Huijun Li

List of Publications by Year in descending order

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212 papers	8,290 citations	76326 40 h-index	60623 81 g-index
217 all docs	217 docs citations	217 times ranked	5144 citing authors

#	Article	IF	Citations
1	Wire-feed additive manufacturing of metal components: technologies, developments and future interests. International Journal of Advanced Manufacturing Technology, 2015, 81, 465-481.	3.0	1,007
2	A review of the wire arc additive manufacturing of metals: properties, defects and quality improvement. Journal of Manufacturing Processes, 2018, 35, 127-139.	5.9	818
3	A multi-bead overlapping model for robotic wire and arc additive manufacturing (WAAM). Robotics and Computer-Integrated Manufacturing, 2015, 31, 101-110.	9.9	345
4	A tool-path generation strategy for wire and arc additive manufacturing. International Journal of Advanced Manufacturing Technology, 2014, 73, 173-183.	3.0	227
5	Edgeâ€Hydroxylated Boron Nitride Nanosheets as an Effective Additive to Improve the Thermal Response of Hydrogels. Advanced Materials, 2015, 27, 7196-7203.	21.0	227
6	A practical path planning methodology for wire and arc additive manufacturing of thin-walled structures. Robotics and Computer-Integrated Manufacturing, 2015, 34, 8-19.	9.9	223
7	Effects of heat accumulation on the arc characteristics and metal transfer behavior in Wire Arc Additive Manufacturing of Ti6Al4V. Journal of Materials Processing Technology, 2017, 250, 304-312.	6.3	217
8	Bead modelling and implementation of adaptive MAT path in wire and arc additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2016, 39, 32-42.	9.9	174
9	Towards an automated robotic arc-welding-based additive manufacturing system from CAD to finished part. CAD Computer Aided Design, 2016, 73, 66-75.	2.7	138
10	Fabricating Superior NiAl Bronze Components through Wire Arc Additive Manufacturing. Materials, 2016, 9, 652.	2.9	135
11	Phase Transformation Behavior and Microstructural Control of High-Cr Martensitic/Ferritic Heat-resistant Steels for Power and Nuclear Plants: A Review. Journal of Materials Science and Technology, 2015, 31, 235-242.	10.7	134
12	Automatic multi-direction slicing algorithms for wire based additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2016, 37, 139-150.	9.9	127
13	Rapid synthesis of Î±-Fe2O3/rGO nanocomposites by microwave autoclave as superior anodes for sodium-ion batteries. Journal of Power Sources, 2015, 280, 107-113.	7.8	123
14	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.	2.1	116
15	Adaptive path planning for wire-feed additive manufacturing using medial axis transformation. Journal of Cleaner Production, 2016, 133, 942-952.	9.3	113
16	Precipitation and hot deformation behavior of austenitic heat-resistant steels: A review. Journal of Materials Science and Technology, 2017, 33, 1448-1456.	10.7	101
17	Effects of heat accumulation on microstructure and mechanical properties of Ti6Al4V alloy deposited by wire arc additive manufacturing. Additive Manufacturing, 2018, 23, 151-160.	3.0	101
18	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.	5.6	97

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19	Arc Welding Processes for Additive Manufacturing: A Review. Transactions on Intelligent Welding Manufacturing, 2018, , 3-24.	0.3	87
20	Coarsening behavior of Î³â€² precipitates in the Î³'+Î³ area of a Ni3Al-based alloy. Journal of Alloys and Compounds, 2019, 771, 526-533.	5.5	86
21	Modelling and prediction of surface roughness in wire arc additive manufacturing using machine learning. Journal of Intelligent Manufacturing, 2022, 33, 1467-1482.	7.3	83
22	Fabrication of iron-rich Feâ€“Al intermetallics using the wire-arc additive manufacturing process. Additive Manufacturing, 2015, 7, 20-26.	3.0	82
23	The effect of postproduction heat treatment on Î³-TiAl alloys produced by the GTAW-based additive manufacturing process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 657, 86-95.	5.6	71
