

Ablio De Jesus

List of Publications by Citations

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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.

230
papers

3,942
citations

36
h-index

52
g-index

255
ext. papers

4,771
ext. citations

2.4
avg, IF

6.14
L-index

#	Paper	IF	Citations
230	Strength prediction of single- and double-lap joints by standard and extended finite element modelling. <i>International Journal of Adhesion and Adhesives</i> , 2011 , 31, 363-372	3.4	236
229	A comparison of the fatigue behavior between S355 and S690 steel grades. <i>Journal of Constructional Steel Research</i> , 2012 , 79, 140-150	3.8	117
228	Generalized probabilistic model allowing for various fatigue damage variables. <i>International Journal of Fatigue</i> , 2017 , 100, 187-194	5	93
227	Evaluation and comparison of critical plane criteria for multiaxial fatigue analysis of ductile and brittle materials. <i>International Journal of Fatigue</i> , 2018 , 112, 279-288	5	91
226	Probabilistic modeling of fatigue life distribution and size effect of components with random defects. <i>International Journal of Fatigue</i> , 2019 , 126, 165-173	5	87
225	Stereovision measurements on evaluating the modulus of elasticity of wood by compression tests parallel to the grain. <i>Construction and Building Materials</i> , 2012 , 26, 207-215	6.7	82
224	Fatigue assessment of a riveted shear splice based on a probabilistic model. <i>International Journal of Fatigue</i> , 2010 , 32, 453-462	5	81
223	Recent advances on notch effects in metal fatigue: A review. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020 , 43, 637-659	3	77
222	Fatigue crack growth in friction stir welds of 6082-T6 and 6061-T6 aluminium alloys: A comparison. <i>Theoretical and Applied Fracture Mechanics</i> , 2008 , 50, 81-91	3.7	77
221	Computational framework for multiaxial fatigue life prediction of compressor discs considering notch effects. <i>Engineering Fracture Mechanics</i> , 2018 , 202, 423-435	4.2	70
220	A probabilistic fatigue approach for riveted joints using Monte Carlo simulation. <i>Journal of Constructional Steel Research</i> , 2015 , 110, 149-162	3.8	67
219	Probabilistic modelling of notch fatigue and size effect of components using highly stressed volume approach. <i>International Journal of Fatigue</i> , 2019 , 127, 110-119	5	63
218	Fatigue life prediction based on an equivalent initial flaw size approach and a new normalized fatigue crack growth model. <i>Engineering Failure Analysis</i> , 2016 , 69, 15-28	3.2	62
217	A generalization of the fatigue Kohout-Váňhet model for several fatigue damage parameters. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 284-300	4.2	58
216	Local unified probabilistic model for fatigue crack initiation and propagation: Application to a notched geometry. <i>Engineering Structures</i> , 2013 , 52, 394-407	4.7	58
215	Fatigue life prediction of metallic materials considering mean stress effects by means of an artificial neural network. <i>International Journal of Fatigue</i> , 2020 , 135, 105527	5	51
214	Analysis of solid wood beams strengthened with CFRP laminates of distinct lengths. <i>Construction and Building Materials</i> , 2012 , 35, 817-828	6.7	51

