

Odd M Akselsen

List of Publications by Year in descending order

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47
papers

1,105
citations

430442

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414034

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48
all docs

48
docs citations

48
times ranked

744
citing authors

#	ARTICLE	IF	CITATIONS
1	Wire arc additive manufacturing of AA5183 with TiC nanoparticles. International Journal of Advanced Manufacturing Technology, 2022, 119, 1047-1058.	1.5	8
2	Root formation and metallurgical challenges in laser beam and laser-arc hybrid welding of thick structural steel. International Journal of Advanced Manufacturing Technology, 2021, 116, 561-578.	1.5	4
3	Laser Beam and Laser-Arc Hybrid Welding of Aluminium Alloys. Metals, 2021, 11, 1150.	1.0	20
4	Review of Aluminum Alloy Development for Wire Arc Additive Manufacturing. Materials, 2021, 14, 5370.	1.3	42
5	A Review on Laser-Assisted Joining of Aluminium Alloys to Other Metals. Metals, 2021, 11, 1680.	1.0	16
6	Root formation and mechanical properties in laser keyhole welding of 15 mm thick HSLA steel. IOP Conference Series: Materials Science and Engineering, 2021, 1135, 012011.	0.3	2
7	Effect of Sigma Phase in Wire Arc Additive Manufacturing of Superduplex Stainless Steel. Metals, 2021, 11, 2045.	1.0	3
8	Development of Al-TiC Wire Feedstock for Additive Manufacturing by Metal Screw Extrusion. Metals, 2020, 10, 1485.	1.0	9
9	Wire and Arc Additive Manufacturing with TiC-Nanoparticle Reinforced AA5183 Alloy. MATEC Web of Conferences, 2020, 326, 07002.	0.1	3
10	Comparative study of eutectic Al-Si alloys manufactured by WAAM and casting. International Journal of Advanced Manufacturing Technology, 2020, 110, 935-947.	1.5	29
11	Filler metal distribution and processing stability in laser-arc hybrid welding of thick HSLA steel. Journal of Manufacturing Processes, 2020, 54, 228-239.	2.8	24
12	Laser-arc hybrid welding of 12- and 15-mm thick structural steel. International Journal of Advanced Manufacturing Technology, 2020, 107, 2649-2669.	1.5	21
13	Dry hyperbaric welding of HSLA steel up to 35 bar ambient pressure with CMT arc mode. International Journal of Advanced Manufacturing Technology, 2019, 105, 2659-2676.	1.5	6
14	Metallurgical Aspects in the Welding of Clad Pipelines – A Global Outlook. Applied Sciences (Switzerland), 2019, 9, 3118.	1.3	15
15	Porosity and solidification cracking in welded 45 mm thick steel by fiber laser-MAG process. Procedia Manufacturing, 2019, 36, 101-111.	1.9	7
16	Application of LBW and LAHW for fillet welds of 12 and 15 mm structural steel. Procedia Manufacturing, 2019, 36, 121-130.	1.9	5
17	Application of laser-arc hybrid welding of steel for low-temperature service. International Journal of Advanced Manufacturing Technology, 2019, 102, 2601-2613.	1.5	19
18	Deep penetration fiber laser-arc hybrid welding of thick HSLA steel. Journal of Materials Processing Technology, 2018, 256, 216-228.	3.1	58