24	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.	3.0	70
25	Effect of annealing treatment on microstructure evolution and creep behavior of a multiphase Ni3Al-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 623-635.	5.6	68
26	In-depth study of the mechanical properties for Fe3Al 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.	5.6	65
27	An overview on TiFe intermetallic for solid-state hydrogen storage: microstructure, hydrogenation and fabrication processes. Critical Reviews in Solid State and Materials Sciences, 2020, 45, 410-427.	12.3	64
28	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.	2.1	61
29	Influences of deposition current and interpass temperature to the Fe3Al-based iron aluminide fabricated using wire-arc additive manufacturing process. International Journal of Advanced Manufacturing Technology, 2017, 88, 2009-2018.	3.0	60
30	Microstructure characteristic and mechanical property of transformable 9Cr-ODS steel fabricated by spark plasma sintering. Materials and Design, 2017, 132, 158-169.	7.0	59
31	Special Rolling Techniques for Improvement of Mechanical Properties of Ultrafineâ€Grained Metal Sheets: a Review. Advanced Engineering Materials, 2016, 18, 754-769.	3.5	57
32	Influence of annealing temperature on the structural and optical properties of Mgâ€“Al co-doped ZnO thin films prepared via solâ€“gel method. Ceramics International, 2014, 40, 5873-5880.	4.8	55
33	Enhanced mechanical properties of ARB-processed aluminum alloy 6061 sheets by subsequent asymmetric cryorolling and ageing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 256-261.	5.6	54
34	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.	3.0	53
35	A deformation mechanism of hard metal surrounded by soft metal during roll forming. Scientific Reports, 2014, 4, 5017.	3.3	51
36	Effect of hafnium addition on the microstructure and tensile properties of aluminum added high-Cr ODS steels. Journal of Alloys and Compounds, 2017, 702, 538-545.	5.5	50

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37	Mitigation of thermal distortion in wire arc additively manufactured Ti6Al4V part using active interpass cooling. Science and Technology of Welding and Joining, 2019, 24, 484-494.	3.1	47
38	High-temperature oxidation behavior of modified 4Al alumina-forming austenitic steel: Effect of cold rolling. Journal of Materials Science and Technology, 2021, 68, 91-102.	10.7	47
39	Characterization of In-Situ Alloyed and Additively Manufactured Titanium Aluminides. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2299-2303.	2.1	46
40	Effects of tantalum content on the microstructure and mechanical properties of low-carbon RAFM steel. Journal of Nuclear Materials, 2016, 479, 295-301.	2.7	41
41	EBSD analysis and mechanical properties of alumina-forming austenitic steel during hot deformation and annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 755, 106-115.	5.6	41
42	Polypyrrole-coated Î±-LiFeO2 nanocomposite with enhanced electrochemical properties for lithium-ion batteries. Electrochimica Acta, 2013, 108, 820-826.	5.2	40
43	Investigation into the viability of K-TIG for joining armour grade quenched and tempered steel. Journal of Manufacturing Processes, 2018, 32, 482-493.	5.9	40
44	Investigation of humping phenomenon for the multi-directional robotic wire and arc additive manufacturing. Robotics and Computer-Integrated Manufacturing, 2020, 63, 101916.	9.9	39
45	Application of Multidirectional Robotic Wire Arc Additive Manufacturing Process for the Fabrication of Complex Metallic Parts. IEEE Transactions on Industrial Informatics, 2020, 16, 454-464.	11.3	38
46	Effects of wire feed conditions on in situ alloying and additive layer manufacturing of titanium aluminides using gas tungsten arc welding. Journal of Materials Research, 2014, 29, 2066-2071.	2.6	37
