

Chen Shen

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,466
citations

361296

20
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330025

37
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41
all docs

41
docs citations

41
times ranked

889
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards an automated robotic arc-welding-based additive manufacturing system from CAD to finished part. CAD Computer Aided Design, 2016, 73, 66-75.	1.4	138
2	Fabricating Superior NiAl Bronze Components through Wire Arc Additive Manufacturing. Materials, 2016, 9, 652.	1.3	135
3	Fabrication of Fe-FeAl Functionally Graded Material Using the Wire-Arc Additive Manufacturing Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 763-772.	1.0	116
4	Characterization of wire arc additively manufactured titanium aluminide functionally graded material: Microstructure, mechanical properties and oxidation behaviour. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 734, 110-119.	2.6	97
5	Fabrication of iron-rich Fe-Al intermetallics using the wire-arc additive manufacturing process. Additive Manufacturing, 2015, 7, 20-26.	1.7	82
6	The effect of postproduction heat treatment on $\hat{\text{T}}^3\text{-TiAl}$ alloys produced by the GTAW-based additive manufacturing process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 86-95.	2.6	71
7	Effect of interpass temperature on in-situ alloying and additive manufacturing of titanium aluminides using gas tungsten arc welding. Additive Manufacturing, 2015, 8, 71-77.	1.7	70
8	In-depth study of the mechanical properties for Fe ₃ Al based iron aluminide fabricated using the wire-arc additive manufacturing process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 118-126.	2.6	65
9	Fabrication of Copper-Rich Cu-Al Alloy Using the Wire-Arc Additive Manufacturing Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3143-3151.	1.0	61
10	Influences of deposition current and interpass temperature to the Fe ₃ Al-based iron aluminide fabricated using wire-arc additive manufacturing process. International Journal of Advanced Manufacturing Technology, 2017, 88, 2009-2018.	1.5	60
11	The influence of post-production heat treatment on the multi-directional properties of nickel-aluminum bronze alloy fabricated using wire-arc additive manufacturing process. Additive Manufacturing, 2018, 23, 411-421.	1.7	53
12	Fabrication of $\hat{\text{T}}^3\text{-TiAl}$ intermetallic alloy using the twin-wire plasma arc additive manufacturing process: Microstructure evolution and mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141056.	2.6	41
13	On the development of pseudo-eutectic AlCoCrFeNi _{2.1} high entropy alloy using Powder-bed Arc Additive Manufacturing (PAAM) process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 802, 140639.	2.6	34
14	Effect of Al content on the microstructure and mechanical properties of $\hat{\text{T}}^3\text{-TiAl}$ alloy fabricated by twin-wire plasma arc additive manufacturing system. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 826, 142008.	2.6	31
15	Influences of postproduction heat treatments on the material anisotropy of nickel-aluminum bronze fabricated using wire-arc additive manufacturing process. International Journal of Advanced Manufacturing Technology, 2019, 103, 3199-3209.	1.5	27
16	Influence of wire-arc additive manufacturing path planning strategy on the residual stress status in one single buildup layer. International Journal of Advanced Manufacturing Technology, 2020, 111, 797-806.	1.5	27
17	Twin-wire plasma arc additive manufacturing of the Ti-45Al titanium aluminide: Processing, microstructures and mechanical properties. Intermetallics, 2021, 136, 107277.	1.8	26
18	Thermal induced phase evolution of Fe-Fe ₃ Ni functionally graded material fabricated using the wire-arc additive manufacturing process: An in-situ neutron diffraction study. Journal of Alloys and Compounds, 2020, 826, 154097.	2.8	25

