

Heikki Remes

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

1,127
citations

22
h-index

29
g-index

89
ext. papers

1,386
ext. citations

3.1
avg, IF

4.84
L-index

#	Paper	IF	Citations
85	Influence of grain size distribution on the HallPetch relationship of welded structural steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 592, 28-39	5.3	109
84	The stiffness of laser stake welded T-joints in web-core sandwich structures. <i>Thin-Walled Structures</i> , 2007 , 45, 453-462	4.7	59
83	Fatigue strength of welded butt joints in thin and slender specimens. <i>International Journal of Fatigue</i> , 2012 , 44, 98-106	5	42
82	Strain accumulation during microstructurally small fatigue crack propagation in bcc Fe-Cr ferritic stainless steel. <i>Acta Materialia</i> , 2018 , 144, 51-59	8.4	34
81	Fatigue strength analysis of laser-hybrid welds in thin plate considering weld geometry in microscale. <i>International Journal of Fatigue</i> , 2016 , 87, 143-152	5	32
80	Experimental and numerical penetration response of laser-welded stiffened panels. <i>International Journal of Impact Engineering</i> , 2018 , 114, 78-92	4	30
79	Characterisation of local grain size variation of welded structural steel. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016 , 60, 673-688	1.9	28
78	Microporosity and statistical size effect on the fatigue strength of cast aluminium alloys EN AC-45500 and 46200. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 567-575	5.3	27
77	Statistical size effect on multiaxial fatigue strength of notched steel components. <i>International Journal of Fatigue</i> , 2017 , 104, 322-333	5	27
76	Fatigue assessment of laser stake-welded T-joints. <i>International Journal of Fatigue</i> , 2011 , 33, 102-114	5	26
75	Laser-welded web-core sandwich plates under patch loading. <i>Marine Structures</i> , 2007 , 20, 25-48	3.8	26
74	Influence of surface integrity on the fatigue strength of high-strength steels. <i>Journal of Constructional Steel Research</i> , 2013 , 89, 21-29	3.8	25
73	Strain-based approach to fatigue crack initiation and propagation in welded steel joints with arbitrary notch shape. <i>International Journal of Fatigue</i> , 2013 , 52, 114-123	5	25
72	Round robin study on structural hot-spot and effective notch stress analysis. <i>Ships and Offshore Structures</i> , 2008 , 3, 335-345	1.4	25
71	Influence of weld quality on the fatigue strength of thin normal and high strength steel butt joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016 , 60, 731-740	1.9	25
70	A finite element study on residual stress stability and fatigue damage in high-frequency mechanical impact (HFMI)-treated welded joint. <i>International Journal of Fatigue</i> , 2017 , 94, 16-29	5	24
69	Fatigue strength assessment of laser stake-welded web-core steel sandwich panels. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 724-737	3	24

68	Statistics of Weld Geometry for Laser-Hybrid Welded Joints and its Application within Notch Stress Approach. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2010 , 54, R189-R207	1.9	24
67	Size dependent response of large shell elements under in-plane tensile loading. <i>International Journal of Solids and Structures</i> , 2014 , 51, 3752-3761	3.1	23
66	J-integral-based approach to fatigue assessment of laser stake-welded T-joints. <i>International Journal of Fatigue</i> , 2013 , 47, 340-350	5	23
65	Fatigue strength of thin laser-hybrid welded full-scale deck structure. <i>International Journal of Fatigue</i> , 2017 , 95, 282-292	5	22
64	Continuum approach to fatigue crack initiation and propagation in welded steel joints. <i>International Journal of Fatigue</i> , 2012 , 40, 16-26	5	22
63	Fatigue strength of laser-welded thin-plate ship structures based on nominal and structural hot-spot stress approach. <i>Ships and Offshore Structures</i> , 2015 , 10, 39-44	1.4	21
62	Influence of load length on short-term ice load statistics in full-scale. <i>Marine Structures</i> , 2017 , 52, 153-173	3.8	18
61	Material characterization of high-frequency mechanical impact (HFMI)-treated high-strength steel. <i>Materials and Design</i> , 2016 , 89, 205-214	8.1	18
60	Influencing factors on fatigue strength of welded thin plates based on structural stress assessment. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2014 , 58, 915-923	1.9	18
59	Influence of initial distortion on the structural stress in 3mm thick stiffened panels. <i>Thin-Walled Structures</i> , 2013 , 72, 121-127	4.7	18
58	Interaction effect of adjacent small defects on the fatigue limit of a medium carbon steel. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017 , 40, 130-144	3	18
57	Fatigue strength of laser-welded foam-filled steel sandwich beams. <i>Materials and Design</i> , 2017 , 115, 64-72	8.1	17
56	Fatigue strength evaluation of small defect at stress concentration. <i>Procedia Structural Integrity</i> , 2017 , 7, 351-358	1	17
55	Influence of general corrosion on buckling strength of laser-welded web-core sandwich plates. <i>Journal of Constructional Steel Research</i> , 2014 , 101, 342-350	3.8	16
54	On the slope of the fatigue resistance curve for laser stake-welded T-joints. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 1336-1351	3	16
53	Hydrogen effects on mechanical properties of 18%Cr ferritic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 331-337	5.3	13
52	Influence of crack tip plasticity on the slope of fatigue curves for laser stake-welded T-joints loaded under tension and bending. <i>International Journal of Fatigue</i> , 2017 , 99, 125-136	5	13
51	Fatigue strength modelling of high-performing welded joints. <i>International Journal of Fatigue</i> , 2020 , 135, 105555	5	13