47	Thermo-mechanical coupled finite element analysis of rolling contact fatigue and wear properties of a rail steel under different slip ratios. Tribology International, 2020, 141, 105943.	5.9	37
48	Effect of inter-critically reheating temperature on microstructure and properties of simulated inter-critically reheated coarse grained heat affected zone in X70 steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 605, 8-13.	5.6	36
49	Effects of Zr Addition on Strengthening Mechanisms of Al-Alloyed High-Cr ODS Steels. Materials, 2018, 11, 118.	2.9	35
50	Enhancement of tensile properties due to microstructure optimization in ODS steels by zirconium addition. Fusion Engineering and Design, 2017, 125, 402-406.	1.9	34
51	Effects of alloying elements on microstructure and mechanical properties of Coâ€“Niâ€“Alâ€“Ti superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 779, 139139.	5.6	34
52	Microstructure and tensile properties of a 14Cr ODS ferritic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 680, 347-350.	5.6	33
53	Tailoring the secondary phases and mechanical properties of ODS steel by heat treatment. Journal of Materials Science and Technology, 2019, 35, 1064-1073.	10.7	32
54	Improvement of High-Temperature Mechanical Properties of Low-Carbon RAFM Steel by MX Precipitates. Acta Metallurgica Sinica (English Letters), 2018, 31, 706-712.	2.9	31

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55	Hot deformation of alumina-forming austenitic steel: EBSD study and flow behavior. Journal of Materials Science, 2019, 54, 8760-8777.	3.7	31
56	Wire arc additive manufacturing of Ti6AL4V using active interpass cooling. Materials and Manufacturing Processes, 2020, 35, 845-851.	4.7	31
57	The effect of isothermal aging on creep behavior of modified 2.5Al alumina-forming austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 797, 140219.	5.6	30
58	Morphology and structure evolution of Y2O3 nanoparticles in ODS steel powders during mechanical alloying and annealing. Advanced Powder Technology, 2015, 26, 1578-1582.	4.1	29
59	Process planning for robotic wire and arc additive manufacturing. , 2015, , .		28
60	Model-free adaptive iterative learning control of melt pool width in wire arc additive manufacturing. International Journal of Advanced Manufacturing Technology, 2020, 110, 2131-2142.	3.0	28
61	Innovative analysis of Luders band behaviour in X80 pipeline steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 683, 123-128.	5.6	27
62	The heterogeneous microstructure of heat affect zone and its effect on creep resistance for friction stir joints on 9Crâ€“1.5â€Ẅ heat resistant steel. Scripta Materialia, 2019, 158, 6-10.	5.2	27
63	The effect of isothermal aging on microstructure and mechanical behavior of modified 2.5Al alumina-forming austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 748, 161-172.	5.6	27
64	Multi-criteria decision-making analysis of different non-traditional machining operations of Ti6Al4V. Soft Computing, 2019, 23, 5259-5272.	3.6	27
65	Microstructural Characterization of P91 Steel in the Virgin, Service Exposed and Postâ€Service Reâ€Normalized Conditions. Steel Research International, 2013, 84, 1302-1308.	1.8	26
66	Mechanism for the formation of Z-phase in 25Cr-20Ni-Nb-N austenitic stainless steel. Materials Letters, 2018, 233, 16-19.	2.6	26
67	Study of the kinetics of austenite grain growth by dynamic Ti-rich and Nb-rich carbonitride dissolution in HSLA steel: In-situ observation and modeling. Materials Characterization, 2020, 169, 110612.	4.4	26
68	Vision-based melt pool monitoring for wire-arc additive manufacturing using deep learning method. International Journal of Advanced Manufacturing Technology, 2022, 120, 551-562.	3.0	26
69	The Effect of Chemical Composition on Microstructure and Properties of Intercritically Reheated Coarse-Grained Heat-Affected Zone in X70 Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 229-235.	2.1	25
70	The Effect of Precipitate Evolution on Austenite Grain Growth in RAFM Steel. Materials, 2017, 10, 1017.	2.9	25
