Ablio De Jesus

List of Publications by Year in Descending Order

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	Fatigue Assessment of Inconel 625 Produced by Directed Energy Deposition from Miniaturized Specimens. *Metals*, **2022**, 12, 156	2.3	3
229	Numerical analysis and discussion on the hot-spot stress concept applied to welded tubular KT joints. *Engineering Failure Analysis*, **2022**, 135, 106092	3.2	2
228	Machinability of the 18Ni300 Additively Manufactured Maraging Steel Based on Orthogonal Cutting Tests. *Lecture Notes in Mechanical Engineering*, **2022**, 1-13	0.4	2
227	Automation of Property Acquisition of Single Track Depositions Manufactured through Direct Energy Deposition. *Applied Sciences (Switzerland)*, **2022**, 12, 2755	2.6	0
226	A Methodology for Tribo-Mechanical Characterization of Metallic Alloys under Extreme Loading and Temperature Conditions Typical of Metal Cutting Processes. *Journal of Manufacturing and Materials Processing*, **2022**, 6, 46	2.2	0
225	Comparison between brittle and ductile adhesives in CFRP/steel joints. *Procedia Structural Integrity*, **2022**, 37, 1043-1048	1	0
224	Finite Element Analysis of Distortions, Residual Stresses and Residual Strains in Laser Powder Bed Fusion-Produced Components. *Structural Integrity*, **2022**, 137-147	0.2	
223	Fatigue Failure of 51CrV4 Steel Under Rotating Bending and Tensile. *Structural Integrity*, **2022**, 307-313	0.2	
222	Fatigue in Trapezoidal Leaf Springs of Suspensions in Two-Axle Wagons—An Overview and Simulation. *Structural Integrity*, **2022**, 97-114	0.2	
221	Fatigue Behavior of Metallic Components Obtained by Topology Optimization for Additive Manufacturing. *Frattura Ed Integrita Strutturale*, **2021**, 15, 119-135	0.9	1
220	A brief review of fatigue design criteria on offshore wind turbine support structures. *Frattura Ed Integrita Strutturale*, **2021**, 15, 302-315	0.9	2
219	Fatigue performance prediction of S235 base steel plates in the riveted connections. *Structures*, **2021**, 30, 745-755	3.4	7
218	Fatigue assessment of EA4T railway axles under artificial surface damage. *International Journal of Fatigue*, **2021**, 146, 106157	5	11
217	Comparison of the machinability of the 316L and 18Ni300 additively manufactured steels based on turning tests. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2021**, 235, 2207-2226	1.3	1
216	An Efficient Methodology towards Mechanical Characterization and Modelling of 18Ni300 AMed Steel in Extreme Loading and Temperature Conditions for Metal Cutting Applications. *Journal of Manufacturing and Materials Processing*, **2021**, 5, 83	2.2	2
215	Numerical study of fatigue damage under random loading using Rainflow cycle counting. *International Journal of Structural Integrity*, **2021**, 12, 408-418	1	15
214	Fatigue Assessments of a Jacket-Type Offshore Structure Based on Static and Dynamic Analyses. *Practice Periodical on Structural Design and Construction*, **2021**, 26, 04020054	1.2	8

213	Fatigue strength assessment of riveted details in railway metallic bridges. *Engineering Failure Analysis*, **2021**, 121, 105120	3.2	6
212	Evaluation of multiaxial high-cycle fatigue criteria under proportional loading for S355 steel. *Engineering Failure Analysis*, **2021**, 120, 105037	3.2	12
211	Mechanical Properties, Microstructure and Degradation Processes in Long-Term Operated Bridge Materials from the 19th Century and Early 20th Century. *Structural Integrity*, **2021**, 21-53	0.2	0
210	Introduction to the Degradation Theory of Low Carbon Steels. *Structural Integrity*, **2021**, 1-19	0.2	0
209	Contact stress analysis and fatigue life prediction of turbine disc–blade attachment with fir-tree tenon structure. *Fatigue and Fracture of Engineering Materials and Structures*, **2021**, 44, 1014-1026	3	3
208	Case Studies: Structural, Fractographic and Mechanical Aspects of the Steels Degradation of the Hyperboloid Gridshell Towers. *Structural Integrity*, **2021**, 95-125	0.2	1
207	Sensitivity of Puddled Steels to Stress Corrosion Cracking and Estimation of Their State with Using Electrochemical Parameters. *Structural Integrity*, **2021**, 55-93	0.2	0
206	Probabilistic S-N curves for CFRP retrofitted steel details. *International Journal of Fatigue*, **2021**, 148, 106205	5	9
205	Numerical-Experimental Plastic-Damage Characterisation of Additively Manufactured 18Ni300 Maraging Steel by Means of Multiaxial Double-Notched Specimens. *Journal of Manufacturing and Materials Processing*, **2021**, 5, 84	2.2	2
204	Fatigue and damage tolerance assessment of induction hardened S38C axles under different foreign objects. *International Journal of Fatigue*, **2021**, 149, 106276	5	6
