

# Odd M Akselsen

## List of Publications by Year in descending order

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47  
papers

1,105  
citations

430442

18  
h-index

414034

32  
g-index

48  
all docs

48  
docs citations

48  
times ranked

744  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen diffusion and hydrogen influenced critical stress intensity in an API X70 pipeline steel welded joint – Experiments and FE simulations. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 11474-11486.	3.8	124
2	Fiber laser-MIG hybrid welding of 5 mm 5083 aluminum alloy. <i>Journal of Materials Processing Technology</i> , 2016, 233, 107-114.	3.1	109
3	Cleavage Fracture Initiation at $\text{Mn}$ Constituents in Intercritically Coarse-Grained Heat-Affected Zone of a HSLA Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 384-394.	1.1	81
4	Determination of welding heat source parameters from actual bead shape. <i>Computational Materials Science</i> , 2012, 54, 176-182.	1.4	69
5	Deep penetration fiber laser-arc hybrid welding of thick HSLA steel. <i>Journal of Materials Processing Technology</i> , 2018, 256, 216-228.	3.1	58
6	3D cohesive modelling of hydrogen embrittlement in the heat affected zone of an X70 pipeline steel – Part II. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 3528-3541.	3.8	57
7	3D cohesive modelling of hydrogen embrittlement in the heat affected zone of an X70 pipeline steel. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7539-7549.	3.8	53
8	Process stability during fiber laser-arc hybrid welding of thick steel plates. <i>Optics and Lasers in Engineering</i> , 2018, 102, 34-44.	2.0	49
9	Laser-arc hybrid welding of thick HSLA steel. <i>Journal of Materials Processing Technology</i> , 2018, 259, 75-87.	3.1	48
10	Review of Aluminum Alloy Development for Wire Arc Additive Manufacturing. <i>Materials</i> , 2021, 14, 5370.	1.3	42
11	Additive manufacture of superduplex stainless steel using WAAM. <i>MATEC Web of Conferences</i> , 2018, 188, 03014.	0.1	39
12	Microwave brazing of NiTi shape memory alloy with $\text{Ag-Ti}$ and $\text{Ag-Cu-Ti}$ alloys. <i>Scripta Materialia</i> , 2008, 58, 779-781.	2.6	36
13	Comparative study of eutectic Al-Si alloys manufactured by WAAM and casting. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 935-947.	1.5	29
14	Filler metal distribution and processing stability in laser-arc hybrid welding of thick HSLA steel. <i>Journal of Manufacturing Processes</i> , 2020, 54, 228-239.	2.8	24
15	Local mechanical properties of intercritically reheated coarse grained heat affected zone in low alloy steel. <i>Materials &amp; Design</i> , 2014, 59, 135-140.	5.1	22
16	A special notched tensile specimen to determine the flow stress-strain curve of hardening materials without applying the Bridgman correction. <i>Engineering Fracture Mechanics</i> , 2017, 179, 225-239.	2.0	22
17	The penetration efficiency of thick plate laser-arc hybrid welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 97, 2907-2919.	1.5	22
18	Laser-arc hybrid welding of 12- and 15-mm thick structural steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2649-2669.	1.5	21

#	ARTICLE	IF	CITATIONS
19	Laser Beam and Laser-Arc Hybrid Welding of Aluminium Alloys. <i>Metals</i> , 2021, 11, 1150.	1.0	20
20	Application of laser-arc hybrid welding of steel for low-temperature service. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 2601-2613.	1.5	19
21	Geometrical aspects of hot cracks in laser-arc hybrid welding. <i>Journal of Laser Applications</i> , 2014, 26, .	0.8	18
22	Statistical analysis of the arc behavior in dry hyperbaric GMA welding from 1 to 250bar. <i>Journal of Materials Processing Technology</i> , 2012, 212, 211-219.	3.1	16
23	A Review on Laser-Assisted Joining of Aluminium Alloys to Other Metals. <i>Metals</i> , 2021, 11, 1680.	1.0	16
24	Hybrid Welding Possibilities of Thick Sections for Arctic Applications. <i>Physics Procedia</i> , 2015, 78, 74-83.	1.2	15
25	Metallurgical Aspects in the Welding of Clad Pipelines – A Global Outlook. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3118.	1.3	15
26	Analytical Modeling of Weld Bead Shape in Dry Hyperbaric GMAW Using Ar-He Chamber Gas Mixtures. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 673-680.	1.2	9
27	Development of Al-TiC Wire Feedstock for Additive Manufacturing by Metal Screw Extrusion. <i>Metals</i> , 2020, 10, 1485.	1.0	9
28	Hybrid Welding of 45 mm High Strength Steel Sections. <i>Physics Procedia</i> , 2017, 89, 11-22.	1.2	8
29	Wire arc additive manufacturing of AA5183 with TiC nanoparticles. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 1047-1058.	1.5	8
30	Effect of Hyperbaric Chamber Gas on Transformation Texture of the API-X70 Pipeline Weld Metal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 3162-3178.	1.1	7
31	Porosity and solidification cracking in welded 45 mm thick steel by fiber laser-MAG process. <i>Procedia Manufacturing</i> , 2019, 36, 101-111.	1.9	7
32	Dry hyperbaric welding of HSLA steel up to 35 bar ambient pressure with CMT arc mode. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2659-2676.	1.5	6
33	Application of LBW and LAHW for fillet welds of 12 and 15 mm structural steel. <i>Procedia Manufacturing</i> , 2019, 36, 121-130.	1.9	5
34	Quantitative Relation Between Acoustic Emission Signal Amplitude and Arrested Cleavage Microcrack Size. <i>International Journal of Fracture</i> , 2012, 177, 73-80.	1.1	4
35	Root formation and metallurgical challenges in laser beam and laser-arc hybrid welding of thick structural steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 561-578.	1.5	4
36	Effect of hyperbaric gas composition on mechanical properties of the weld metal. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 465-472.	2.6	3

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37	Wire and Arc Additive Manufacturing with TiC-Nanoparticle Reinforced AA5183 Alloy. MATEC Web of Conferences, 2020, 326, 07002.	0.1	3
38	Effect of Sigma Phase in Wire Arc Additive Manufacturing of Superduplex Stainless Steel. Metals, 2021, 11, 2045.	1.0	3
39	The Effects on Process Performance of Reducing the Pressure From 36 to 1Bar in Hyperbaric MIG Welding. , 2009, , .		2
40	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
41	Hydrogen Assisted Cracking in Welding of 13% Cr Supermartensitic Stainless Steels. , 2003, , 177.		1
42	Increased Robustness in Hyperbaric Welding of Subsea Pipelines by Introducing Copper Backing. , 2012, , .		0
43	Numerical Analysis of Residual Stresses in Hyperbaric Welding. , 2012, , .		0
44	Design Under Arctic Conditions: A Summary of the Arctic Materials Project Guideline. , 2018, , .		0
45	High Heat Input Welding of 12Cr-6Ni-2.5Mo Supermartensitic Stainless Steel. , 2003, , .		0
46	FE Simulation of Cold Cracking Susceptibility in X70 Structural Steel Welded Joints. , 2011, , .		0
47	Hydrogen Embrittlement Susceptibility of Clad Steel Pipes. , 2017, , .		0