71	Thermal induced phase evolution of Feâ€“Fe3Ni 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.	5.5	25
72	Influence of Heat Input on Microstructure and Toughness Properties in Simulated CGHAZ of X80 Steel Manufactured Using High-Temperature Processing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 5467-5475.	2.2	24

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73	Precipitates and Particles Coarsening of 9Crâ€“1.7Wâ€“0.4Moâ€“Co Ferritic Heat-Resistant Steel after Isothermal Aging. Scientific Reports, 2017, 7, 5859.	3.3	24
74	Influence of white etching layer on rolling contact behavior at wheel-rail interface. Friction, 2020, 8, 1178-1196.	6.4	24
75	Thermal cycling of Fe3Al based iron aluminide during the wire-arc additive manufacturing process: An in-situ neutron diffraction study. Intermetallics, 2018, 92, 101-107.	3.9	23
76	In-situ neutron diffraction study on the high temperature thermal phase evolution of wire-arc additively manufactured Ni53Ti47 binary alloy. Journal of Alloys and Compounds, 2020, 843, 156020.	5.5	23
77	Precipitation behavior of type 347H heat-resistant austenitic steel during long-term high-temperature aging. Journal of Materials Research, 2015, 30, 3642-3652.	2.6	22
78	Neutron diffraction residual stress determinations in Fe3Al based iron aluminide components fabricated using wire-arc additive manufacturing (WAAM). Additive Manufacturing, 2019, 29, 100774.	3.0	22
79	From Single Grains to Texture. Advanced Engineering Materials, 2009, 11, 771-773.	3.5	21
80	Development of ferrite/bainite bands and study of bainite transformation retardation in HSLA steel during continuous cooling. Metals and Materials International, 2014, 20, 19-25.	3.4	21
81	Enhanced materials performance of Al/Ti/Al laminate sheets subjected to cryogenic roll bonding. Journal of Materials Research, 2017, 32, 3761-3768.	2.6	21
82	Cold Crack Monitoring and Localization in Welding Using Fiber Bragg Grating Sensors. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9228-9236.	4.7	21
83	Interfacial Reaction-Induced Defect Engineering: Enhanced Visible and Near-Infrared Absorption of Wide Band Gap Metal Oxides with Abundant Oxygen Vacancies. ACS Applied Materials & Interfaces, 2020, 12, 55417-55425.	8.0	21
84	Acicular ferrite formation during isothermal holding in HSLA steel. Journal of Materials Science, 2016, 51, 3555-3563.	3.7	20
85	Influences of postproduction heat treatment on Fe3Al-based iron aluminide fabricated using the wire-arc additive manufacturing process. International Journal of Advanced Manufacturing Technology, 2018, 97, 335-344.	3.0	20
86	Corrosion behavior of an Al added high-Cr ODS steel in supercritical water at 600â€Â°C. Applied Surface Science, 2019, 480, 969-978.	6.1	20
87	In-situ neutron diffraction characterization on the phase evolution of Î³-TiAl alloy during the wire-arc additive manufacturing process. Journal of Alloys and Compounds, 2019, 778, 280-287.	5.5	20
88	Effect of Cu addition on microstructure and properties of Feâ€“20Niâ€“14Cr alumina-forming austenitic steel. Intermetallics, 2021, 138, 107312.	3.9	20
89	Effects of Al addition on high temperature oxidation behavior of 16Cr ODS steel. Corrosion Science, 2022, 195, 110008.	6.6	20
90	Variation of pinning mechanism and enhancement of critical current density in MgB2 bulk containing self-generated coherent MgB4 impurity. Applied Physics Letters, 2013, 103, .	3.3	19

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91	Evolution of Al-containing phases in ODS steel by hot pressing and annealing. Powder Technology, 2017, 311, 449-455.	4.2	19
92	Precipitation Strengthening in Niâ€“Cu Alloys Fabricated Using Wire Arc Additive Manufacturing Technology. Metals, 2019, 9, 105.	2.3	19
93	Fabrication of FeNi intermetallic using the wire-arc additive manufacturing process: A feasibility and neutron diffraction phase characterization study. Journal of Manufacturing Processes, 2020, 57, 691-699.	5.9	19