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19	Thermal cycling of Fe ₃ Al based iron aluminide during the wire-arc additive manufacturing process: An in-situ neutron diffraction study. <i>Intermetallics</i> , 2018, 92, 101-107.	1.8	23
20	In-situ neutron diffraction study on the high temperature thermal phase evolution of wire-arc additively manufactured Ni ₅₃ Ti ₄₇ binary alloy. <i>Journal of Alloys and Compounds</i> , 2020, 843, 156020.	2.8	23
21	Neutron diffraction residual stress determinations in Fe ₃ Al based iron aluminide components fabricated using wire-arc additive manufacturing (WAAM). <i>Additive Manufacturing</i> , 2019, 29, 100774.	1.7	22
22	Influences of postproduction heat treatment on Fe ₃ Al-based iron aluminide fabricated using the wire-arc additive manufacturing process. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 335-344.	1.5	20
23	In-situ neutron diffraction characterization on the phase evolution of $\hat{\Gamma}^3$ -TiAl alloy during the wire-arc additive manufacturing process. <i>Journal of Alloys and Compounds</i> , 2019, 778, 280-287.	2.8	20
24	Precipitation Strengthening in Ni-Cu Alloys Fabricated Using Wire Arc Additive Manufacturing Technology. <i>Metals</i> , 2019, 9, 105.	1.0	19
25	Fabrication of FeNi intermetallic using the wire-arc additive manufacturing process: A feasibility and neutron diffraction phase characterization study. <i>Journal of Manufacturing Processes</i> , 2020, 57, 691-699.	2.8	19
26	Formation of Fe ₅ Si ₃ precipitate in the Fe ₂ Al ₅ intermetallic layer of the Al/steel dissimilar arc welding joint: A transmission electron microscopy (TEM) study. <i>Materials Characterization</i> , 2021, 178, 111236.	1.9	19
27	Neutron diffraction residual stress determinations in titanium aluminide component fabricated using the twin wire-arc additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2022, 74, 141-150.	2.8	18
28	Spatter feature analysis in laser welding based on motion tracking method. <i>Journal of Manufacturing Processes</i> , 2020, 55, 220-229.	2.8	17
29	Effects of thermal distribution strategy on a Ti-6Al-4V/304L dissimilar joint fabricated using the variable polarity cold metal transfer arc-brazing method. <i>Materials and Design</i> , 2020, 191, 108619.	3.3	15
30	Effect of the post-production heat treatment on phase evolution in the Fe ₃ Ni-FeNi functionally graded material: An in-situ neutron diffraction study. <i>Intermetallics</i> , 2021, 129, 107032.	1.8	13
31	Effect of substrate temperature on microstructure and mechanical properties of TiAl alloy fabricated using the twin-wire plasma arc additive manufacturing system. <i>Journal of Materials Science</i> , 2022, 57, 8940-8955.	1.7	12
32	Twin-wire directed energy deposition-arc of Ti-48Al-2Cr-2Nb alloy: Feasibility, microstructure, and tensile property investigation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 850, 143566.	2.6	12
33	Multi-physical modelling of alloy element transportation in wire arc additive manufacturing of a $\hat{\Gamma}^3$ -TiAl alloy. <i>International Journal of Thermal Sciences</i> , 2022, 179, 107641.	2.6	11
34	Modification and characterization of the Al concentration induced precipitate in the Fe ₃ Al-based iron aluminide fabricated using the wire-arc additive manufacturing process. <i>Materials Characterization</i> , 2021, 178, 111270.	1.9	10
35	Heat Accumulation, Microstructure Evolution, and Stress Distribution of Ti-Al Alloy Manufactured by Twin-Wire Plasma Arc Additive. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	10
36	Composition-induced microcrack defect formation in the twin-wire plasma arc additive manufacturing of binary TiAl alloy: An X-ray computed tomography-based investigation. <i>Journal of Materials Research</i> , 2021, 36, 4974-4985.	1.2	9

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37	Influence of Thermal Modification on Al-Si Coating of Hot-Stamped 22MnB5 Steel: Microstructure, Phase Transformation, and Mechanical Properties. Journal of Shanghai Jiaotong University (Science), 2021, 26, 747-756.	0.5	5
38	Fibre optic acoustic emission sensor system for hydrogen induced cold crack monitoring in welding applications. , 2016, , .		4
39	Optimization of welding parameters on pores migration in Laser-GMAW of 5083 aluminum alloy based on response surface methodology. SN Applied Sciences, 2019, 1, 1.	1.5	4
40	Microstructure and Fatigue Properties of Ti-48Al Alloy Fabricated by the Twin-Wire Plasma Arc Additive Manufacturing. Journal of Materials Engineering and Performance, 2022, 31, 8250-8260.	1.2	2