203	Probabilistic strain-fatigue life performance based on stochastic analysis of structural and WAAM-stainless steels. *Engineering Failure Analysis*, **2021**, 127, 105495	3.2	8
202	An approach for predicting fatigue life of CFRP retrofitted metallic structural details. *International Journal of Fatigue*, **2021**, 154, 106557	5	2
201	Low-cycle fatigue modelling supported by strain energy density-based Huffman model considering the variability of dislocation density. *Engineering Failure Analysis*, **2021**, 128, 105608	3.2	6
200	The Master S-N curve approach for fatigue assessment of welded bridge structural details. *International Journal of Fatigue*, **2021**, 152, 106432	5	13
199	Application and discussion of various crack closure models to predict fatigue crack growth in 6061-T651 aluminium alloy. *International Journal of Fatigue*, **2021**, 153, 106472	5	0
198	Global-local fatigue approaches for snug-tight and preloaded hot-dip galvanized steel bolted joints. *International Journal of Fatigue*, **2021**, 153, 106486	5	2
197	A finite element post-processor for fatigue assessment of welded structures based on the Master S-N curve method. *International Journal of Fatigue*, **2021**, 153, 106482	5	7
196	Fatigue and Fracture Behaviour of Long Term Operated Bridge Materials and Components. *Structural Integrity*, **2021**, 127-205	0.2	1

195	Degradation Theory of Long Term Operated Materials and Structures. *Structural Integrity*, **2021**,	0.2	6
194	Distortion-Induced Fatigue Reassessment of a Welded Bridge Detail Based on Structural Stress Methods. *Metals*, **2021**, 11, 1952	2.3	
193	A fatigue damage evaluation using local damage parameters for an offshore structure. *Proceedings of the Institution of Civil Engineers: Maritime Engineering*, **2020**, 173, 43-57	1.8	15
192	Isodamage curve-based fatigue damage accumulation model considering the exhaustion of static toughness. *Engineering Failure Analysis*, **2020**, 115, 104575	3.2	15
191	Comparison between EDM and grinding machining on fatigue behaviour of AISI D2 tool steel. *International Journal of Fatigue*, **2020**, 139, 105742	5	3
190	Reliability assessment of measurement accuracy for FBG sensors used in structural tests of the wind turbine blades based on strain transfer laws. *Engineering Failure Analysis*, **2020**, 112, 104506	3.2	12
189	Experimental characterisation of fused filament fabrication printed parts under tension, shear, and combined shear–tension loads via Arcan test. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2020**, 234, 835-850	1.3	2
188	Reliability-based optimisation for offshore structures using saddlepoint approximation. *Proceedings of the Institution of Civil Engineers: Maritime Engineering*, **2020**, 173, 33-42	1.8	27
187	Study of the Fatigue Crack Growth in Long-Term Operated Mild Steel under Mixed-Mode (I + II, I + III) Loading Conditions. *Materials*, **2020**, 13,	3.5	15
186	Machinability of PA12 and short fibre-reinforced PA12 materials produced by fused filament fabrication. *International Journal of Advanced Manufacturing Technology*, **2020**, 107, 885-903	3.2	11
185	Recent advances on notch effects in metal fatigue: A review. *Fatigue and Fracture of Engineering Materials and Structures*, **2020**, 43, 637-659	3	77
184	Fatigue life prediction of metallic materials considering mean stress effects by means of an artificial neural network. *International Journal of Fatigue*, **2020**, 135, 105527	5	51
183	Multiaxial fatigue assessment of S355 steel in the high-cycle region by using Susmel–s criterion. *Procedia Structural Integrity*, **2020**, 28, 796-803	1	0
182	Fatigue behaviour of bolted joints for rack structures. *Procedia Structural Integrity*, **2020**, 28, 1426-1430	1	
181	Numerical determination of stress intensity factors: J-integral and modified virtual crack closure technique. *Procedia Structural Integrity*, **2020**, 28, 146-154	1	1
180	Experimental study on fretting-fatigue of bridge cable wires. *International Journal of Fatigue*, **2020**, 131, 105321	5	36
179	Renewable Energy and Oceanic Structures: Part IV. *Proceedings of the Institution of Civil Engineers: Maritime Engineering*, **2020**, 173, 31-32	1.8	0
178	Applying the Weibull and St–si Methods that Derive Reliable W–ler Curves to Historical German Bridges. *Practice Periodical on Structural Design and Construction*, **2020**, 25, 04020029	1.2	7

177	Numerical study of fatigue damage under random loading using rainflow cycle counting. *International Journal of Structural Integrity*, **2020**, 12, 149-162	1	11