94	Co-strengthening of dislocations and precipitates in alumina-forming austenitic steel with cold rolling followed by aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142181.	5.6	19
95	Hot deformation behavior of Tiâ€“22Alâ€“25Nb alloy by processing maps and kinetic analysis. Journal of Materials Research, 2016, 31, 1764-1772.	2.6	18
96	Study on microstructural evolution and constitutive modeling for hot deformation behavior of a low-carbon RAFM steel. Journal of Materials Research, 2017, 32, 1376-1385.	2.6	18
97	Formation of Fine B2/Î²Â+ÂO Structure and Enhancement of Hardness in the Aged Ti2AlNb-Based Alloys Prepared by Spark Plasma Sintering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2017, 48, 4365-4371.	2.2	18
98	Microstructures and tensile properties of an austenitic ODS heat resistance steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 767, 138419.	5.6	18
99	Improving the weld microstructure and material properties of K-TIG welded armour steel joint using filler material. International Journal of Advanced Manufacturing Technology, 2019, 100, 1931-1944.	3.0	18
100	Neutron diffraction residual stress determinations in titanium aluminide component fabricated using the twin wire-arc additive manufacturing. Journal of Manufacturing Processes, 2022, 74, 141-150.	5.9	18
101	Analysis of the Effect of Tungsten Inert Gas Welding Sequences on Residual Stress and Distortion of CFETR Vacuum Vessel Using Finite Element Simulations. Metals, 2018, 8, 912.	2.3	17
102	Evolution of thermally induced white etching layer at rail surface during multiple wheel/train passages. International Journal of Fatigue, 2022, 159, 106799.	5.7	17
103	A Fiber-Coupled Self-Mixing Laser Diode for the Measurement of Youngâ€™s Modulus. Sensors, 2016, 16, 928.	3.8	16
104	Microstructure evolution of accumulative roll bonding processed pure aluminum during cryorolling. Journal of Materials Research, 2016, 31, 797-805.	2.6	16
105	Hot Deformation Behavior and Microstructure Evolution of 14Cr ODS Steel. Materials, 2018, 11, 1044.	2.9	16
106	The well-distributed volumetric heat source model for numerical simulation of wire arc additive manufacturing process. Materials Today Communications, 2021, 27, 102430.	1.9	16
107	Enhancement of grain connectivity and critical current density in the ex-situ sintered MgB2 superconductors by doping minor Cu. Journal of Alloys and Compounds, 2017, 727, 1105-1109.	5.5	15
108	Comparative effect of Mn/Ti solute atoms and TiC/Ni3(Al,Ti) nano-particles on work hardening behaviour in Ni Cu alloys fabricated by wire arc additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 753, 262-275.	5.6	15

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109	Formation mechanisms of Yâ€“Alâ€“O complex oxides in 9Cr-ODS steels with Al addition. Journal of Materials Science, 2019, 54, 7893-7907.	3.7	15
110	A shape control strategy for wire arc additive manufacturing of thin-walled aluminium structures with sharp corners. Journal of Manufacturing Processes, 2021, 64, 253-264.	5.9	15
111	A defect detection system for wire arc additive manufacturing using incremental learning. Journal of Industrial Information Integration, 2022, 27, 100291.	6.4	15
112	High-temperature creep property deterioration of the alumina-forming austenitic steel: Effect of Ïƒ phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 846, 143126.	5.6	15
113	Observations on the Zirconium Hydride Precipitation and Distribution in Zircaloy-4. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 532-539.	2.1	14
114	Enhancement of superconductivity in FeNb_xSe_{0.95} by hole carrier doping. Journal of Materials Chemistry C, 2019, 7, 10019-10027.	5.5	14
115	Effect of Heat Input on Weld Formation and Tensile Properties in Keyhole Mode TIG Welding Process. Metals, 2019, 9, 1327.	2.3	14