213	Strain-life and crack propagation fatigue data from several Portuguese old metallic riveted bridges. <i>Engineering Failure Analysis</i> , 2011 , 18, 148-163	3.2	49
212	Analysis of Recent Fatigue Data Using the Structural Stress Procedure in ASME Div 2 Rewrite. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2007 , 129, 355-362	1.2	48
211	A methodology for probabilistic prediction of fatigue crack initiation taking into account the scale effect. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 101-113	4.2	47
210	Nonlinear fatigue damage accumulation: Isodamage curve-based model and life prediction aspects. <i>International Journal of Fatigue</i> , 2019 , 128, 105185	5	47
209	Fatigue of riveted and bolted joints made of puddle iron – a numerical approach. <i>Journal of Constructional Steel Research</i> , 2014 , 102, 164-177	3.8	45
208	Quasi-static mechanical behaviour of a double-shear single dowel wood connection. <i>Construction and Building Materials</i> , 2009 , 23, 171-182	6.7	44
207	Nonlinear fatigue damage accumulation and life prediction of metals: A comparative study. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 1271-1282	3	44
206	Reliability analysis based on hybrid algorithm of M5 model tree and Monte Carlo simulation for corroded pipelines: Case of study X60 Steel grade pipes. <i>Engineering Failure Analysis</i> , 2019 , 97, 793-803	3.2	42
205	Combined analytical-numerical methodologies for the evaluation of mixed-mode (I + II) fatigue crack growth rates in structural steels. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 124-138	4.2	41
204	Statistical evaluation of fatigue strength of double shear riveted connections and crack growth rates of materials from old bridges. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 241-257	4.2	41
203	Probabilistic S-N fields based on statistical distributions applied to metallic and composite materials: State of the art. <i>Advances in Mechanical Engineering</i> , 2019 , 11, 168781401987039	1.2	41
202	Fatigue of riveted and bolted joints made of puddle iron – an experimental approach. <i>Journal of Constructional Steel Research</i> , 2015 , 104, 81-90	3.8	41
201	In-plane shear behaviour of traditional timber walls. <i>Engineering Structures</i> , 2013 , 56, 1028-1048	4.7	39
200	A probabilistic analysis of Miner's law for different loading conditions. <i>Structural Engineering and Mechanics</i> , 2016 , 60, 71-90		39
199	Experimental and numerical investigation of mixed mode I + II and I + III fatigue crack growth in S355J0 steel. <i>International Journal of Fatigue</i> , 2018 , 113, 160-170	5	38
198	Study of strengthening solutions for glued-laminated wood beams of maritime pine wood. <i>Construction and Building Materials</i> , 2009 , 23, 2738-2745	6.7	37
197	Crack Closure Effects on Fatigue Crack Propagation Rates: Application of a Proposed Theoretical Model. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-11	1.5	37
196	A Comparison Between the EN 383 and ASTM D5764 Test Methods for Dowel-Bearing Strength Assessment of Wood: Experimental and Numerical Investigations. <i>Strain</i> , 2010 , 46, 159-174	1.7	36

195	Experimental study on fretting-fatigue of bridge cable wires. <i>International Journal of Fatigue</i> , 2020 , 131, 105321	5	36
194	Mixed mode (I+II) fatigue crack growth in puddle iron. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 175-192	4.2	35
193	Modified CCS fatigue crack growth model for the AA2019-T851 based on plasticity-induced crack-closure. <i>Theoretical and Applied Fracture Mechanics</i> , 2016 , 85, 26-36	3.7	35
192	Fatigue analysis of a railway bridge based on fracture mechanics and local modelling of riveted connections. <i>Engineering Failure Analysis</i> , 2018 , 94, 121-144	3.2	33
191	Unified two-stage fatigue methodology based on a probabilistic damage model applied to structural details. <i>Theoretical and Applied Fracture Mechanics</i> , 2017 , 92, 252-265	3.7	32
190	Analysis of Ultra Low Cycle Fatigue problems with the Barcelona plastic damage model and a new isotropic hardening law. <i>International Journal of Fatigue</i> , 2015 , 73, 132-142	5	31
189	A probabilistic interpretation of the Miner number for fatigue life prediction. <i>Frattura Ed Integrita Strutturale</i> , 2014 , 8, 327-339	0.9	29
188	Ultra low-cycle fatigue behaviour of a structural steel. <i>Engineering Structures</i> , 2014 , 60, 214-222	4.7	29
187	Fatigue and fracture behaviour of friction stir welded aluminium-magnesium 2195. <i>Theoretical and Applied Fracture Mechanics</i> , 2012 , 60, 1-9	3.7	29
186	A procedure to derive probabilistic fatigue crack propagation data. <i>International Journal of Structural Integrity</i> , 2012 , 3, 158-183	1	29
185	Global-local fatigue assessment of an ancient riveted metallic bridge based on submodelling of the critical detail. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 546-560	3	29
184	Fatigue cracking of welded railway bridges: A review. <i>Engineering Failure Analysis</i> , 2019 , 104, 154-176	3.2	27
183	Reliability-based optimisation for offshore structures using saddlepoint approximation. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2020 , 173, 33-42	1.8	27
182	An assessment of a strain-life approach for fatigue crack growth. <i>International Journal of Structural Integrity</i> , 2012 , 3, 344-376	1	27
181	Kinetics of fatigue crack growth and crack closure effect in long term operating steel manufactured at the turn of the 19 th and 20 th centuries. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 160-174	4.2	26
180	Influence of fillet end geometry on fatigue behaviour of welded joints. <i>International Journal of Fatigue</i> , 2019 , 123, 196-212	5	26
179	An efficient methodology for fatigue damage assessment of bridge details using modal superposition of stress intensity factors. <i>International Journal of Fatigue</i> , 2015 , 81, 61-77	5	25
178	Energy response of S355 and 41Cr4 steel during fatigue crack growth process. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 663-675	1.3	25

