Miguel Muniz-Calvente

List of Publications by Year
in descending order

63	1,726	430874 18	289244 40
papers	citations	h-index	g-index

64	64	64	1304
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fatigue life estimation of pre-corroded 42CrMo4 subjected to accelerated pitting corrosion method. International Journal of Fracture, 2022, 234, 69-80.	2.2	4
2	Multiaxial fatigue under variable amplitude loadings: review and solutions. International Journal of Structural Integrity, 2022, 13, 349-393.	3.3	46
3	Distribution of the through-thickness effective stress intensity factor range and its influence on fatigue crack growth rate curves. Theoretical and Applied Fracture Mechanics, 2022, 119, 103374.	4.7	8
4	A comparative review of time- and frequency-domain methods for fatigue damage assessment. International Journal of Fatigue, 2022, 163, 107069.	5.7	19
5	A geometry and temperature dependent regression model for statistical analysis of fracture toughness in notched specimens. Engineering Fracture Mechanics, 2021, 242, 107414.	4.3	3
6	A methodology for simulating plasticity induced crack closure and crack shape evolution based on elasticâ€“plastic fracture parameters. Engineering Fracture Mechanics, 2021, 241, 107412.	4.3	14
7	A frequencyâ€domain approach for damage detection in welded structures. Fatigue and Fracture of Engineering Materials and Structures, 2021, 44, 1134-1148.	3.4	7
8	Probabilistic Assessment of Fracture Toughness of Epoxy Resin EPOLAM 2025 Including the Notch Radii Effect. Polymers, 2021, 13, 1857.	4.5	1
9	Fatigue Assessment of Selective Laser Melted Ti-6Al-4V: Influence of Speed Manufacturing and Porosity. Metals, 2021, 11, 1022.	2.3	7
10	Considerations about the existence or non-existence of the fatigue limit: implications on practical design. International Journal of Fracture, 2020, 223, 189-196.	2.2	13
11	Suitability of constraint and closure models for predicting crack growth in generic configurations. Engineering Fracture Mechanics, 2020, 225, 106808.	4.3	8
12	Improving with probabilistic and scale features the Basquin linear and bi-linear fatigue models. Engineering Failure Analysis, 2020, 116, 104728.	4.0	11
13	A novel procedure for damage evaluation of fillet-welded joints. International Journal of Fatigue, 2020, 136, 105599.	5.7	8
14	A Novel Approach to Describe the Timeâ€“Temperature Conversion among Relaxation Curves of Viscoelastic Materials. Materials, 2020, 13, 1809.	2.9	6
15	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.	3.4	6
16	A hybrid SURF-DIC algorithm to estimate local displacements in structures using low-cost conventional cameras. Engineering Failure Analysis, 2019, 104, 807-815.	4.0	12
17	The renewed TC12/ESIS technical committee - Risk analysis and safety of large structures and components. Engineering Failure Analysis, 2019, 105, 798-802.	4.0	8
18	Fatigue Assessment Strategy Using Bayesian Techniques. Materials, 2019, 12, 3239.	2.9	14

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19	Shape of the power spectral density matrix components: Influence on fatigue damage. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 972-987.	3.4	2
20	Pitch bearing lifetime prediction considering the effect of pitch control strategy. Journal of Physics: Conference Series, 2019, 1222, 012017.	0.4	4
21	Probabilistic failure analysis for real glass components under general loading conditions. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 1283-1291.	3.4	4
22	Novel non-linear relationship to evaluate the critical plane orientation. International Journal of Fatigue, 2019, 124, 537-543.	5.7	7
23	A Probabilistic Approach to Assessing and Predicting the Failure of Notched Components. Materials, 2019, 12, 4053.	2.9	5
24	A comparative analysis of multiaxial fatigue models under random loading. Engineering Structures, 2019, 182, 112-122.	5.3	13
25	Influence of random fatigue loading non-proportionality on damage. Theoretical and Applied Fracture Mechanics, 2018, 96, 56-63.	4.7	6
26	Welded joints under multiaxial non-proportional loading. Theoretical and Applied Fracture Mechanics, 2018, 93, 202-210.	4.7	15
27	Study of alternatives and experimental validation for predictions of hole-edge fatigue crack growth in 42CrMo4 steel. Engineering Structures, 2018, 176, 621-631.	5.3	9
28	The Generalised Local Model applied to Fibreglass. Composite Structures, 2018, 202, 1353-1360.	5.8	1
29	Abaqus2Matlab: A suitable tool for finite element post-processing. Advances in Engineering Software, 2017, 105, 9-16.	3.8	121
30	A methodology for probabilistic prediction of fatigue crack initiation taking into account the scale effect. Engineering Fracture Mechanics, 2017, 185, 101-113.	4.3	54
31	Probabilistic assessment of fatigue data from shape homologous but different scale specimens. Application to an experimental program. Engineering Fracture Mechanics, 2017, 185, 193-209.	4.3	18
32	Fitting the fracture curve of concrete as a density function pertaining to the generalized extreme value family. Materials and Design, 2017, 129, 201-209.	7.0	7
33	A generalization of the fatigue Kohout-VÄ›chet model for several fatigue damage parameters. Engineering Fracture Mechanics, 2017, 185, 284-300.	4.3	71
34	Methodology to evaluate fatigue damage under multiaxial random loading. Engineering Fracture Mechanics, 2017, 185, 114-123.	4.3	15
35	Generalized probabilistic model allowing for various fatigue damage variables. International Journal of Fatigue, 2017, 100, 187-194.	5.7	112
36	Study of the time-temperature-dependent behaviour of PVB: Application to laminated glass elements. Thin-Walled Structures, 2017, 119, 324-331.	5.3	50

