice Structures Fabricated by Selective Laser Melting. <i>Materials</i> , 2021, 14, 3994.	2.9	6
13	Improving mechanical properties of wire arc additively manufactured AA2196 Al-Li alloy by controlling solidification defects. <i>Additive Manufacturing</i> , 2021, 43, 102019.	3.0	16
14	Exploring the inclined angle limit of fabricating unsupported rods structures by pulse hot-wire arc additive manufacturing. <i>Journal of Materials Processing Technology</i> , 2021, 295, 117160.	6.3	11
15	In-situ fabrication of Ti <sub>2</sub> AlNb-based alloy through double-wire arc additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2021, 876, 160021.	5.5	21
16	Dynamic response of Ti-6.5Al-1Mo-1V-2Zr-0.1B alloy fabricated by wire arc additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140310.	5.6	18
17	Exploring a novel panel-core connection method of large size lattice sandwich structure based on wire arc additive manufacturing. <i>Materials and Design</i> , 2021, 212, 110223.	7.0	6
18	Hot-wire arc additive manufacturing Ti-6.5Al-2Zr-1Mo-1V titanium alloy: Pore characterization, microstructural evolution, and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153334.	5.5	53

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19	Obtaining large-size pyramidal lattice cell structures by pulse wire arc additive manufacturing. <i>Materials and Design</i> , 2020, 187, 108401.	7.0	19
20	Fabricating Pyramidal Lattice Structures of 304 L Stainless Steel by Wire Arc Additive Manufacturing. <i>Materials</i> , 2020, 13, 3482.	2.9	15
21	Modification of $\beta$ -phase of wire-arc additive manufactured Ti-6Al-4V alloy with boron addition. <i>Materials Characterization</i> , 2020, 169, 110616.	4.4	15
22	Understanding internal defects in Mo fabricated by wire arc additive manufacturing through 3D computed tomography. <i>Journal of Alloys and Compounds</i> , 2020, 840, 155753.	5.5	17
23	Residual stresses and distortion in the patterned printing of titanium and nickel alloys. <i>Additive Manufacturing</i> , 2019, 29, 100808.	3.0	40
24	Eliminating continuous grain boundary $\beta$ phase in laser melting deposited near $\beta^2$ titanium alloys by heat treatment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 563, 022025.	0.6	1
25	Characterization of Microstructure and Mechanical Properties of Stellite 6 Part Fabricated by Wire Arc Additive Manufacturing. <i>Metals</i> , 2019, 9, 474.	2.3	31
26	Reducing arc heat input and obtaining equiaxed grains by hot-wire method during arc additive manufacturing titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 287-294.	5.6	107
27	Residual Stress, Mechanical Properties, and Grain Morphology of Ti-6Al-4V Alloy Produced by Ultrasonic Impact Treatment Assisted Wire and Arc Additive Manufacturing. <i>Metals</i> , 2018, 8, 934.	2.3	54
28	Reducing Porosity and Refining Grains for Arc Additive Manufacturing Aluminum Alloy by Adjusting Arc Pulse Frequency and Current. <i>Materials</i> , 2018, 11, 1344.	2.9	26
29	Research on Mechanisms and Controlling Methods of Macro Defects in TC4 Alloy Fabricated by Wire Additive Manufacturing. <i>Materials</i> , 2018, 11, 1104.	2.9	25
30	Obtaining fine microstructure and unsupported overhangs by low heat input pulse arc additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2017, 27, 198-206.	5.9	57
31	Selective laser melting-wire arc additive manufacturing hybrid fabrication of Ti-6Al-4V alloy: Microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 684, 196-204.	5.6	105
32	Parameter optimization for Ti-47Al-2Cr-2Nb in selective laser melting based on geometric characteristics of single scan tracks. <i>Optics and Laser Technology</i> , 2017, 90, 71-79.	4.6	97
33	Obtaining uniform deposition with variable wire feeding direction during wire-feed additive manufacturing. <i>Materials and Manufacturing Processes</i> , 2017, 32, 1881-1886.	4.7	67
34	Microstructure and mechanical properties of 304L steel fabricated by arc additive manufacturing. <i>MATEC Web of Conferences</i> , 2017, 128, 03006.	0.2	43
35	Effect of Molten Pool Size on Microstructure and Tensile Properties of Wire Arc Additive Manufacturing of Ti-6Al-4V Alloy. <i>Materials</i> , 2017, 10, 749.	2.9	41
36	Multi-Track Friction Stir Lap Welding of 2024 Aluminum Alloy: Processing, Microstructure and Mechanical Properties. <i>Metals</i> , 2017, 7, 1.	2.3	280

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37	Wire Arc Additive Manufacturing of AZ31 Magnesium Alloy: Grain Refinement by Adjusting Pulse Frequency. <i>Materials</i> , 2016, 9, 823.	2.9	145
38	Residual Stress, Defects and Grain Morphology of Ti-6Al-4V Alloy Produced by Ultrasonic Impact Treatment Assisted Selective Laser Melting. <i>Applied Sciences (Switzerland)</i> , 2016, 6, 304.	2.5	45
39	Performance of High Layer Thickness in Selective Laser Melting of Ti6Al4V. <i>Materials</i> , 2016, 9, 975.	2.9	104
40	Beta heat treatment of laser melting deposited high strength near $\beta^2$ titanium alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 185-192.	5.6	29
41	Influence of continuous grain boundary $\beta$ on ductility of laser melting deposited titanium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 661, 145-151.	5.6	66