177	Recent advances on size effect in metal fatigue under defects: a review. <i>International Journal of Fracture</i> ,1	2.3	24
176	Critical Assessment of a Local Strain-Based Fatigue Crack Growth Model Using Experimental Data Available for the P355NL1 Steel. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2013 , 135,	1.2	23
175	Low and High Cycle Fatigue and Cyclic Elasto-Plastic Behavior of the P355NL1 Steel. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2006 , 128, 298-304	1.2	23
174	Fatigue resistance curves for single and double shear riveted joints from old portuguese metallic bridges. <i>Engineering Failure Analysis</i> , 2019 , 96, 255-273	3.2	23
173	PSO-BP Neural Network-Based Strain Prediction of Wind Turbine Blades. <i>Materials</i> , 2019 , 12,	3.5	22
172	An Enhanced Reliability Index Method and Its Application in Reliability-Based Collaborative Design and Optimization. <i>Mathematical Problems in Engineering</i> , 2019 , 2019, 1-10	1.1	22
171	Fatigue life evaluation of a composite steel-concrete roadway bridge through the hot-spot stress method considering progressive pavement deterioration. <i>Engineering Structures</i> , 2018 , 166, 46-61	4.7	21
170	Influence of loading direction on the static and fatigue fracture properties of the long term operated metallic materials. <i>Engineering Failure Analysis</i> , 2019 , 96, 409-425	3.2	21
169	Fatigue crack propagation prediction of a pressure vessel mild steel based on a strain energy density model. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 74-84	0.9	20
168	Fatigue assessment based on hot-spot stresses obtained from the global dynamic analysis and local static sub-model. <i>International Journal of Structural Integrity</i> , 2019 , 12, 31-47	1	20
167	Fatigue crack growth modelling of FB Bridge puddle iron under variable amplitude loading. <i>International Journal of Fatigue</i> , 2020 , 136, 105588	5	20
166	Structural reliability of corroded pipeline using the so-called Separable Monte Carlo method. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 730-737	1.3	19
165	Analysis of Fatigue Damage under Block Loading in a Low Carbon Steel. <i>Strain</i> , 2008 , 44, 429-439	1.7	19
164	Stress distributions and crack growth in riveted lap joints fastening thick steel plates. <i>Engineering Failure Analysis</i> , 2018 , 91, 370-381	3.2	18
163	GA-BP Neural Network-Based Strain Prediction in Full-Scale Static Testing of Wind Turbine Blades. <i>Energies</i> , 2019 , 12, 1026	3.1	17
162	Monotonic, Low-Cycle Fatigue, and Ultralow-Cycle Fatigue Behaviors of the X52, X60, and X65 Piping Steel Grades. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2016 , 138,	1.2	17
161	Fatigue Life Prediction Based on Crack Growth Analysis Using an Equivalent Initial Flaw Size Model: Application to a Notched Geometry. <i>Procedia Engineering</i> , 2015 , 114, 730-737		17
160	Residual Lifetime Assessment of an Ancient Riveted Steel Road Bridge. <i>Strain</i> , 2011 , 47, e402-e415	1.7	17

