Xinjie Di

List of Publications by Year in descending order

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41	789	567144 15	552653 26
papers	citations	h-index	g-index

41	41	41	545
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of post-weld heat treatment temperature on the microstructure of Inconel 625 deposited metal. Journal of Alloys and Compounds, 2014, 593, 110-116.	2.8	116
2	Microstructural and mechanical performance of underwater wet welded S355 steel. Journal of Materials Processing Technology, 2016, 238, 333-340.	3.1	72
3	Effect of cooling rate on microstructure, inclusions and mechanical properties of weld metal in simulated local dry underwater welding. Materials and Design, 2015, 88, 505-513.	3.3	69
4	Effects of heat input on microstructure and fracture toughness of simulated coarse-grained heat affected zone for HSLA steels. Materials Characterization, 2019, 155, 109818.	1.9	63
5	Microstructural evolution and its influence on toughness in simulated inter-critical heat affected zone of large thickness bainitic steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 67-76.	2.6	40
6	Microstructural evolution, coarsening behavior of vanadium carbide and mechanical properties in the simulated heat-affected zone of modified medium manganese steel. Materials and Design, 2016, 96, 232-240.	3.3	34
7	Improvement of mechanical properties for low carbon ultra-high strength steel strengthened by Cu-rich multistructured precipitation via modification to bainite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 817, 141337.	2.6	26
8	Toughening mechanisms of low transformation temperature deposited metals with martensiteâ€“austenite dual phases. Journal of Materials Science, 2018, 53, 3720-3734.	1.7	24
9	Strength-toughness improvement of martensite-austenite dual phase deposited metals after austenite reversed treatment with short holding time. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 755, 57-65.	2.6	24
10	Simulation and analysis of temperature field for in-service multi-pass welding of a sleeve fillet weld. Computational Materials Science, 2013, 68, 198-205.	1.4	23
11	Microstructural evolution of transition zone of clad X70 with duplex stainless steel. Materials and Design, 2016, 95, 231-236.	3.3	22
12	Martensite transformation in the modified high Cr ferritic heat-resistant steel during continuous cooling. Journal of Materials Research, 2012, 27, 2779-2789.	1.2	20
13	Effect of pulse current on mechanical properties and dendritic morphology of modified medium manganese steel welds metal. Materials & Design, 2015, 66, 169-175.	5.1	19
14	Effect of cyclic plastic deformation on microstructure and mechanical properties of weld metals used for reel-lay pipeline steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 737, 77-84.	2.6	19
15	Influence of austenitization temperature on phase transformation features of modified high Cr ferritic heat-resistant steel. Nuclear Engineering and Design, 2013, 256, 148-152.	0.8	18
16	Toughening mechanism of inter-critical heat-affected zone in a 690â€MPa grade rack plate steel. Materials Characterization, 2018, 144, 631-640.	1.9	17
17	The isochronal Î´Âât'ÂÎ³ transformation of high Cr ferritic heat-resistant steel during cooling. Journal of Materials Science, 2011, 46, 6910-6915.	1.7	15
18	Mechanical properties of low-transformation-temperature weld metals after low-temperature postweld heat treatment. Science and Technology of Welding and Joining, 2019, 24, 112-120.	1.5	15

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19	Enhanced toughness of Feâ€“12Crâ€“5.5Niâ€“Mo-deposited metals through formation of fine reversed austenite. Journal of Materials Science, 2018, 53, 15679-15693.	1.7	14
20	EBSD analysis of microstructures and mechanical properties of softened zones in X60 reeled-pipeline welded joint after cyclic plastic deformation. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 1213-1225.	1.3	12
21	Formation mechanism of CuNiAl-rich multi-structured precipitation and its effect on mechanical properties for ultra-high strength low carbon steel obtained via direct quenching and tempering process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142567.	2.6	12
22	A bainite transformation kinetics model and its application to X70 pipeline steel. Journal of Materials Science, 2015, 50, 5079-5090.	1.7	11
23	Effect of cyclic plastic deformation on hydrogen diffusion behavior and embrittlement susceptibility of reeling-pipeline steel weldments. International Journal of Hydrogen Energy, 2021, 46, 30158-30172.	3.8	11
24	Arc Characteristic and Metal Transfer of Pulse Current Horizontal Flux-Cored Arc Welding. Transactions of Tianjin University, 2017, 23, 101-109.	3.3	8
25	Effect of restraint stress on martensite transformation in low transformation temperature weld metal. Journal of Materials Science, 2020, 55, 2202-2214.	1.7	8
26	The mutual effect of hydrogen and cyclic plastic deformation on ductility degradation of X65 reeled-pipeline welded joint. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 791, 139739.	2.6	8
27	Effect of austenite transformation degree on microstructure and fracture toughness of high-strain pipeline steel. Journal of Materials Science, 2021, 56, 13827-13840.	1.7	8
28	Additive manufacturing of Inconel625-HSLA Steel functionally graded material by wire arc additive manufacturing. Metallurgical Research and Technology, 2021, 118, 502.	0.4	7
29	Solidification behaviour and microstructure of welding transition zone using low-transformation-temperature welding consumables. Science and Technology of Welding and Joining, 2019, 24, 148-155.	1.5	6
30	Improvement in corrosion resistance of wire arc additive manufactured Inconel 625 alloy through heat treatment. Materials Research Express, 2021, 8, 066529.	0.8	6
31	Effect of dilution on fatigue behaviour of welded joints produced by low-transformation-temperature fillers. Science and Technology of Welding and Joining, 2019, 24, 601-608.	1.5	5
32	The Influence of Ni on Bainite/Martensite Transformation and Mechanical Properties of Deposited Metals Obtained from Metal-Cored Wire. Metals, 2021, 11, 1971.	1.0	5
33	Effect of Electromagnetic Stirring Frequency on Inconel625-High Strength Low Alloy Steel Functionally Graded Material Fabricated by Wire Arc Additive Manufacturing. Journal of Materials Engineering and Performance, 2022, 31, 9703-9713.	1.2	5
34	Transition Strategy Optimization of Inconel625-HSLA Steel Functionally Graded Material Fabricated by Wire Arc Additive Manufacturing. Metals and Materials International, 2023, 29, 767-776.	1.8	5
35	Size effect on residual stress in low transformation temperature welded joints. Marine Structures, 2021, 78, 103001.	1.6	4
36	Transformation temperatures, mechanical properties and residual stress of two low-transformation-temperature weld metals. Science and Technology of Welding and Joining, 2021, 26, 144-152.	1.5	4

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37	Refinement mechanism of nanoscale Cu-rich precipitates by Mo addition and its effect on strength-toughness of Cu-bearing low carbon high strength steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 143469.	2.6	4
38	Characterization of nanoscale precipitates and enhanced mechanical properties of high strength weld metals containing Cu additions after PWHT. Metallurgical Research and Technology, 2022, 119, 119.	0.4	3
39	Effect of Microstructural Evolution on the Mechanical Properties of Intercritical Heatâ€Affected Zone of Quenchedâ€andâ€Tempered Ultrahighâ€Strength Steel. Steel Research International, 2022, 93, .	1.0	3
40	Deformation Behavior and Microstructural Evolution of Reeled Pipeline Steels during Cyclic Plastic Deformation. Journal of Materials Engineering and Performance, 2019, 28, 6449-6457.	1.2	2
41	Combined effects of welding heat input and peak temperature on precipitation and mechanical properties of the HAZ for modified austenitic medium manganese steels. Materials Research Express, 0, , .	0.8	2