50	A benchmark study of uncertainness in welding simulation. <i>Marine Structures</i> , 2017 , 56, 69-84	3.8	13
49	Influence of crack tip plasticity on fatigue behaviour of laser stake-welded T-joints made of thin plates. <i>International Journal of Mechanical Sciences</i> , 2018 , 136, 112-123	5.5	12
48	Factors affecting the fatigue strength of thin-plates in large structures. <i>International Journal of Fatigue</i> , 2017 , 101, 397-407	5	11
47	The influence of interacting small defects on the fatigue limits of a pure iron and a bearing steel. <i>International Journal of Fatigue</i> , 2020 , 135, 105560	5	10
46	Equivalent mechanical properties for cylindrical cell honeycomb core structure. <i>Composite Structures</i> , 2014 , 108, 866-875	5.3	10
45	Optimisation of passenger ship structures in concept design stage. <i>Ships and Offshore Structures</i> , 2019 , 14, 320-334	1.4	9
44	Influence of initial distortion of 3mm thin superstructure decks on hull girder response for fatigue assessment. <i>Marine Structures</i> , 2014 , 37, 203-218	3.8	9
43	Microstructure and fatigue properties of friction stir welded high-strength steel plates. <i>Science and Technology of Welding and Joining</i> , 2018 , 23, 380-386	3.7	9
42	Fatigue strength of high-strength steel after shipyard production process of plasma cutting, grinding, and sandblasting. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018 , 62, 1273-1284	1.9	9
41	Hull-superstructure interaction in optimised passenger ships. <i>Ships and Offshore Structures</i> , 2013 , 8, 612-620	6.2	8
40	Round robin study on local stress and fatigue assessment of lap joints and doubler plates. <i>Ships and Offshore Structures</i> , 2013 , 8, 621-627	1.4	8
39	The effect of the extension of the instrumentation on the measured ice-induced load on a ship hull. <i>Ocean Engineering</i> , 2017 , 144, 327-339	3.9	7
38	Influence of three-dimensional weld undercut geometry on fatigue-effective stress. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019 , 63, 277-291	1.9	7
37	Allowable stresses in high-frequency mechanical impact (HFMI)-treated joints subjected to variable amplitude loading. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017 , 61, 125-138	1.9	6
36	A 2nd order SCF solution for modeling distortion effects on fatigue of lightweight structures. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019 , 63, 1695-1705	1.9	6
35	Fatigue strength assessment of laser stake-welded T-joints subjected to reversed bending. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2016 , 39, 1272-1280	3	6
34	Fatigue properties of as-welded and post-weld-treated high-strength steel joints: The influence of constant and variable amplitude loads. <i>International Journal of Fatigue</i> , 2020 , 138, 105687	5	5
33	A review on non-classical continuum mechanics with applications in marine engineering. <i>Mechanics of Advanced Materials and Structures</i> , 2020 , 27, 1065-1075	1.8	5