159	Fatigue Assessment of Critical Connections in a Historic Eyebar Suspension Bridge. <i>Journal of Performance of Constructed Facilities</i> , 2019 , 33, 04018091	2	17
158	A new ultra-low cycle fatigue model applied to the X60 piping steel. <i>International Journal of Fatigue</i> , 2016 , 93, 201-213	5	16
157	A fatigue damage evaluation using local damage parameters for an offshore structure. <i>Proceedings of the Institution of Civil Engineers: Maritime Engineering</i> , 2020 , 173, 43-57	1.8	15
156	Isodamage curve-based fatigue damage accumulation model considering the exhaustion of static toughness. <i>Engineering Failure Analysis</i> , 2020 , 115, 104575	3.2	15
155	Study of the Fatigue Crack Growth in Long-Term Operated Mild Steel under Mixed-Mode (I + II, I + III) Loading Conditions. <i>Materials</i> , 2020 , 13,	3.5	15
154	Fatigue Strength Evaluation of Resin-Injected Bolted Connections Using Statistical Analysis. <i>Engineering</i> , 2017 , 3, 795-805	9.7	15
153	Numerical study of fatigue damage under random loading using Rainflow cycle counting. <i>International Journal of Structural Integrity</i> , 2021 , 12, 408-418	1	15
152	Development of an efficient approach for fatigue crack initiation and propagation analysis of bridge critical details using the modal superposition technique. <i>Engineering Failure Analysis</i> , 2018 , 89, 118-137	3.2	14
151	Finite Element Modeling of Fatigue Damage Using a Continuum Damage Mechanics Approach. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2005 , 127, 157-164	1.2	14
150	Probabilistic fatigue S-N curves derivation for notched components. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 105-118	0.9	14
149	Mixed Mode (I+II) Fatigue Crack Growth of Long Term Operating Bridge Steel. <i>Procedia Engineering</i> , 2016 , 160, 262-269		14
148	Fatigue crack growth rate in CFRP reinforced constructional old steel. <i>International Journal of Structural Integrity</i> , 2018 , 9, 381-395	1	14
147	Application of the modal superposition technique combined with analytical elastoplastic approaches to assess the fatigue crack initiation on structural components. <i>Engineering Fracture Mechanics</i> , 2017 , 185, 271-283	4.2	13
146	Analysis of the fatigue life estimators of the materials using small samples. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 699-710	1.3	13
145	Quasi-static behavior of moment-carrying steel-wood doweled joints. <i>Construction and Building Materials</i> , 2014 , 53, 439-447	6.7	13
144	Probabilistic Fatigue Crack Initiation and Propagation Fields Using the Strain Energy Density. <i>Strength of Materials</i> , 2018 , 50, 620-635	0.6	13
143	The Master S-N curve approach for fatigue assessment of welded bridge structural details. <i>International Journal of Fatigue</i> , 2021 , 152, 106432	5	13
142	Reliability assessment of measurement accuracy for FBG sensors used in structural tests of the wind turbine blades based on strain transfer laws. <i>Engineering Failure Analysis</i> , 2020 , 112, 104506	3.2	12