116	Eutectic modification of Fe-enriched high-entropy alloys through minor addition of boron. Journal of Materials Science, 2020, 55, 14571-14587.	3.7	14
117	Towards intelligent monitoring system in wire arc additive manufacturing: a surface anomaly detector on a small dataset. International Journal of Advanced Manufacturing Technology, 2022, 120, 5225-5242.	3.0	14
118	Simultaneous Grain Growth and Grain Refinement in Bulk Ultrafine-Grained Copper under Tensile Deformation at Room Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 3785-3789.	2.2	13
119	Hot deformation behavior and microstructural evolution of Nbâ€“Vâ€“Ti microalloyed ultra-high strength steel. Journal of Materials Research, 2017, 32, 3777-3787.	2.6	13
120	Nanoporous Al sandwich foils using size effect of Al layer thickness during Cu/Al/Cu laminate rolling. Philosophical Magazine, 2018, 98, 1537-1549.	1.6	13
121	Fabrication and Characterization of a Magnetized Metal-Encapsulated FBG Sensor for Structural Health Monitoring. IEEE Sensors Journal, 2018, 18, 8739-8746.	4.7	13
122	Effect of Nb doping on the microstructure and superconducting properties of FeSe. Scripta Materialia, 2019, 169, 65-69.	5.2	13
123	Characterization of 14Cr ODS Steel Fabricated by Spark Plasma Sintering. Metals, 2019, 9, 200.	2.3	13
124	Microstructural characteristics and mechanical properties of friction-stir-welded modified 9Crâ€“1Mo steel. Journal of Materials Science, 2019, 54, 6632-6650.	3.7	13
125	Enhancing tensile properties of wrought Ni-based superalloy ATI 718Plus at elevated temperature via morphology control of Î· phase. Materials Characterization, 2020, 169, 110547.	4.4	13
126	Effect of post-weld heat treatment on microstructure and mechanical properties of deep penetration autogenous TIG-welded dissimilar joint between creep strength enhanced ferritic steel and austenitic stainless steel. International Journal of Advanced Manufacturing Technology, 2020, 108, 3207-3229.	3.0	13

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127	Effect of the post-production heat treatment on phase evolution in the Fe3Niâ€“FeNi functionally graded material: An in-situ neutron diffraction study. Intermetallics, 2021, 129, 107032.	3.9	13
128	A practical fabrication strategy for wire arc additive manufacturing of metallic parts with wire structures. International Journal of Advanced Manufacturing Technology, 2021, 115, 3197-3212.	3.0	13
129	Precipitation kinetics of M₂₃C₆ in T/P92 heat-resistant steel by applying soft-impingement correction. Journal of Materials Research, 2013, 28, 1529-1537.	2.6	12
130	Martensitic Phase Transformation and Deformation Behavior of Feâ€“Mnâ€“Câ€“Al Twinningâ€Induced Plasticity Steel during Highâ€Pressure Torsion. Advanced Engineering Materials, 2014, 16, 927-932.	3.5	12
131	Superstrength of nanograined steel with nanoscale intermetallic precipitates transformed from shock-compressed martensitic steel. Scientific Reports, 2016, 6, 36810.	3.3	12
132	Carbide dissolution and precipitation in cold-rolled type 347H austenitic heat-resistant steel. Materials Letters, 2017, 189, 70-73.	2.6	12
133	Microstructure and Mechanical Properties of 4Al Alumina-Forming Austenitic Steel after Cold-Rolling Deformation and Annealing. Materials, 2020, 13, 2767.	2.9	12
134	Influence of precipitates evolutions in Î´-ferrite and austenite matrix on mechanical properties of alumina-forming austenitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 847, 143321.	5.6	12
135	Microstructure evolution and martensitic transformation behaviors of 9Crâ€“1.8Wâ€“0.3Mo ferritic heat-resistant steel during quenching and partitioning treatment. Journal of Materials Research, 2013, 28, 2835-2843.	2.6	11
136	Effects of aging on shape memory and wear resistance of a Feâ€“Mnâ€“Si-based alloy. Journal of Materials Research, 2014, 29, 2809-2816.	2.6	11
137	Laves phase precipitation behavior in the simulated fine-grained heat-affected zone of creep strength enhanced ferritic steel P92 and its role in creep void nucleation and growth. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 231-239.	2.5	11