176	Minimal Invasive Diagnostic Capabilities and Effectiveness of CFRP-Patches Repairs in Long-Term Operated Metals. *Metals*, **2020**, 10, 984	2.3	5
175	Mechanical response of three semi crystalline polymers under different stress states: Experimental investigation and modelling. *Polymer Testing*, **2020**, 81, 106156	4.5	4
174	Fatigue crack growth modelling of Fö Bridge puddle iron under variable amplitude loading. *International Journal of Fatigue*, **2020**, 136, 105588	5	20
173	Tribology of metal cutting: newly formed underside of chip. *Procedia CIRP*, **2019**, 82, 136-141	1.8	2
172	Mixed mode (I+II, I+III) fatigue crack growth description in S355/P355NL1 steel. *Procedia Structural Integrity*, **2019**, 16, 51-58	1	
171	Probabilistic S-N fields based on statistical distributions applied to metallic and composite materials: State of the art. *Advances in Mechanical Engineering*, **2019**, 11, 168781401987039	1.2	41
170	Reliability analysis based on hybrid algorithm of M5 model tree and Monte Carlo simulation for corroded pipelines: Case of study X60 Steel grade pipes. *Engineering Failure Analysis*, **2019**, 97, 793-803	3.2	42
169	Mechanical characterization of the AlSi9Cu3 cast alloy under distinct stress states and thermal conditions. *Engineering Fracture Mechanics*, **2019**, 216, 106499	4.2	4
168	Probabilistic modelling of notch fatigue and size effect of components using highly stressed volume approach. *International Journal of Fatigue*, **2019**, 127, 110-119	5	63
167	Fatigue cracking of welded railway bridges: A review. *Engineering Failure Analysis*, **2019**, 104, 154-176	3.2	27
166	Probabilistic modeling of fatigue life distribution and size effect of components with random defects. *International Journal of Fatigue*, **2019**, 126, 165-173	5	87
165	Fatigue characterization of a beam-to-column riveted joint. *Engineering Failure Analysis*, **2019**, 103, 95-123	3.2	10
164	Review of Current Progress in 3D Linear Elastic Fracture Mechanics. *Structural Integrity*, **2019**, 125-131	0.2	6
163	A Stress Intensity Factor Study for a Pressure Vessel CT Specimen Using Finite Element Method. *Structural Integrity*, **2019**, 181-186	0.2	2
162	GA-BP Neural Network-Based Strain Prediction in Full-Scale Static Testing of Wind Turbine Blades. *Energies*, **2019**, 12, 1026	3.1	17
161	Fatigue Crack Growth Rate of the Long Term Operated Puddle Iron from the Eiffel Bridge. *Metals*, **2019**, 9, 53	2.3	11
160	Influence of fillet end geometry on fatigue behaviour of welded joints. *International Journal of Fatigue*, **2019**, 123, 196-212	5	26

159	Nonlinear fatigue damage accumulation: Isodamage curve-based model and life prediction aspects. *International Journal of Fatigue*, **2019**, 128, 105185	5	47
158	Study of the influence of notch radii and temperature on the probability of failure: A methodology to perform a combined assessment. *Fatigue and Fracture of Engineering Materials and Structures*, **2019**, 42, 2663-2673	3	5
157	PSO-BP Neural Network-Based Strain Prediction of Wind Turbine Blades. *Materials*, **2019**, 12,	3.5	22
156	An Enhanced Reliability Index Method and Its Application in Reliability-Based Collaborative Design and Optimization. *Mathematical Problems in Engineering*, **2019**, 2019, 1-10	1.1	22
155	The renewed TC12/ESIS technical committee - Risk analysis and safety of large structures and components. *Engineering Failure Analysis*, **2019**, 105, 798-802	3.2	3
154	Elastoplastic and fracture behaviour of semi-crystalline polymers under multiaxial stress states. *Frattura Ed Integrita Strutturale*, **2019**, 13, 82-103	0.9	2
153	Monotonic and Fracture Behaviours of Bolted Connections with Distinct Bolt Preloads and Surface Treatments. *Frattura Ed Integrita Strutturale*, **2019**, 13, 304-317	0.9	8
152	A comparison between S-N Logistic and Kohout-Věchet formulations applied to the fatigue data of old metallic bridges materials. *Frattura Ed Integrita Strutturale*, **2019**, 13, 400-410	0.9	10
151	Fatigue assessment based on hot-spot stresses obtained from the global dynamic analysis and local static sub-model. *International Journal of Structural Integrity*, **2019**, 12, 31-47	1	20
150	Alternative steel lattice structures for wind energy converters. *International Journal of Structural Integrity*, **2019**, 12, 48-69	1	4
149	Fatigue Damage Tool (FDT) - A tool for fatigue damage assessment according to design codes. *Procedia Structural Integrity*, **2019**, 22, 376-385	1	1
148	Sensitivity of reliability-based fatigue analysis to crack shape development in cracked pipeline. *Procedia Structural Integrity*, **2019**, 22, 201-210	1	3