141	Characterisation of steel components under monotonic loading by means of image-based methods. <i>Optics and Lasers in Engineering</i> , 2014 , 53, 142-151	4.6	12
140	Comparison Between Cemented Carbide and PCD Tools on Machinability of a High Silicon Aluminum Alloy. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 4638-4657	1.6	12
139	Evaluation of multiaxial high-cycle fatigue criteria under proportional loading for S355 steel. <i>Engineering Failure Analysis</i> , 2021 , 120, 105037	3.2	12
138	Fatigue Crack Growth Rate of the Long Term Operated Puddle Iron from the Eiffel Bridge. <i>Metals</i> , 2019 , 9, 53	2.3	11
137	Machinability of PA12 and short fibre reinforced PA12 materials produced by fused filament fabrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 885-903	3.2	11
136	An experimental comparison of strengthening solutions for dowel-type wood connections. <i>Construction and Building Materials</i> , 2013 , 46, 114-127	6.7	11
135	Numerical study of fatigue damage under random loading using rainflow cycle counting. <i>International Journal of Structural Integrity</i> , 2020 , 12, 149-162	1	11
134	Fatigue assessment of EA4T railway axles under artificial surface damage. <i>International Journal of Fatigue</i> , 2021 , 146, 106157	5	11
133	Proposal of a fatigue crack propagation model taking into account crack closure effects using a modified CCS crack growth model. <i>Procedia Structural Integrity</i> , 2016 , 1, 110-117	1	11
132	Design S-N Curves for Old Portuguese and French Riveted Bridges Connection Based on Statistical Analyses. <i>Procedia Engineering</i> , 2016 , 160, 77-84		11
131	Fatigue characterization of a beam-to-column riveted joint. <i>Engineering Failure Analysis</i> , 2019 , 103, 95-123	3.2	10
130	Improved manufacturing performance of a new antifriction composite parts based on copper. <i>Engineering Failure Analysis</i> , 2018 , 91, 225-233	3.2	10
129	A comparison between S-N Logistic and Kohout-Věhet formulations applied to the fatigue data of old metallic bridges materials. <i>Frattura Ed Integrita Strutturale</i> , 2019 , 13, 400-410	0.9	10
128	Strain-based approach for fatigue crack propagation simulation of the 6061-T651 aluminium alloy. <i>International Journal of Materials and Structural Integrity</i> , 2017 , 11, 1	0.3	9
127	Fatigue Damage Assessment of a Riveted Connection Made of Puddle Iron from the F8 Bridge using the Modified Probabilistic Interpretation Technique. <i>Procedia Engineering</i> , 2015 , 114, 760-767		9
126	Cyclic and Fatigue Behavior of the P355NL1 Steel Under Block Loading. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2009 , 131,	1.2	9
125	Fatigue Damage Behavior of a Structural Component Made of P355NL1 Steel Under Block Loading. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2009 , 131,	1.2	9
124	A probabilistic approach for multiaxial fatigue criteria. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 160-165	0.9	9

123	Fatigue crack propagation behavior of old puddle iron including crack closure effects. <i>Procedia Structural Integrity</i> , 2016 , 2, 3218-3225	1	9
122	Probabilistic S-N curves for CFRP retrofitted steel details. <i>International Journal of Fatigue</i> , 2021 , 148, 106205	5	9
121	Analysis of Constant and Variable Amplitude Strain-Life Data Using a Novel Probabilistic Weibull Regression Model. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2010 , 132,	1.2	8
120	Monotonic and Fracture Behaviours of Bolted Connections with Distinct Bolt Preloads and Surface Treatments. <i>Frattura Ed Integrita Strutturale</i> , 2019 , 13, 304-317	0.9	8
119	Fatigue Assessments of a Jacket-Type Offshore Structure Based on Static and Dynamic Analyses. <i>Practice Periodical on Structural Design and Construction</i> , 2021 , 26, 04020054	1.2	8
118	Fatigue crack growth of 42CrMo4 and 41Cr4 steels under different heat treatment conditions. <i>International Journal of Structural Integrity</i> , 2018 , 9, 326-336	1	8
117	Probabilistic strain-fatigue life performance based on stochastic analysis of structural and WAAM-stainless steels. <i>Engineering Failure Analysis</i> , 2021 , 127, 105495	3.2	8
116	A methodology for a global-local fatigue analysis of ancient riveted metallic bridges. <i>International Journal of Structural Integrity</i> , 2018 , 9, 355-380	1	7
115	Probabilistic S-N Field Assessment for a Notched Plate Made of Puddle Iron From the Eiffel Bridge with an Elliptical Hole. <i>Procedia Engineering</i> , 2015 , 114, 691-698		7
114	Analysis of Variable Amplitude Fatigue Data of the P355NL1 Steel Using the Effective Strain Damage Model. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2009 , 131,	1.2	7
113	Applying the Weibull and Stéssi Methods that Derive Reliable Weibull Curves to Historical German Bridges. <i>Practice Periodical on Structural Design and Construction</i> , 2020 , 25, 04020029	1.2	7
112	Fatigue performance prediction of S235 base steel plates in the riveted connections. <i>Structures</i> , 2021 , 30, 745-755	3.4	7
111	Structural Reliability Analysis of Corroded Pipeline made in X60 Steel Based on M5 Model Tree Algorithm and Monte Carlo Simulation. <i>Procedia Structural Integrity</i> , 2018 , 13, 1670-1675	1	7
110	Evaluation of Fatigue Design Curves for a Double-Side Welded Connection Used in Offshore Applications 2018 ,		7
109	Effect of lead on the machinability of brass alloys using polycrystalline diamond cutting tools. <i>Journal of Strain Analysis for Engineering Design</i> , 2018 , 53, 602-615	1.3	7
108	A finite element post-processor for fatigue assessment of welded structures based on the Master S-N curve method. <i>International Journal of Fatigue</i> , 2021 , 153, 106482	5	7
107	Simulation Studies of Turning of Aluminium Cast Alloy Using PCD Tools. <i>Procedia CIRP</i> , 2017 , 58, 555-560.	1.8	6
106	Energy description of fatigue crack growth process - theoretical and experimental approach. <i>Procedia Structural Integrity</i> , 2017 , 5, 904-911	1	6

