Kjell Hurtig

List of Publications by Year
in descending order

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26	558	759233 12	642732 23
papers	citations	h-index	g-index

26	26	26	422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nitrogen loss and effects on microstructure in multipass TIG welding of a super duplex stainless steel. Materials and Design, 2016, 98, 88-97.	7.0	105
2	Wire-arc additive manufacturing of a duplex stainless steel: thermal cycle analysis and microstructure characterization. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 975-987.	2.5	69
3	Influence of multiple thermal cycles on microstructure of heat-affected zone in TIG-welded super duplex stainless steel. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 233-245.	2.5	45
4	Effect of Direct Energy Deposition Process Parameters on Single-Track Deposits of Alloy 718. Metals, 2020, 10, 96.	2.3	43
5	Effect of shielding gas on welding performance and properties of duplex and superduplex stainless steel welds. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 239-249.	2.5	37
6	Effect of multipass TIG welding on the corrosion resistance and microstructure of a super duplex stainless steel. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 405-415.	1.5	29
7	Bead by bead study of a multipass shielded metal arc-welded super-duplex stainless steel. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 283-299.	2.5	26
8	Ferrite content measurement in super duplex stainless steel welds. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 551-563.	2.5	25
9	A novel arc heat treatment technique for producing graded microstructures through controlled temperature gradients. Materials and Design, 2017, 121, 11-23.	7.0	19
10	A New Approach to the Study of Multi-Pass Weldsâ€“Microstructure and Properties of Welded 20-mm-Thick Superduplex Stainless Steel. Applied Sciences (Switzerland), 2019, 9, 1050.	2.5	18
11	Promoting austenite formation in laser welding of duplex stainless steelâ€”impact of shielding gas and laser reheating. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 499-511.	2.5	18
12	Influence of Heat Treatments on Heat Affected Zone Cracking of Gas Tungsten Arc Welded Additive Manufactured Alloy 718. Metals, 2019, 9, 881.	2.3	14
13	A critical analysis of weld heat input measurement through a water-cooled stationary anode calorimeter. Science and Technology of Welding and Joining, 2016, 21, 339-350.	3.1	11
14	Welding of Large Thickness Super Duplex Stainless Steel: Microstructure and Properties. Metals, 2021, 11, 1184.	2.3	11
15	Towards a Map of Solidification Cracking Risk in Laser Welding of Austenitic Stainless Steels. Physics Procedia, 2015, 78, 230-239.	1.2	10
16	A contribution to the study of negative polarity in GMA welding. International Journal of Advanced Manufacturing Technology, 2018, 95, 2543-2553.	3.0	10
17	Investigation on effect of welding parameters on solidification cracking of austenitic stainless steel 314. Procedia Manufacturing, 2018, 25, 351-357.	1.9	9
18	A Modified Johnson-Cook Model for Ferritic-Pearlitic Steel in Dynamic Strain Aging Regime. Metals, 2019, 9, 528.	2.3	9

#	Article	IF	Citations
19	A Methodology to Parameterize Wire + Arc Additive Manufacturing: A Case Study for Wall Quality Analysis. Journal of Manufacturing and Materials Processing, 2020, 4, 14.	2.2	9
20	Effect of welding position on properties of duplex and superduplex stainless steel circumferential welds. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 693-703.	2.5	8
21	Effect of HFMI treatment procedure on weld toe geometry and fatigue properties of high strength steel welds. Procedia Structural Integrity, 2016, 2, 3483-3490.	0.8	8
22	A physical simulation technique for cleaner and more sustainable research in additive manufacturing. Journal of Cleaner Production, 2021, 285, 124910.	9.3	7
23	Influence of laser-directed energy deposition process parameters and thermal post-treatments on Nb-rich secondary phases in single-track Alloy 718 specimens. Journal of Laser Applications, 2021, 33, 022024.	1.7	7
24	Precipitation kinetics of Cu-rich particles in super duplex stainless steels. Journal of Materials Research and Technology, 2021, 15, 3951-3964.	5.8	7
25	Measurement of the thermal cycle in the base metal heat affected zone of cast ATIÂ®718PlusTM during manual multi-pass TIG welding. Procedia Manufacturing, 2018, 25, 443-449.	1.9	2
26	Effect of process parameters and heat treatments on delta-phase precipitation in directed energy deposited alloy 718. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 863-877.	2.5	2