147	Fatigue-fracture characterization of wood under mode I loading. *International Journal of Fatigue*, **2019**, 121, 265-271	5	2
146	Effect of secondary crystal orientations on the deformation anisotropy for nickel-based single-crystal plate with notch feature. *Journal of Strain Analysis for Engineering Design*, **2019**, 54, 54-64	1.3	2
145	Fatigue resistance curves for single and double shear riveted joints from old portuguese metallic bridges. *Engineering Failure Analysis*, **2019**, 96, 255-273	3.2	23
144	Fatigue Assessment of Critical Connections in a Historic Eyebar Suspension Bridge. *Journal of Performance of Constructed Facilities*, **2019**, 33, 04018091	2	17
143	Nonlinear fatigue damage accumulation and life prediction of metals: A comparative study. *Fatigue and Fracture of Engineering Materials and Structures*, **2019**, 42, 1271-1282	3	44
142	Influence of loading direction on the static and fatigue fracture properties of the long term operated metallic materials. *Engineering Failure Analysis*, **2019**, 96, 409-425	3.2	21

141	Yield behaviour of high-density polyethylene: Experimental and numerical characterization. *Engineering Failure Analysis*, **2019**, 97, 331-353	3.2	5
140	Efficient computational approach for fatigue assessment of riveted connections. *Journal of Constructional Steel Research*, **2019**, 153, 1-18	3.8	3
139	Global-local fatigue assessment of an ancient riveted metallic bridge based on submodelling of the critical detail. *Fatigue and Fracture of Engineering Materials and Structures*, **2019**, 42, 546-560	3	29
138	Development of an efficient approach for fatigue crack initiation and propagation analysis of bridge critical details using the modal superposition technique. *Engineering Failure Analysis*, **2018**, 89, 118-137	3.2	14
137	Fatigue life evaluation of a composite steel-concrete roadway bridge through the hot-spot stress method considering progressive pavement deterioration. *Engineering Structures*, **2018**, 166, 46-61	4.7	21
136	Experimental and numerical investigation of mixed mode I + II and I + III fatigue crack growth in S355J0 steel. *International Journal of Fatigue*, **2018**, 113, 160-170	5	38
135	Damage behaviour of full-scale straight pipes under extreme cyclic bending conditions. *Journal of Constructional Steel Research*, **2018**, 143, 97-109	3.8	3
134	Improved manufacturing performance of a new antifriction composite parts based on copper. *Engineering Failure Analysis*, **2018**, 91, 225-233	3.2	10
133	Evaluation and comparison of critical plane criteria for multiaxial fatigue analysis of ductile and brittle materials. *International Journal of Fatigue*, **2018**, 112, 279-288	5	91
132	Structural reliability of corroded pipeline using the so-called Separable Monte Carlo method. *Journal of Strain Analysis for Engineering Design*, **2018**, 53, 730-737	1.3	19
131	Fatigue analysis of a railway bridge based on fracture mechanics and local modelling of riveted connections. *Engineering Failure Analysis*, **2018**, 94, 121-144	3.2	33
130	Aerodynamic damping in cables of overhead transmission lines subjected to wind loads. *Wind Engineering*, **2018**, 42, 268-275	1.2	2
129	Computational framework for multiaxial fatigue life prediction of compressor discs considering notch effects. *Engineering Fracture Mechanics*, **2018**, 202, 423-435	4.2	70
128	Analysis of the fatigue life estimators of the materials using small samples. *Journal of Strain Analysis for Engineering Design*, **2018**, 53, 699-710	1.3	13
127	A methodology for a global-local fatigue analysis of ancient riveted metallic bridges. *International Journal of Structural Integrity*, **2018**, 9, 355-380	1	7
126	Structural integrity assessment of rigid polyurethane components using energy methods. *Procedia Structural Integrity*, **2018**, 13, 1595-1599	1	2
125	Structural Reliability Analysis of Corroded Pipeline made in X60 Steel Based on M5 Model Tree Algorithm and Monte Carlo Simulation. *Procedia Structural Integrity*, **2018**, 13, 1670-1675	1	7
124	A new local approach to cleavage fracture and its application in a reactor pressure vessel. *Procedia Structural Integrity*, **2018**, 13, 2174-2179	1	1

123	Mixed mode (I+II) fatigue crack paths in S355J0 steel in terms of fractal geometry **2018**,		4
122	Machinability of titanium aluminides: A review. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2018**, 146442071880938	1.3	5
121	Pre-Strain Effects on Mixed-Mode Fatigue Crack Propagation Behaviour of the P355NL1 Pressure Vessels Steel **2018**,		2
120	Evaluation of Fatigue Design Curves for a Double-Side Welded Connection Used in Offshore Applications **2018**,		7