105	Review of Current Progress in 3D Linear Elastic Fracture Mechanics. <i>Structural Integrity</i> , 2019 , 125-131	0.2	6
104	Non-Destructive Structural Wood Diagnosis of a Medieval Building. <i>Procedia Structural Integrity</i> , 2017 , 5, 1147-1152	1	6
103	Improvement of the fatigue crack growth resistance in long term operated steel strengthened with CFRP patches. <i>Procedia Structural Integrity</i> , 2017 , 5, 912-919	1	6
102	Fatigue strength assessment of riveted details in railway metallic bridges. <i>Engineering Failure Analysis</i> , 2021 , 121, 105120	3.2	6
101	Fatigue and damage tolerance assessment of induction hardened S38C axles under different foreign objects. <i>International Journal of Fatigue</i> , 2021 , 149, 106276	5	6
100	Low-cycle fatigue modelling supported by strain energy density-based Huffman model considering the variability of dislocation density. <i>Engineering Failure Analysis</i> , 2021 , 128, 105608	3.2	6
99	Degradation Theory of Long Term Operated Materials and Structures. <i>Structural Integrity</i> , 2021 ,	0.2	6
98	Fatigue assessment of an existing steel bridge by finite element modelling and field measurements. <i>Journal of Physics: Conference Series</i> , 2017 , 843, 012038	0.3	5
97	Study of the influence of notch radii and temperature on the probability of failure: A methodology to perform a combined assessment. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019 , 42, 2663-2673	3	5
96	Mechanical Properties of Wood Construction Materials from a Building from the 19th Century. <i>Procedia Structural Integrity</i> , 2017 , 5, 1097-1101	1	5
95	ULCF assessment of X52 piping steel by means of cyclic bending tests. <i>Journal of Constructional Steel Research</i> , 2017 , 138, 663-674	3.8	5
94	Fatigue Life Evaluation of Critical Details of the Herdño Luz Suspension Bridge. <i>Procedia Structural Integrity</i> , 2017 , 5, 1027-1034	1	5
93	Modelling probabilistic fatigue crack propagation rates for a mild structural steel. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9, 80-96	0.9	5
92	Statistical analysis of fatigue crack propagation data of materials from ancient portuguese metallic bridges. <i>Frattura Ed Integrita Strutturale</i> , 2017 , 11, 136-146	0.9	5
91	Minimal Invasive Diagnostic Capabilities and Effectiveness of CFRP-Patches Repairs in Long-Term Operated Metals. <i>Metals</i> , 2020 , 10, 984	2.3	5
90	Application of Modal Superposition Technique in the Fatigue Analysis Using Local Approaches. <i>Procedia Engineering</i> , 2016 , 160, 45-52		5
89	Fatigue Crack Growth Behavior of Bonded Aluminum Joints. <i>Procedia Engineering</i> , 2016 , 160, 270-277		5
88	Yield behaviour of high-density polyethylene: Experimental and numerical characterization. <i>Engineering Failure Analysis</i> , 2019 , 97, 331-353	3.2	5