138	Effects of Static Recrystallization and Precipitation on Mechanical Properties of 00Cr12 Ferritic Stainless Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 1560-1567.	2.1	11
139	Tailoring the tempered microstructure of a novel martensitic heat resistant steel G115 through prior cold deformation and its effect on mechanical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 841, 143015.	5.6	11
140	Feasibility Study of Low Force Robotic Friction Stir Process and its Effect On Cavitation Erosion and Electrochemical Corrosion for Ni Al Bronze Alloys. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2291-2298.	2.1	10
141	Austenitizing Temperature Effects on the Martensitic Transformation, Microstructural Characteristics, and Mechanical Performance of Modified Ferritic Heat-Resistant Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 3525-3538.	2.2	10
142	The influence of post-weld tempering temperatures on microstructure and strength in the stir zone of friction stir welded reduced activation ferritic/martensitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141224.	5.6	10
143	Hot Deformation Behavior and Recrystallization Mechanism in an As-Cast CoNi-Based Superalloy. Metals and Materials International, 2022, 28, 1488-1498.	3.4	10
144	Modification and characterization of the Al concentration induced precipitate in the Fe3Al-based iron aluminide fabricated using the wire-arc additive manufacturing process. Materials Characterization, 2021, 178, 111270.	4.4	10

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145	Digital image correlation study on tensile properties of high strength quenched and tempered steel weld joints prepared by K-TIG and GMAW. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142033.	5.6	10
146	The formation of nano-layered grains and their enhanced superconducting transition temperature in Mg-doped FeSe0.9 bulks. Scientific Reports, 2015, 4, 6481.	3.3	9
147	Engineering Hierarchical Microstructures via Advanced Thermo-Mechanical Processing of a Modern HSLA Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 6337-6350.	2.2	9
148	The Study of the Directional Sensitivity of Fiber Bragg Gratings for Acoustic Emission Measurements. IEEE Sensors Journal, 2019, 19, 6771-6777.	4.7	9
149	Flow Characteristics of a Mediumâ€“High Carbon Mn-Si-Cr Alloyed Steel at High Temperatures. Journal of Materials Engineering and Performance, 2019, 28, 5104-5115.	2.5	9
150	Microstructure and Properties of Spot Welded Joints of Hot-Stamped Ultra-High Strength Steel Used for Automotive Body Structures. Metals, 2019, 9, 285.	2.3	9
151	Evolution of Y2O3 precipitates in ODS-316ÂL steel during reactive-inspired ball-milling and spark plasma sintering processes. Powder Technology, 2022, 398, 117072.	4.2	9
152	On the Effect of Heat Input and Interpass Temperature on the Performance of Inconel 625 Alloy Deposited Using Wire Arc Additive Manufacturingâ€“Cold Metal Transfer Process. Metals, 2022, 12, 46.	2.3	9
153	Formation mechanism and evolution of white etching layers on different rail grades. International Journal of Fatigue, 2022, 163, 107100.	5.7	9
154	Hydrogels: Edgeâ€Hydroxylated Boron Nitride Nanosheets as an Effective Additive to Improve the Thermal Response of Hydrogels (Adv. Mater. 44/2015). Advanced Materials, 2015, 27, 7247-7247.	21.0	8
155	Rapid hydrothermal synthesis of Li3VO4 with different favored facets. Journal of Solid State Electrochemistry, 2017, 21, 2547-2553.	2.5	8
156	Anisotropy and microstructural evolutions of X70 pipeline steel during tensile deformation. Journal of Materials Research, 2018, 33, 3512-3520.	2.6	8
157	Herringbone Structure and Significantly Enhanced Hardness in W-Modified Ti2AlNb Alloys by Spark Plasma Sintering. Metals and Materials International, 2019, 25, 1000-1007.	3.4	8
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