

Chenglei Fan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effects of thermal undercooling and thermal cycles on the grain and microstructure evolution of TC17 titanium alloy repaired by wire arc additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2023, 124, 3161-3169.	3.0	1
2	Arc characteristics and weld formation of aluminum alloy by AC/DC mixed GTAW. <i>Materials and Manufacturing Processes</i> , 2023, 38, 427-433.	4.7	1
3	Effect of diameter and content of zirconium dioxide on the microstructure and mechanical properties of the TC17 titanium alloy repaired by wire arc additive manufacture. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162295.	5.5	9
4	Numerical Analysis of Physical Characteristics and Heat Transfer Decoupling Behavior in Bypass Coupling Variable Polarity Plasma Arc. <i>Materials</i> , 2022, 15, 3174.	2.9	6
5	Design and evaluation of nitrogen-rich welding wires for high nitrogen stainless steel. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116885.	6.3	20
6	Grain refinement of wire arc additive manufactured titanium alloy by the combined method of boron addition and low frequency pulse arc. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 805, 140557.	5.6	29
7	Numerical simulation on the nonaxisymmetry arc characteristics in narrow gap TIG welding: responses to welding parameters. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 2229-2242.	3.0	5
8	Ultrasonic induces grain refinement in gas tungsten arc cladding AlCoCrFeNi high-entropy alloy coatings. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141607.	5.6	29
9	Effect of pulsed powder ultrasound on plasma morphology and its changing mechanism. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 1225-1232.	3.0	1
10	Effect of high Fe content on the microstructure, mechanical and corrosion properties of AlCoCrFeNi high-entropy alloy coatings prepared by gas tungsten arc cladding. <i>Surface and Coatings Technology</i> , 2021, 418, 127242.	4.8	30
11	AlCoCrFeNi high-entropy alloy coatings prepared by gas tungsten arc cladding: Microstructure, mechanical and corrosion properties. <i>Intermetallics</i> , 2021, 138, 107337.	3.9	19
12	Effects of trace Sn and Cr addition on microstructure and mechanical properties of TC17 titanium alloy repaired by wire arc additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161473.	5.5	17
13	Grain morphology evolution mechanism of titanium alloy by the combination of pulsed arc and solution element during wire arc additive manufacturing. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161641.	5.5	4
14	Ultrasonic irradiation induced the microstructure refinement and texture evolution of Ti-6Al-4V TIG weld seam. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 20-27.	3.1	10
15	Microstructure and mechanical properties of Q235 steel welded joint in pulsed and un-pulsed ultrasonic assisted gas tungsten arc welding. <i>Journal of Materials Processing Technology</i> , 2020, 275, 116335.	6.3	25
16	Microstructure homogenization of 2A14 aluminum alloy weld seam by ultrasonic irradiation in metal inert gas welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 1085-1089.	3.0	3
17	Microstructure and mechanical properties of wire arc additive repairing Ti-5Al-2Sn-2Zr-4Mo-4Cr titanium alloy. <i>Materials Science and Technology</i> , 2020, 36, 1712-1719.	1.6	16
18	Microstructure evolution mechanism and mechanical properties of TC11-TC17 dual alloy after annealing treatment. <i>Journal of Alloys and Compounds</i> , 2020, 842, 155874.	5.5	20