119	Probabilistic Fatigue Crack Initiation and Propagation Fields Using the Strain Energy Density. *Strength of Materials*, **2018**, 50, 620-635	0.6	13
118	Fracture characterization of a cast aluminum alloy aiming machining simulation. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2018**, 146442071879911	1.3	
117	Effect of lead on the machinability of brass alloys using polycrystalline diamond cutting tools. *Journal of Strain Analysis for Engineering Design*, **2018**, 53, 602-615	1.3	7
116	Energy response of S355 and 41Cr4 steel during fatigue crack growth process. *Journal of Strain Analysis for Engineering Design*, **2018**, 53, 663-675	1.3	25
115	Characterization of the mechanical behaviour of wooden construction materials from Quinta lobeira de cima *International Journal of Structural Integrity*, **2018**, 9, 396-410	1	2
114	Fatigue assessment of a high-speed railway composite steel-concrete bridge by the hot-spot stress method. *International Journal of Structural Integrity*, **2018**, 9, 337-354	1	4
113	Fatigue crack growth of 42CrMo4 and 41Cr4 steels under different heat treatment conditions. *International Journal of Structural Integrity*, **2018**, 9, 326-336	1	8
112	Stress distributions and crack growth in riveted lap joints fastening thick steel plates. *Engineering Failure Analysis*, **2018**, 91, 370-381	3.2	18
111	Numerical analysis and structural intervention methodology for a wood floor of a medieval building. *International Journal of Structural Integrity*, **2018**, 9, 307-325	1	3
110	Fatigue crack growth rate in CFRP reinforced constructional old steel. *International Journal of Structural Integrity*, **2018**, 9, 381-395	1	14
109	CINPAR2016 Strengthening and repair of structures. *International Journal of Structural Integrity*, **2018**, 9, 278-280	1	1
108	A methodology for probabilistic prediction of fatigue crack initiation taking into account the scale effect. *Engineering Fracture Mechanics*, **2017**, 185, 101-113	4.2	47
107	Combined analytical-numerical methodologies for the evaluation of mixed-mode (I + II) fatigue crack growth rates in structural steels. *Engineering Fracture Mechanics*, **2017**, 185, 124-138	4.2	41
106	Mixed mode (I+II) fatigue crack growth in puddle iron. *Engineering Fracture Mechanics*, **2017**, 185, 175-192	4.2	35

105	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. *Engineering Fracture Mechanics*, **2017**, 185, 160-174	4.2	26
104	A generalization of the fatigue Kohout-Vě̌het model for several fatigue damage parameters. *Engineering Fracture Mechanics*, **2017**, 185, 284-300	4.2	58
103	Simulation Studies of Turning of Aluminium Cast Alloy Using PCD Tools. *Procedia CIRP*, **2017**, 58, 555-560	1.8	6
102	Statistical evaluation of fatigue strength of double shear riveted connections and crack growth rates of materials from old bridges. *Engineering Fracture Mechanics*, **2017**, 185, 241-257	4.2	41
101	Application of the modal superposition technique combined with analytical elastoplastic approaches to assess the fatigue crack initiation on structural components. *Engineering Fracture Mechanics*, **2017**, 185, 271-283	4.2	13
100	Fatigue assessment of an existing steel bridge by finite element modelling and field measurements. *Journal of Physics: Conference Series*, **2017**, 843, 012038	0.3	5
99	Generalized probabilistic model allowing for various fatigue damage variables. *International Journal of Fatigue*, **2017**, 100, 187-194	5	93
98	Characterization of the Tensile Mechanical Behavior of Wooden Construction on Materials from Historic Building. *Procedia Structural Integrity*, **2017**, 5, 1086-1091	1	3
97	Energy description of fatigue crack growth process - theoretical and experimental approach. *Procedia Structural Integrity*, **2017**, 5, 904-911	1	6
96	ICMFM18-Mechanical fatigue of metals. *International Journal of Structural Integrity*, **2017**, 8, 614-616	1	0
95	Comparison Between Cemented Carbide and PCD Tools on Machinability of a High Silicon Aluminum Alloy. *Journal of Materials Engineering and Performance*, **2017**, 26, 4638-4657	1.6	12
94	Unified two-stage fatigue methodology based on a probabilistic damage model applied to structural details. *Theoretical and Applied Fracture Mechanics*, **2017**, 92, 252-265	3.7	32
93	Non-Destructive Structural Wood Diagnosis of a Medieval Building. *Procedia Structural Integrity*, **2017**, 5, 1147-1152	1	6
92	Mechanical Properties of Wood Construction Materials from a Building from the 19th Century. *Procedia Structural Integrity*, **2017**, 5, 1097-1101	1	5
91	ULCF assessment of X52 piping steel by means of cyclic bending tests. *Journal of Constructional Steel Research*, **2017**, 138, 663-674	3.8	5