32	Non-linear effective properties for web-core steel sandwich panels in tension. <i>International Journal of Mechanical Sciences</i> , 2016 , 115-116, 428-437	5.5	5
31	Microstructure and Strain-Based Fatigue Life Approach for High-Performance Welds. <i>Advanced Materials Research</i> , 2014 , 891-892, 1500-1506	0.5	4
30	A Multi-Objective Optimisation-Based Structural Design Procedure for the Concept Stage [A Chemical Product Tanker Case Study. <i>Ship Technology Research</i> , 2010 , 57, 182-196	1.6	4
29	Post-buckling of web-core sandwich plates based on classical continuum mechanics: success and needs for non-classical formulations. <i>Meccanica</i> , 2021 , 56, 1287-1302	2.1	4
28	Full-field Strain Measurements for Microstructurally Small Fatigue Crack Propagation Using Digital Image Correlation Method. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	3
27	Stress magnification factor for angular misalignment between plates with welding-induced curvature. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 729-751	1.9	3
26	Fatigue Strength Assessment of Welded Mild Steel Joints Containing Bulk Imperfections. <i>Metals</i> , 2018 , 8, 306	2.3	3
25	Fatigue Assessment of Large Thin-Walled Structures with Initial Distortions. <i>Advanced Materials Research</i> , 2014 , 891-892, 123-129	0.5	3
24	Block Erection in the Event of Delays in Shipbuilding: A Scenario-Based Approach. <i>Journal of Ship Production and Design</i> , 2016 , 32, 37-49	0.3	3
23	The effect of interacting small defects on the fatigue limit of a medium carbon steel. <i>Procedia Structural Integrity</i> , 2016 , 2, 3322-3329	1	3
22	Analytical treatment of distortion effects on fatigue behaviors of lightweight shipboard structures. <i>International Journal of Fatigue</i> , 2020 , 130, 105286	5	3
21	Free flexural vibration of symmetric beams with inertia induced cross section deformations. <i>Thin-Walled Structures</i> , 2017 , 119, 1-12	4.7	2
20	Quantitative Characterization of the Spatial Distribution of Corrosion Pits Based on Nearest Neighbor Analysis. <i>Corrosion</i> , 2020 , 76, 861-870	1.8	2
19	Influence of material non-linearity on load carrying mechanism and strain path in stiffened panel. <i>Procedia Structural Integrity</i> , 2017 , 5, 713-720	1	2
18	Block Erection Sequencing in Shipbuilding With General Lifting and Joining Times. <i>Journal of Ship Production and Design</i> , 2013 , 29, 49-56	0.3	2
17	Block Erection in the Event of Delays in Shipbuilding: A Scenario-Based Approach. <i>Journal of Ship Production and Design</i> , 2016 , 32, 37-49	0.3	2
16	Curricular Concept Maps as Structured Learning Diaries: Collecting Data on Self-Regulated Learning and Conceptual Thinking for Learning Analytics Applications. <i>Journal of Learning Analytics</i> , 2019 , 6,	3.1	2
15	Coarse mesh finite element model for cruise ship global and local vibration analysis. <i>Marine Structures</i> , 2021 , 79, 103053	3.8	2

14	Emerging Challenges for Numerical Simulations of Quasi-Static Collision Experiments on Laser-Welded Thin-Walled Steel Structures. <i>Journal of Marine Science and Application</i> , 2020 , 19, 567-583	1.2	1
13	The Effect of the Secondary Bending Moment on the Fracture Strength Evaluation of the Laser Welded Joints from a Web Core Sandwich Structure. <i>Key Engineering Materials</i> , 2014 , 601, 124-128	0.4	1
12	Block Erection Sequencing in Shipbuilding With General Lifting and Joining Times. <i>Journal of Ship Production and Design</i> , 2013 , 29, 49-56	0.3	1
11	Influences of Residual Stress, Surface Roughness and Peak-Load on Micro-Cracking: Sensitivity Analysis. <i>Metals</i> , 2021 , 11, 320	2.3	1
10	Influence of weld rigidity on the non-linear structural response of beams with a curved distortion. <i>Engineering Structures</i> , 2021 , 246, 113044	4.7	1
9	Free vibration by length-scale separation and inertia-induced interaction Application to large thin-walled structures. <i>Mechanics of Advanced Materials and Structures</i> , 1-15	1.8	1
8	EBSD characterisation of grain size distribution and grain sub-structures for ferritic steel weld metals. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 1	1.9	0
7	A traction force approach for fatigue assessment of complex welded structures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2021 , 44, 3056	3	0
6	Influence of internal and surface defects on the fatigue performance of additively manufactured stainless steel 316L. <i>International Journal of Fatigue</i> , 2022 , 107025	5	0
5	Generalized Formulation for Fatigue Assessment of Laser Stake-welded T-joints Varying Thicknesses and Loading Conditions. <i>MATEC Web of Conferences</i> , 2019 , 269, 03001	0.3	
4	Influence of Nonsymmetric Steel Sandwich Panel Joints on Response and Fatigue Strength of Passenger Ship Deck Structures. <i>Journal of Ship Production and Design</i> , 2017 , 33, 135-143	0.3	
3	Fatigue Crack Growth Rate in Laser-Welded Web Core Sandwich Panels - Fatigue Crack Propagation in Welded Base Metal. <i>Advanced Materials Research</i> , 2014 , 891-892, 1212-1216	0.5	
2	Round-robin on local stress determination and fatigue assessment of load-carrying fillet-welded joints 2011 , 295-302		
1	Experimental Investigations on Stiffened and Web-core Sandwich Panels Made for Steel under Quasi-Static Penetration. <i>Procedia Structural Integrity</i> , 2022 , 37, 17-24	1	