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19	Microstructure Evolutions and Properties of Al-Cu Alloy Joint in the Pulsed Power Ultrasonic-Assisted GMAW. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1397-1406.	2.9	8
20	Optimization of shielding gas composition in high nitrogen stainless steel gas metal arc welding. <i>Journal of Manufacturing Processes</i> , 2020, 58, 19-29.	5.9	18
21	Grain refinement of additive manufactured Ti-6.5Al-3.5Mo-1.5Zr-0.3Si titanium alloy by the addition of La ₂ O ₃ . <i>Materials Letters</i> , 2020, 275, 128170.	2.6	31
22	Numerical analysis of arc physical properties in narrow gap TIG welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 5509-5517.	3.0	6
23	Effects of ultrasonic energy on short-circuiting transfer process in PU-GMA welding. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1225-1231.	4.7	5
24	Heat Source Characteristics of Ternary-Gas-Shielded Tandem Narrow-Gap GMAW. <i>Materials</i> , 2019, 12, 1397.	2.9	11
25	Analysis of droplet transfer, weld formation and microstructure in Al-Cu alloy bead welding joint with pulsed ultrasonic-GMAW method. <i>Journal of Materials Processing Technology</i> , 2019, 271, 144-151.	6.3	36
26	The effects of double groove type on the backing weld penetration in swing arc vertical-up MAG welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1133-1143.	2.5	10
27	Effects of post-deposition heat treatment on microstructures of GTA-additive manufactured 2219-Al. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 474-483.	3.1	14
28	Characteristics of Periodic Ultrasonic Assisted TIG Welding for 2219 Aluminum Alloys. <i>Materials</i> , 2019, 12, 4081.	2.9	11
29	Influence of pulsed ultrasound on short transfer behaviors in gas metal arc welding. <i>Journal of Materials Processing Technology</i> , 2019, 267, 376-383.	6.3	8
30	Arc character and droplet transfer of pulsed ultrasonic wave-assisted GMAW. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2219-2226.	3.0	19
31	Optimization of shielding gas composition in narrow gap GMA welding based on response surface methodology. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2405-2412.	3.0	10
32	Thermal processes, microstructure, and mechanical properties near weld toe in double-sided double gas tungsten arc backing welding joint of 10CrNi3MoV steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 677-684.	3.0	5
33	<i>In situ</i> observation and electron backscattered diffraction analysis of granular bainite in simulated heat-affected zone of high-strength low-alloy steel. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 158-163.	3.1	9
34	Feasibility analysis of pulsed ultrasonic for controlling the GMAW process and weld appearance. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 3619-3624.	3.0	9
35	Influence of helium content on a ternary-gas-shielded GMAW process. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018, 62, 973-984.	2.5	11
36	A new discovery of arc shape in pulsed ultrasonic wave assisted TIG welding. <i>Physics of Plasmas</i> , 2018, 25, 080703.	1.9	11

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37	Effects of shielding gas composition on arc behaviors and weld formation in narrow gap tandem GMAW. International Journal of Advanced Manufacturing Technology, 2017, 91, 3449-3456.	3.0	26
38	Grain fragmentation in ultrasonic-assisted TIG weld of pure aluminum. Ultrasonics Sonochemistry, 2017, 39, 403-413.	8.2	61
39	Thermal cycles and its effect on HAZ microstructure and mechanical properties of 10CrNi3MoV steel in double-sided double arc welding. International Journal of Advanced Manufacturing Technology, 2017, 93, 967-974.	3.0	6
40	Process Stability of Ultrasonic-Wave-Assisted Gas Metal Arc Welding. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4615-4621.	2.2	25
41	Effects of shielding gas composition on arc characteristics and droplet transfer in tandem narrow gap GMA welding. Science and Technology of Welding and Joining, 2017, 22, 446-453.	3.1	12
42	Effect of arc distance on HAZ thermal cycles and microstructural evolution 10CrNi3MoV steel. International Journal of Advanced Manufacturing Technology, 2017, 90, 3387-3395.	3.0	3
43	Study on Pores in Ultrasonic-Assisted TIG Weld of Aluminum Alloy. Metals, 2017, 7, 53.	2.3	31
44	Effect of acoustic field parameters on arc acoustic binding during ultrasonic wave-assisted arc welding. Ultrasonics Sonochemistry, 2016, 29, 476-484.	8.2	36
45	Strength Prediction of Aluminum-Stainless Steel-Pulsed TIG Welding-Brazing Joints with RSM and ANN. Acta Metallurgica Sinica (English Letters), 2014, 27, 1012-1017.	2.9	12
46	Combination Effects of Nocolok Flux with Ni Powder on Properties and Microstructures of Aluminum-Stainless Steel TIG Welding-Brazing Joint. Journal of Materials Engineering and Performance, 2013, 22, 3315-3323.	2.5	24
47	Nylon 66 Toughening Nylon 11 by in situ Polymerization. Polymers and Polymer Composites, 2011, 19, 69-74.	1.9	2
48	Microstructure evolution and mechanical behavior of additively manufacturing of Al-Si alloy by cold metal transfer with interlayer adding La ₂ O ₃ powder. Materials Technology, 0, , 1-13.	3.0	1
49	Effects of Trace Boron Addition and Different Arc Types on Microstructure and Mechanical Properties of TC11/TC17 Dual Alloy Fabricated by Wire Arc Additive Manufacturing. Advanced Engineering Materials, 0, , 2200126.	3.5	1