90	Fatigue Strength Evaluation of Resin-Injected Bolted Connections Using Statistical Analysis. *Engineering*, **2017**, 3, 795-805	9.7	15
89	Fatigue of adhesively bonded epoxy-AA6061T651 joints. *International Journal of Structural Integrity* , **2017**, 8, 707-724	1	2
88	Structural Characterization of 13th Century Building placed in Trȩ-os-Montes Region. *Procedia Structural Integrity*, **2017**, 5, 1136-1140	1	3

87	Numerical Modelling of a Wood Pavement of a 13th Century Building. *Procedia Structural Integrity*, **2017**, 5, 1141-1146	1	3
86	Fatigue Life Evaluation of Critical Details of the Hercílio Luz Suspension Bridge. *Procedia Structural Integrity*, **2017**, 5, 1027-1034	1	5
85	Petrographic Characterization of Partition Wall Mortars of a 19th Century Building. *Procedia Structural Integrity*, **2017**, 5, 1092-1096	1	3
84	Pathological Inspection of Structural Masonry Walls of a Late-Romantic Historical Building. *Procedia Structural Integrity*, **2017**, 5, 1102-1107	1	2
83	Improvement of the fatigue crack growth resistance in long term operated steel strengthened with CFRP patches. *Procedia Structural Integrity*, **2017**, 5, 912-919	1	6
82	NUMERICAL ANALYSIS OF A DOUBLE SHEAR STANDARD BOLTED CONNECTION CONSIDERING MONOTONIC LOADINGS. *Engineering Structures and Technologies*, **2017**, 9, 183-194	0.2	2
81	MECHANICAL CHARACTERIZATION OF ANCIENT PORTUGUESE RIVETED BRIDGES STEELS. *Engineering Structures and Technologies*, **2017**, 9, 214-225	0.2	3
80	Strain-based approach for fatigue crack propagation simulation of the 6061-T651 aluminium alloy. *International Journal of Materials and Structural Integrity*, **2017**, 11, 1	0.3	9
79	A probabilistic approach for multiaxial fatigue criteria. *Frattura Ed Integrita Strutturale*, **2017**, 11, 160-165	0.9	9
78	Fatigue crack propagation prediction of a pressure vessel mild steel based on a strain energy density model. *Frattura Ed Integrita Strutturale*, **2017**, 11, 74-84	0.9	20
77	Probabilistic fatigue S-N curves derivation for notched components. *Frattura Ed Integrita Strutturale*, **2017**, 11, 105-118	0.9	14
76	Statistical analysis of fatigue crack propagation data of materials from ancient portuguese metallic bridges. *Frattura Ed Integrita Strutturale*, **2017**, 11, 136-146	0.9	5
75	STRUCTURAL INTEGRITY OF MATERIALS AND STRUCTURES. *Engineering Structures and Technologies*, **2017**, 9, 157-157	0.2	1
74	Modified CCS fatigue crack growth model for the AA2019-T851 based on plasticity-induced crack-closure. *Theoretical and Applied Fracture Mechanics*, **2016**, 85, 26-36	3.7	35
73	Fatigue crack growth behaviour of the 6082-T6 aluminium using CT specimens with distinct notches. *Procedia Structural Integrity*, **2016**, 2, 3272-3279	1	4
72	Global Fatigue Life Modelling of Steel Half-pipes Bolted Connections. *Procedia Engineering*, **2016**, 160, 278-284		3
71	Probabilistic Non-Linear Cumulative Fatigue Damage of the P355NL1 Pressure Vessel Steel **2016**,		2
70	Monotonic, Low-Cycle Fatigue, and Ultralow-Cycle Fatigue Behaviors of the X52, X60, and X65 Piping Steel Grades. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2016**, 138,	1.2	17

69	A probabilistic analysis of Miner's law for different loading conditions. *Structural Engineering and Mechanics*, **2016**, 60, 71-90		39
68	Crack Closure Effects on Fatigue Crack Propagation Rates: Application of a Proposed Theoretical Model. *Advances in Materials Science and Engineering*, **2016**, 2016, 1-11	1.5	37
67	Fatigue assessment of steel half-pipes bolted connections using local approaches. *Procedia Structural Integrity*, **2016**, 1, 118-125	1	4
66	Proposal of a fatigue crack propagation model taking into account crack closure effects using a modified CCS crack growth model. *Procedia Structural Integrity*, **2016**, 1, 110-117	1	11
65	Fatigue life prediction based on an equivalent initial flaw size approach and a new normalized fatigue crack growth model. *Engineering Failure Analysis*, **2016**, 69, 15-28	3.2	62
64	A new ultra-low cycle fatigue model applied to the X60 piping steel. *International Journal of Fatigue* , **2016**, 93, 201-213	5	16
63	Mixed Mode (I+II) Fatigue Crack Growth of Long Term Operating Bridge Steel. *Procedia Engineering*, **2016**, 160, 262-269		14
62	Application of Modal Superposition Technique in the Fatigue Analysis Using Local Approaches. *Procedia Engineering*, **2016**, 160, 45-52		5
61	Fatigue Crack Growth Behavior of Bonded Aluminum Joints. *Procedia Engineering*, **2016**, 160, 270-277		5
60	Fatigue crack propagation behavior of old puddle iron including crack closure effects. *Procedia Structural Integrity*, **2016**, 2, 3218-3225	1	9
