Jonas Hensel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3278280/publications.pdf

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41	773	623734	552781
papers	citations	14 h-index	26 g-index

45	45	45	495
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wire and Arc Additive Manufacturing of Aluminum Components. Metals, 2019, 9, 608.	2.3	90
2	The effect of the local and global weld geometry as well as material defects on crack initiation and fatigue strength. Engineering Fracture Mechanics, 2018, 198, 103-122.	4.3	85
3	Design and Parameter Identification of Wire and Arc Additively Manufactured (WAAM) Steel Bars for Use in Construction. Metals, 2019, 9, 725.	2.3	81
4	Welding residual stresses as needed for the prediction of fatigue crack propagation and fatigue strength. Engineering Fracture Mechanics, 2018, 198, 123-141.	4.3	63
5	Residual stress in wire and arc additively manufactured aluminum components. Journal of Manufacturing Processes, 2021, 65, 97-111.	5.9	49
6	Solid-state phase transformation and strain hardening on the residual stresses in S355 steel weldments. Journal of Materials Processing Technology, 2019, 265, 173-184.	6.3	45
7	Geometry and Distortion Prediction of Multiple Layers for Wire Arc Additive Manufacturing with Artificial Neural Networks. Applied Sciences (Switzerland), 2021, 11, 4694.	2.5	27
8	Effects of residual stresses and compressive mean stresses on the fatigue strength of longitudinal fillet-welded gussets. Welding in the World, Le Soudage Dans Le Monde, 2016, 60, 267-281.	2.5	26
9	Effects of Thermal Cycling on Wire and Arc Additive Manufacturing of Al-5356 Components. Metals, 2020, 10, 952.	2.3	26
10	Comparative study of deposition patterns for DED-Arc additive manufacturing of Al-4046. Materials and Design, 2021, 210, 110122.	7.0	26
11	Fatigue Strength Enhancement of Butt Welds by Means of Shot Peening and Clean Blasting. Metals, 2019, 9, 744.	2.3	25
12	Mechanical properties of wire and arc additively manufactured high-strength steel structures. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 395-407.	2.5	25
13	On the effects of austenite phase transformation on welding residual stresses in non-load carrying longitudinal welds. Welding in the World, Le Soudage Dans Le Monde, 2015, 59, 179-190.	2.5	20
14	Influence of Restraint Conditions on Welding Residual Stresses in H-Type Cracking Test Specimens. Materials, 2019, 12, 2700.	2.9	16
15	Fatigue and Fracture of Weldments. , 2019, , .		16
16	Electron beam welding of 2205 duplex stainless steel using pre-placed nickel-based filler material. International Journal of Pressure Vessels and Piping, 2021, 191, 104354.	2.6	15
17	Investigation on fatigue strength of cut edges produced by various cutting methods for high-strength steels. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 545-561.	2.5	14
18	Engineering model for the quantitative consideration of residual stresses in fatigue design of welded components. Welding in the World, Le Soudage Dans Le Monde, 2017, 61, 997-1002.	2.5	13

#	Article	IF	Citations
19	Mean stress correction in fatigue design under consideration of welding residual stress. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 535-544.	2.5	12
20	Development of a technology type factor for jacket structures for offshore wind turbines in Rhode Island. Journal of Renewable and Sustainable Energy, 2012, 4, 063120.	2.0	11
21	Application of fracture mechanics to weld fatigue. International Journal of Fatigue, 2020, 139, 105801.	5.7	10
22	Experimental Investigation of Fatigue Crack Propagation in Residual Stress Fields. Procedia Engineering, 2015, 133, 244-254.	1.2	7
23	Laser welding of 16MnCr5 butt welds with gap: resulting weld quality and fatigue strength assessment. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 1867-1881.	2.5	7
24	Effects of Reduced Ambient Pressure and Beam Oscillation on Gap Bridging Ability during Solid-State Laser Beam Welding. Journal of Manufacturing and Materials Processing, 2020, 4, 40.	2.2	6
25	Metallurgical investigation of electron beam welded duplex stainless steel X2CrNiMoN22-5-3 with plasma nitrided weld edge surfaces. Materialpruefung/Materials Testing, 2018, 60, 577-582.	2.2	6
26	Surface quality parameters for structural components manufactured by DED-arc processes. Materials and Design, 2022, 215, 110438.	7.0	6
27	Fatigue strength of thermal cut edgesâ€"influence of ISO 9013 quality groups. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 349-363.	2.5	5
28	Increased accuracy of calculated fatigue resistance of welds through consideration of the statistical size effect within the notch stress concept. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 1725-1736.	2.5	5
29	Linear Elastic FE-Analysis of Porous, Laser Welded, Heat Treatable, Aluminium High Pressure Die Castings Based on X-Ray Computed Tomography Data. Materials, 2020, 13, 1420.	2.9	5
30	Influence of Heat Control on Properties and Residual Stresses of Additive-Welded High-Strength Steel Components. Metals, 2022, 12, 951.	2.3	5
31	Investigations on the fatigue strength of beam-welded butt joints taking the weld quality into account. Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1303-1313.	2.5	4
32	Capability of martensitic low transformation temperature welding consumables for increasing the fatigue strength of high strength steel joints. Materialpruefung/Materials Testing, 2020, 62, 891-900.	2.2	3
33	Electron beam welding of rectangular copper wires applied in electrical drives. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 2077-2091.	2.5	3
34	Residual Stressâ€"Based Fatigue Design of Welded Structures. Materials Performance and Characterization, 2018, 7, 630-642.	0.3	3
35	Effects of Residual Stresses on the Fatigue Performance of Welded Steels with Longitudinal Stiffeners. Materials Science Forum, 2013, 768-769, 636-643.	0.3	2
36	On Welding Residual Stresses Near Fatigue Crack Tips. Advanced Materials Research, 0, 996, 801-807.	0.3	2

#	Article	IF	Citations
37	An enhancement of the current design concepts for the improved consideration of residual stresses in fatigue-loaded welds. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 643-651.	2.5	2
38	Influence of competing notches on the fatigue strength of cut plate edges. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 1791-1803.	2.5	2
39	Residual Stresses and Fatigue Behavior of High Strength Structural Steels with Fillet Welded Longitudinal Stiffeners. HTM - Journal of Heat Treatment and Materials, 2014, 69, 14-23.	0.2	2
40	Untersuchungen zur verlÃsslichen Messung der HÃrte nach dem UCI â€“ Verfahren (Ultrasonic Contact) Tj ETQq0 0 0 rgBT /Overlock 10	2.2	1
41	In-depth residual stress analysis considering manufacturing process and cyclic loading of bolts. Engineering Structures, 2022, 267, 114652.	5.3	1