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37	Probabilistic failure assessment of Fibreglass composites. Composite Structures, 2017, 160, 1163-1170.	5.8	11
38	Fatigue life estimation of fillet-welded tubular T-joints subjected to multiaxial loading. International Journal of Fatigue, 2017, 101, 263-270.	5.7	24
39	ICMFM18-Mechanical fatigue of metals. International Journal of Structural Integrity, 2017, 8, 614-616.	3.3	2
40	Probabilistic assessment of VHCF data as pertaining to concurrent populations using a Weibull regression model. Fatigue and Fracture of Engineering Materials and Structures, 2017, 40, 1772-1782.	3.4	10
41	A probabilistic approach for multiaxial fatigue criteria. Frattura Ed Integrita Strutturale, 2017, 11, 160-165.	0.9	13
42	Joint evaluation of fracture and fatigue results from distinct specimen size and geometry. Procedia Structural Integrity, 2016, 1, 142-149.	0.8	1
43	Fatigue life evaluation of metallic structures under multiaxial random loading. International Journal of Fatigue, 2016, 90, 191-199.	5.7	41
44	Joint evaluation of fracture results from distinct test conditions, implying loading, specimen size and geometry. Procedia Structural Integrity, 2016, 2, 720-727.	0.8	2
45	Statistical joint evaluation of fracture results from distinct experimental programs: An application to annealed glass. Theoretical and Applied Fracture Mechanics, 2016, 85, 149-157.	4.7	8
46	Fatigue Life Response of P355NL1 Steel under Uniaxial Loading Using Kohout-VÄ›chet Model. Procedia Engineering, 2016, 160, 109-116.	1.2	5
47	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.	4.7	43
48	Probabilistic failure analysis for glass components under general loading conditions. Procedia Structural Integrity, 2016, 2, 2591-2597.	0.8	0
49	Probabilistic Non-Linear Cumulative Fatigue Damage of the P355NL1 Pressure Vessel Steel. , 2016, , .		3
50	Spectral fatigue life estimation for non-proportional multiaxial random loading. Theoretical and Applied Fracture Mechanics, 2016, 83, 67-72.	4.7	34
51	Fatigue assessment of notched specimens by means of a critical plane-based criterion and energy concepts. Theoretical and Applied Fracture Mechanics, 2016, 84, 57-63.	4.7	53
52	Hazard maps and global probability as a way to transfer standard fracture results to reliable design of real components. Engineering Failure Analysis, 2016, 69, 135-146.	4.0	9
53	Hazard Maps and Probabilistic Failure Assessment: Two Ways of Tackling Reliability. Procedia Engineering, 2015, 114, 738-745.	1.2	1
54	Fracture mechanics based approach to fatigue analysis of welded joints. Engineering Failure Analysis, 2015, 49, 67-78.	4.0	43

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55	Elastic and plastic parts of strain energy density in critical distance determination. Engineering Fracture Mechanics, 2015, 147, 100-118.	4.3	240
56	AnÃ¡lisis probabilÃstico de elementos de vidrio recocido mediante una distribuciÃ³n triparamÃ©trica Weibull. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 153-158.	1.9	3
57	Structural integrity assessment of metallic components under multiaxial fatigue: the Câ€“S criterion and its evolution. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 870-883.	3.4	97
58	Multiaxial fatigue assessment using a simplified critical plane-based criterion. International Journal of Fatigue, 2011, 33, 969-976.	5.7	137
59	Multiaxial fatigue life estimation in welded joints using the critical plane approach. International Journal of Fatigue, 2009, 31, 188-196.	5.7	102
60	Size effect in Sâ€“N curves: A fractal approach to finite-life fatigue strength. International Journal of Fatigue, 2009, 31, 927-933.	5.7	64
61	An approach to size effect in fatigue of metals using fractal theories. Fatigue and Fracture of Engineering Materials and Structures, 2002, 25, 619-627.	3.4	51
62	Probabilistic Weibull Methodology for Fracture Prediction of Brittle and Ductile Materials. Applied Mechanics and Materials, 0, 784, 443-451.	0.2	19
63	Response of laminated glass elements subject to dynamic loadings using a monolithic model and a stress effective Youngâ€™s modulus. Journal of Sandwich Structures and Materials, 0, , 109963622210846.	3.5	0