#	ARTICLE	IF	CITATIONS
19	Laser-arc hybrid welding of thick HSLA steel. Journal of Materials Processing Technology, 2018, 259, 75-87.	3.1	48
20	Process stability during fiber laser-arc hybrid welding of thick steel plates. Optics and Lasers in Engineering, 2018, 102, 34-44.	2.0	49
21	Design Under Arctic Conditions: A Summary of the Arctic Materials Project Guideline. , 2018, , .		0
22	The penetration efficiency of thick plate laser-arc hybrid welding. International Journal of Advanced Manufacturing Technology, 2018, 97, 2907-2919.	1.5	22
23	Additive manufacture of superduplex stainless steel using WAAM. MATEC Web of Conferences, 2018, 188, 03014.	0.1	39
24	A special notched tensile specimen to determine the flow stress-strain curve of hardening materials without applying the Bridgman correction. Engineering Fracture Mechanics, 2017, 179, 225-239.	2.0	22
25	Hybrid Welding of 45 mm High Strength Steel Sections. Physics Procedia, 2017, 89, 11-22.	1.2	8
26	Hydrogen Embrittlement Susceptibility of Clad Steel Pipes. , 2017, , .		0
27	Fiber laser-MIG hybrid welding of 5 mm 5083 aluminum alloy. Journal of Materials Processing Technology, 2016, 233, 107-114.	3.1	109
28	Hybrid Welding Possibilities of Thick Sections for Arctic Applications. Physics Procedia, 2015, 78, 74-83.	1.2	15
29	Geometrical aspects of hot cracks in laser-arc hybrid welding. Journal of Laser Applications, 2014, 26, .	0.8	18
30	Cleavage Fracture Initiation at Mn-A Constituents in Intercritically Coarse-Grained Heat-Affected Zone of a HSLA Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 384-394.	1.1	81
31	3D cohesive modelling of hydrogen embrittlement in the heat affected zone of an X70 pipeline steel - Part II. International Journal of Hydrogen Energy, 2014, 39, 3528-3541.	3.8	57
32	Local mechanical properties of intercritically reheated coarse grained heat affected zone in low alloy steel. Materials & Design, 2014, 59, 135-140.	5.1	22
33	Analytical Modeling of Weld Bead Shape in Dry Hyperbaric GMAW Using Ar-He Chamber Gas Mixtures. Journal of Materials Engineering and Performance, 2013, 22, 673-680.	1.2	9
34	3D cohesive modelling of hydrogen embrittlement in the heat affected zone of an X70 pipeline steel. International Journal of Hydrogen Energy, 2013, 38, 7539-7549.	3.8	53
35	Increased Robustness in Hyperbaric Welding of Subsea Pipelines by Introducing Copper Backing. , 2012, , .		0
36	Numerical Analysis of Residual Stresses in Hyperbaric Welding. , 2012, , .		0

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37	Quantitative Relation Between Acoustic Emission Signal Amplitude and Arrested Cleavage Microcrack Size. International Journal of Fracture, 2012, 177, 73-80.	1.1	4
38	Hydrogen diffusion and hydrogen influenced critical stress intensity in an API X70 pipeline steel welded joint – Experiments and FE simulations. International Journal of Hydrogen Energy, 2012, 37, 11474-11486.	3.8	124
39	Determination of welding heat source parameters from actual bead shape. Computational Materials Science, 2012, 54, 176-182.	1.4	69
40	Effect of hyperbaric gas composition on mechanical properties of the weld metal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 465-472.	2.6	3
41	Effect of Hyperbaric Chamber Gas on Transformation Texture of the API-X70 Pipeline Weld Metal. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3162-3178.	1.1	7
42	Statistical analysis of the arc behavior in dry hyperbaric GMA welding from 1 to 250bar. Journal of Materials Processing Technology, 2012, 212, 211-219.	3.1	16
43	FE Simulation of Cold Cracking Susceptibility in X70 Structural Steel Welded Joints. , 2011, , .		0
44	The Effects on Process Performance of Reducing the Pressure From 36 to 1Bar in Hyperbaric MIG Welding. , 2009, , .		2
45	Microwave brazing of NiTi shape memory alloy with Ag–Ti and Ag–Cu–Ti alloys. Scripta Materialia, 2008, 58, 779-781.	2.6	36
46	Hydrogen Assisted Cracking in Welding of 13% Cr Supermartensitic Stainless Steels. , 2003, , 177.		1
47	High Heat Input Welding of 12Cr-6Ni-2.5Mo Supermartensitic Stainless Steel. , 2003, , .		0