59	Design S-N Curves for Old Portuguese and French Riveted Bridges Connection Based on Statistical Analyses. *Procedia Engineering*, **2016**, 160, 77-84		11
58	Fatigue Life Response of P355NL1 Steel under Uniaxial Loading Using Kohout-V□het Model. *Procedia Engineering*, **2016**, 160, 109-116		4
57	A probabilistic fatigue approach for riveted joints using Monte Carlo simulation. *Journal of Constructional Steel Research*, **2015**, 110, 149-162	3.8	67
56	An efficient methodology for fatigue damage assessment of bridge details using modal superposition of stress intensity factors. *International Journal of Fatigue*, **2015**, 81, 61-77	5	25
55	Embedment strength characterization of pine wood. Numerical study of the non-linear behaviour. *Ci□ncia & Tecnologia Dos Materiais*, **2015**, 27, 15-26		2
54	Analysis of Ultra Low Cycle Fatigue problems with the Barcelona plastic damage model and a new isotropic hardening law. *International Journal of Fatigue*, **2015**, 73, 132-142	5	31
53	Fatigue of riveted and bolted joints made of puddle iron□An experimental approach. *Journal of Constructional Steel Research*, **2015**, 104, 81-90	3.8	41
52	Probabilistic S-N Field Assessment for a Notched Plate Made of Puddle Iron From the Eiffel Bridge with an Elliptical Hole. *Procedia Engineering*, **2015**, 114, 691-698		7

51	Ultra-Low-Cycle Fatigue Behaviour of Full-Scale Elbows **2015**,		2
50	Fatigue Damage Assessment of a Riveted Connection Made of Puddle Iron from the Fão Bridge using the Modified Probabilistic Interpretation Technique. *Procedia Engineering*, **2015**, 114, 760-767		9
49	Mechanical behaviour of wood T-joints. Experimental and numerical investigation. *Frattura Ed Integrita Strutturale*, **2015**, 9, 23-37	0.9	4
48	Modelling probabilistic fatigue crack propagation rates for a mild structural steel. *Frattura Ed Integrita Strutturale*, **2015**, 9, 80-96	0.9	5
47	Fatigue Life Prediction Based on Crack Growth Analysis Using an Equivalent Initial Flaw Size Model: Application to a Notched Geometry. *Procedia Engineering*, **2015**, 114, 730-737		17
46	Fatigue of riveted and bolted joints made of puddle iron: A numerical approach. *Journal of Constructional Steel Research*, **2014**, 102, 164-177	3.8	45
45	Quasi-static behavior of moment-carrying steel–wood doweled joints. *Construction and Building Materials*, **2014**, 53, 439-447	6.7	13
44	Characterisation of steel components under monotonic loading by means of image-based methods. *Optics and Lasers in Engineering*, **2014**, 53, 142-151	4.6	12
43	A probabilistic interpretation of the Miner number for fatigue life prediction. *Frattura Ed Integrita Strutturale*, **2014**, 8, 327-339	0.9	29
42	Comparisons of Monotonic, Low-Cycle and Ultra-Low-Cycle Fatigue Behaviours of X52, X60 and X65 Piping Steel Grades **2014**,		2
41	Ultra low-cycle fatigue behaviour of a structural steel. *Engineering Structures*, **2014**, 60, 214-222	4.7	29
40	Local unified probabilistic model for fatigue crack initiation and propagation: Application to a notched geometry. *Engineering Structures*, **2013**, 52, 394-407	4.7	58
39	An experimental comparison of strengthening solutions for dowel-type wood connections. *Construction and Building Materials*, **2013**, 46, 114-127	6.7	11
38	In-plane shear behaviour of traditional timber walls. *Engineering Structures*, **2013**, 56, 1028-1048	4.7	39
37	Critical Assessment of a Local Strain-Based Fatigue Crack Growth Model Using Experimental Data Available for the P355NL1 Steel. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2013**, 135,	1.2	23
36	Analysis of solid wood beams strengthened with CFRP laminates of distinct lengths. *Construction and Building Materials*, **2012**, 35, 817-828	6.7	51
35	Fatigue and fracture behaviour of friction stir welded aluminium–lithium 2195. *Theoretical and Applied Fracture Mechanics*, **2012**, 60, 1-9	3.7	29
34	A comparison of the fatigue behavior between S355 and S690 steel grades. *Journal of Constructional Steel Research*, **2012**, 79, 140-150	3.8	117

33	Probabilistic Fatigue Assessment of a Notched Detail Taking Into Account Mean Stress Effects. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2012**, 134,	1.2	3
32	Stereovision measurements on evaluating the modulus of elasticity of wood by compression tests parallel to the grain. *Construction and Building Materials*, **2012**, 26, 207-215	6.7	82
31	Characterization of Aluminium Single-Lap Joints for High Temperature Applications. *Materials Science Forum*, **2012**, 730-732, 721-726	0.4	2
