

# Jonas Hensel

## List of Publications by Year in descending order

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

Version: 2024-02-01

41  
papers

773  
citations

623734

14  
h-index

552781

26  
g-index

45  
all docs

45  
docs citations

45  
times ranked

495  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface quality parameters for structural components manufactured by DED-arc processes. <i>Materials and Design</i> , 2022, 215, 110438.	7.0	6
2	Mechanical properties of wire and arc additively manufactured high-strength steel structures. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 395-407.	2.5	25
3	Laser welding of 16MnCr5 butt welds with gap: resulting weld quality and fatigue strength assessment. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 1867-1881.	2.5	7
4	Influence of Heat Control on Properties and Residual Stresses of Additive-Welded High-Strength Steel Components. <i>Metals</i> , 2022, 12, 951.	2.3	5
5	In-depth residual stress analysis considering manufacturing process and cyclic loading of bolts. <i>Engineering Structures</i> , 2022, 267, 114652.	5.3	1
6	An enhancement of the current design concepts for the improved consideration of residual stresses in fatigue-loaded welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 643-651.	2.5	2
7	Influence of competing notches on the fatigue strength of cut plate edges. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1791-1803.	2.5	2
8	Geometry and Distortion Prediction of Multiple Layers for Wire Arc Additive Manufacturing with Artificial Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4694.	2.5	27
9	Residual stress in wire and arc additively manufactured aluminum components. <i>Journal of Manufacturing Processes</i> , 2021, 65, 97-111.	5.9	49
10	Electron beam welding of 2205 duplex stainless steel using pre-placed nickel-based filler material. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 191, 104354.	2.6	15
11	Electron beam welding of rectangular copper wires applied in electrical drives. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 2077-2091.	2.5	3
12	Comparative study of deposition patterns for DED-Arc additive manufacturing of Al-4046. <i>Materials and Design</i> , 2021, 210, 110122.	7.0	26
13	Effects of Thermal Cycling on Wire and Arc Additive Manufacturing of Al-5356 Components. <i>Metals</i> , 2020, 10, 952.	2.3	26
14	Increased accuracy of calculated fatigue resistance of welds through consideration of the statistical size effect within the notch stress concept. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 1725-1736.	2.5	5
15	Capability of martensitic low transformation temperature welding consumables for increasing the fatigue strength of high strength steel joints. <i>Materialprüfung/Materials Testing</i> , 2020, 62, 891-900.	2.2	3
16	Effects of Reduced Ambient Pressure and Beam Oscillation on Gap Bridging Ability during Solid-State Laser Beam Welding. <i>Journal of Manufacturing and Materials Processing</i> , 2020, 4, 40.	2.2	6
17	Application of fracture mechanics to weld fatigue. <i>International Journal of Fatigue</i> , 2020, 139, 105801.	5.7	10
18	Mean stress correction in fatigue design under consideration of welding residual stress. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 535-544.	2.5	12

#	ARTICLE	IF	CITATIONS
19	Linear Elastic FE-Analysis of Porous, Laser Welded, Heat Treatable, Aluminium High Pressure Die Castings Based on X-Ray Computed Tomography Data. <i>Materials</i> , 2020, 13, 1420.	2.9	5
20	Investigation on fatigue strength of cut edges produced by various cutting methods for high-strength steels. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 545-561.	2.5	14
21	Investigations on the fatigue strength of beam-welded butt joints taking the weld quality into account. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 1303-1313.	2.5	4
22	Fatigue Strength Enhancement of Butt Welds by Means of Shot Peening and Clean Blasting. <i>Metals</i> , 2019, 9, 744.	2.3	25
23	Design and Parameter Identification of Wire and Arc Additively Manufactured (WAAM) Steel Bars for Use in Construction. <i>Metals</i> , 2019, 9, 725.	2.3	81
24	Influence of Restraint Conditions on Welding Residual Stresses in H-Type Cracking Test Specimens. <i>Materials</i> , 2019, 12, 2700.	2.9	16
25	Wire and Arc Additive Manufacturing of Aluminum Components. <i>Metals</i> , 2019, 9, 608.	2.3	90
26	Fatigue strength of thermal cut edges—influence of ISO 9013 quality groups. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 349-363.	2.5	5
27	Solid-state phase transformation and strain hardening on the residual stresses in S355 steel weldments. <i>Journal of Materials Processing Technology</i> , 2019, 265, 173-184.	6.3	45
28	Fatigue and Fracture of Weldments. , 2019, , .		16
29	The effect of the local and global weld geometry as well as material defects on crack initiation and fatigue strength. <i>Engineering Fracture Mechanics</i> , 2018, 198, 103-122.	4.3	85
30	Welding residual stresses as needed for the prediction of fatigue crack propagation and fatigue strength. <i>Engineering Fracture Mechanics</i> , 2018, 198, 123-141.	4.3	63
31	Residual Stress—Based Fatigue Design of Welded Structures. <i>Materials Performance and Characterization</i> , 2018, 7, 630-642.	0.3	3
32	Metallurgical investigation of electron beam welded duplex stainless steel X2CrNiMoN22-5-3 with plasma nitrided weld edge surfaces. <i>Materialprüfung/Materials Testing</i> , 2018, 60, 577-582.	2.2	6
33	Untersuchungen zur verlässlichen Messung der Härte nach dem UCI - Verfahren (Ultrasonic Contact) Tj ETQq1 1,0784314 rgBT /Ove	2.2	1
34	Engineering model for the quantitative consideration of residual stresses in fatigue design of welded components. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 997-1002.	2.5	13
35	Effects of residual stresses and compressive mean stresses on the fatigue strength of longitudinal fillet-welded gussets. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016, 60, 267-281.	2.5	26
36	Experimental Investigation of Fatigue Crack Propagation in Residual Stress Fields. <i>Procedia Engineering</i> , 2015, 133, 244-254.	1.2	7

#	ARTICLE	IF	CITATIONS
37	On the effects of austenite phase transformation on welding residual stresses in non-load carrying longitudinal welds. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015, 59, 179-190.	2.5	20
38	Residual Stresses and Fatigue Behavior of High Strength Structural Steels with Fillet Welded Longitudinal Stiffeners. <i>HTM - Journal of Heat Treatment and Materials</i> , 2014, 69, 14-23.	0.2	2
39	Effects of Residual Stresses on the Fatigue Performance of Welded Steels with Longitudinal Stiffeners. <i>Materials Science Forum</i> , 2013, 768-769, 636-643.	0.3	2
40	Development of a technology type factor for jacket structures for offshore wind turbines in Rhode Island. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, 063120.	2.0	11
41	On Welding Residual Stresses Near Fatigue Crack Tips. <i>Advanced Materials Research</i> , 0, 996, 801-807.	0.3	2