87	Machinability of titanium aluminides: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2018 , 146442071880938	1.3	5
86	Mechanical characterization of the AlSi9Cu3 cast alloy under distinct stress states and thermal conditions. <i>Engineering Fracture Mechanics</i> , 2019 , 216, 106499	4.2	4
85	Fatigue crack growth behaviour of the 6082-T6 aluminium using CT specimens with distinct notches. <i>Procedia Structural Integrity</i> , 2016 , 2, 3272-3279	1	4
84	Mechanical behaviour of wood T-joints. Experimental and numerical investigation. <i>Frattura Ed Integrita Strutturale</i> , 2015 , 9, 23-37	0.9	4
83	Analysis of Recent Fatigue Data Using the Structural Stress Procedure in ASME Div. 2 Rewrite 2005 , 253		4
82	Fatigue assessment of steel half-pipes bolted connections using local approaches. <i>Procedia Structural Integrity</i> , 2016 , 1, 118-125	1	4
81	Fatigue Life Response of P355NL1 Steel under Uniaxial Loading Using Kohout-Váňet Model. <i>Procedia Engineering</i> , 2016 , 160, 109-116		4
80	Alternative steel lattice structures for wind energy converters. <i>International Journal of Structural Integrity</i> , 2019 , 12, 48-69	1	4
79	Mechanical response of three semi crystalline polymers under different stress states: Experimental investigation and modelling. <i>Polymer Testing</i> , 2020 , 81, 106156	4.5	4
78	Mixed mode (I+II) fatigue crack paths in S355J0 steel in terms of fractal geometry 2018 ,		4
77	Fatigue assessment of a high-speed railway composite steel-concrete bridge by the hot-spot stress method. <i>International Journal of Structural Integrity</i> , 2018 , 9, 337-354	1	4
76	Characterization of the Tensile Mechanical Behavior of Wooden Construction on Materials from Historic Building. <i>Procedia Structural Integrity</i> , 2017 , 5, 1086-1091	1	3
75	Comparison between EDM and grinding machining on fatigue behaviour of AISI D2 tool steel. <i>International Journal of Fatigue</i> , 2020 , 139, 105742	5	3
74	Damage behaviour of full-scale straight pipes under extreme cyclic bending conditions. <i>Journal of Constructional Steel Research</i> , 2018 , 143, 97-109	3.8	3
73	Global Fatigue Life Modelling of Steel Half-pipes Bolted Connections. <i>Procedia Engineering</i> , 2016 , 160, 278-284		3
72	The renewed TC12/ESIS technical committee - Risk analysis and safety of large structures and components. <i>Engineering Failure Analysis</i> , 2019 , 105, 798-802	3.2	3
71	Structural Characterization of 13th Century Building placed in Trã-os-Montes Region. <i>Procedia Structural Integrity</i> , 2017 , 5, 1136-1140	1	3
70	Numerical Modelling of a Wood Pavement of a 13th Century Building. <i>Procedia Structural Integrity</i> , 2017 , 5, 1141-1146	1	3

69	Petrographic Characterization of Partition Wall Mortars of a 19th Century Building. <i>Procedia Structural Integrity</i> , 2017 , 5, 1092-1096	1	3
68	MECHANICAL CHARACTERIZATION OF ANCIENT PORTUGUESE RIVETED BRIDGES STEELS. <i>Engineering Structures and Technologies</i> , 2017 , 9, 214-225	0.2	3
67	Probabilistic Fatigue Assessment of a Notched Detail Taking Into Account Mean Stress Effects. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2012 , 134,	1.2	3
66	Assessment of fatigue crack growth data available for materials from Portuguese bridges based on UniGrow model. <i>Procedia Engineering</i> , 2011 , 10, 971-976		3
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