30	A procedure to derive probabilistic fatigue crack propagation data. *International Journal of Structural Integrity*, **2012**, 3, 158-183	1	29
29	An assessment of a strain-life approach for fatigue crack growth. *International Journal of Structural Integrity*, **2012**, 3, 344-376	1	27
28	Fatigue Modeling of a Notched Flat Plate Under Variable Amplitude Loading Supported by Elastoplastic Finite Element Method Analyses. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2011**, 133,	1.2	1
27	Residual Lifetime Assessment of an Ancient Riveted Steel Road Bridge. *Strain*, **2011**, 47, e402-e415	1.7	17
26	Strain-life and crack propagation fatigue data from several Portuguese old metallic riveted bridges. *Engineering Failure Analysis*, **2011**, 18, 148-163	3.2	49
25	Strength prediction of single- and double-lap joints by standard and extended finite element modelling. *International Journal of Adhesion and Adhesives*, **2011**, 31, 363-372	3.4	236
24	Assessment of fatigue crack growth data available for materials from Portuguese bridges based on UniGrow model. *Procedia Engineering*, **2011**, 10, 971-976		3
23	Fatigue modeling of a notched geometry under spectrum block loading supported on elastoplastic FEA. *Procedia Engineering*, **2011**, 10, 1354-1359		2
22	A Comparison Between the EN 383 and ASTM D5764 Test Methods for Dowel-Bearing Strength Assessment of Wood: Experimental and Numerical Investigations. *Strain*, **2010**, 46, 159-174	1.7	36
21	Probabilistic Fatigue Assessment of a Notched Detail Taking Into Account Mean Stress Effects **2010** ,		1
20	Analysis of Constant and Variable Amplitude Strain-Life Data Using a Novel Probabilistic Weibull Regression Model. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2010**, 132,	1.2	8
19	Identification of the net effective strain-life model for a puddle iron from the Portuguese F riveted road bridge. *Procedia Engineering*, **2010**, 2, 1181-1190		3
18	Fatigue assessment of a riveted shear splice based on a probabilistic model. *International Journal of Fatigue*, **2010**, 32, 453-462	5	81
17	Cyclic and Fatigue Behavior of the P355NL1 Steel Under Block Loading. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2009**, 131,	1.2	9
16	Analysis of Variable Amplitude Fatigue Data of the P355NL1 Steel Using the Effective Strain Damage Model. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2009**, 131,	1.2	7

15	Fatigue Damage Behavior of a Structural Component Made of P355NL1 Steel Under Block Loading. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2009**, 131,	1.2	9
14	Quasi-static mechanical behaviour of a double-shear single dowel wood connection. *Construction and Building Materials*, **2009**, 23, 171-182	6.7	44
13	Study of strengthening solutions for glued-laminated wood beams of maritime pine wood. *Construction and Building Materials*, **2009**, 23, 2738-2745	6.7	37
12	Analysis of Fatigue Damage under Block Loading in a Low Carbon Steel. *Strain*, **2008**, 44, 429-439	1.7	19
11	Cyclic Elastoplastic Analysis of Structures Concerning a Fatigue Assessment According to the Local Strain Approach: An Overview. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2008**, 130,	1.2	3
10	Fatigue crack growth in friction stir welds of 6082-T6 and 6061-T6 aluminium alloys: A comparison. *Theoretical and Applied Fracture Mechanics*, **2008**, 50, 81-91	3.7	77
9	Influence of the submerged arc welding in the mechanical behaviour of the P355NL1 steel Part II: analysis of the low/high cycle fatigue behaviours. *Journal of Materials Science*, **2007**, 42, 5973-5981	4.3	3
8	Cyclic and Fatigue Behavior of the P355NL1 Steel Under Block Loading **2007**, 351		1
7	Analysis of Recent Fatigue Data Using the Structural Stress Procedure in ASME Div 2 Rewrite. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2007**, 129, 355-362	1.2	48
6	Low and High Cycle Fatigue and Cyclic Elasto-Plastic Behavior of the P355NL1 Steel. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2006**, 128, 298-304	1.2	23
5	Finite Element Modeling of Fatigue Damage Using a Continuum Damage Mechanics Approach. *Journal of Pressure Vessel Technology, Transactions of the ASME*, **2005**, 127, 157-164	1.2	14
4	Analysis of Recent Fatigue Data Using the Structural Stress Procedure in ASME Div. 2 Rewrite **2005**, 253		4
3	Validation of procedures for fatigue life assessment of a steel pressure vessel. *Fatigue and Fracture of Engineering Materials and Structures*, **2004**, 27, 799-810	3	3
2	Finite Element Modelling of Fatigue Damage Using a Continuum Damage Mechanics Approach **2004**, 3		
1	Recent advances on size effect in metal fatigue under defects: a review. *International Journal of Fracture*,1	2.3	24