

Alfonso Fernández Canteli

List of Publications by Year in descending order

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148
papers

2,888
citations

159585

30
h-index

223800

46
g-index

154
all docs

154
docs citations

154
times ranked

2016
citing authors

#	ARTICLE	IF	CITATIONS
19	A comparative analysis of multiaxial fatigue models under random loading. <i>Engineering Structures</i> , 2019, 182, 112-122.	5.3	13
20	Dynamic Behavior of Supported Structures from Free-Free Modal Tests Using Structural Dynamic Modification. <i>Shock and Vibration</i> , 2018, 2018, 1-14.	0.6	3
21	A methodology for probabilistic prediction of fatigue crack initiation taking into account the scale effect. <i>Engineering Fracture Mechanics</i> , 2017, 185, 101-113.	4.3	54
22	Probabilistic assessment of fatigue data from shape homologous but different scale specimens. Application to an experimental program. <i>Engineering Fracture Mechanics</i> , 2017, 185, 193-209.	4.3	18
23	Modified Disk-Shaped Compact Tension Test for Measuring Concrete Fracture Properties. <i>International Journal of Concrete Structures and Materials</i> , 2017, 11, 215-228.	3.2	19
24	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.	4.3	43
25	Methodology to evaluate fatigue damage under multiaxial random loading. <i>Engineering Fracture Mechanics</i> , 2017, 185, 114-123.	4.3	15
26	Buckling of multilayered laminated glass beams: Validation of the effective thickness concept. <i>Composite Structures</i> , 2017, 169, 2-9.	5.8	10
27	Generalized probabilistic model allowing for various fatigue damage variables. <i>International Journal of Fatigue</i> , 2017, 100, 187-194.	5.7	112
28	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.	4.7	42
29	Study of the time-temperature-dependent behaviour of PVB: Application to laminated glass elements. <i>Thin-Walled Structures</i> , 2017, 119, 324-331.	5.3	50
30	Probabilistic failure assessment of Fibreglass composites. <i>Composite Structures</i> , 2017, 160, 1163-1170.	5.8	11
31	Probabilistic assessment of VHCF data as pertaining to concurrent populations using a Weibull regression model. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2017, 40, 1772-1782.	3.4	10
32	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	22
33	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.	0.8	16
34	Dynamic and stress relaxation properties of the whole porcine temporomandibular joint disc under compression. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 57, 109-115.	3.1	9
35	Application of Modal Superposition Technique in the Fatigue Analysis Using Local Approaches. <i>Procedia Engineering</i> , 2016, 160, 45-52.	1.2	7
36	Joint evaluation of fracture results from distinct test conditions, implying loading, specimen size and geometry. <i>Procedia Structural Integrity</i> , 2016, 2, 720-727.	0.8	2

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37	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
38	Design S-N Curves for Old Portuguese and French Riveted Bridges Connection Based on Statistical Analyses. Procedia Engineering, 2016, 160, 77-84.	1.2	12
39	Fatigue Life Response of P355NL1 Steel under Uniaxial Loading Using Kohout-Váchet Model. Procedia Engineering, 2016, 160, 109-116.	1.2	5
40	Probabilistic Non-Linear Cumulative Fatigue Damage of the P355NL1 Pressure Vessel Steel. , 2016, , .		3
41	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
42	Buckling of laminated-glass beams using the effective-thickness concept. Composite Structures, 2016, 137, 44-55.	5.8	17
43	A probabilistic analysis of Miner's law for different loading conditions. Structural Engineering and Mechanics, 2016, 60, 71-90.	1.0	43
44	Fatigue characterization of a crankshaft steel: Use and interaction of new models. Frattura Ed Integrita Strutturale, 2016, 10, 187-195.	0.9	1
45	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.	1.2	7
46	Fatigue Damage Assessment of a Riveted Connection Made of Puddle Iron from the FÁo Bridge using the Modified Probabilistic Interpretation Technique. Procedia Engineering, 2015, 114, 760-767.	1.2	9
47	Modelling probabilistic fatigue crack propagation rates for a mild structural steel. Frattura Ed Integrita Strutturale, 2015, 9, 80-96.	0.9	10
48	Failure and repair analysis of a runway beam: Influence of the standard applied to lifetime prediction. Engineering Failure Analysis, 2015, 56, 89-97.	4.0	8
49	Elastic and plastic parts of strain energy density in critical distance determination. Engineering Fracture Mechanics, 2015, 147, 100-118.	4.3	240
50	AnÁlisis probabilÁstico de elementos de vidrio recocido mediante una distribuci3n triparamÁtrica Weibull. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 153-158.	1.9	3
51	Influence of temperature on the delamination process under mode I fracture and dynamic loading of two carbon-epoxy composites. Composites Part B: Engineering, 2015, 68, 207-214.	12.0	18
52	Influence Of The Gripping Fixture On The Modified Compact Tension Test Results: Evaluation Of The Experiments On Cylindrical Concrete Specimens. Transactions of the VÁB: Technical University of Ostrava, Civil Engineering Series, 2015, 15, .	0.3	0
53	A probabilistic interpretation of the Miner number for fatigue life prediction. Frattura Ed Integrita Strutturale, 2014, 8, 327-339.	0.9	39
54	Numerical Simulation of Modified Compact Tension Test Depicting of Experimental Measurement by ARAMIS. Key Engineering Materials, 2014, 627, 277-280.	0.4	3

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55	Determining fracture energy parameters of concrete from the modified compact tension test. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 383-393.	0.9	13
56	A local correspondence principle for mode shapes in structural dynamics. <i>Mechanical Systems and Signal Processing</i> , 2014, 45, 91-104.	8.0	49
57	Obtaining S-N curves from crack growth curves: an alternative to self-similarity. <i>International Journal of Fracture</i> , 2014, 187, 159-172.	2.2	33
58	Comparative Analysis of the Plastic and Out-of-plane Constraint Zones in Cracked Plates. , 2014, 3, 1406-1411.		2
59	ProFatigue: A Software Program for Probabilistic Assessment of Experimental Fatigue Data Sets. <i>Procedia Engineering</i> , 2014, 74, 236-241.	1.2	48
60	Probabilistic Characterization of Glass under Different Type of Testing. , 2014, 3, 2111-2116.		12
61	The elastic and plastic constraint parameters for three-dimensional problems. <i>Engineering Fracture Mechanics</i> , 2014, 127, 83-96.	4.3	66
62	Stress relaxation behaviors of articular cartilages in porcine temporomandibular joint. <i>Journal of Biomechanics</i> , 2014, 47, 1582-1587.	2.1	17
63	Relaxation modulus-complex modulus interconversion for linear viscoelastic materials. <i>Mechanics of Time-Dependent Materials</i> , 2013, 17, 465-479.	4.4	14
64	Dynamic compressive properties of articular cartilages in the porcine temporomandibular joint. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 23, 62-70.	3.1	16
65	Local unified probabilistic model for fatigue crack initiation and propagation: Application to a notched geometry. <i>Engineering Structures</i> , 2013, 52, 394-407.	5.3	73
66	The region-dependent dynamic properties of porcine temporomandibular joint disc under unconfined compression. <i>Journal of Biomechanics</i> , 2013, 46, 845-848.	2.1	15
67	Maximum likelihood estimation for the three-parameter Weibull cdf of strength in presence of concurrent flaw populations. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1721-1727.	5.7	19
68	Using a statistical model for the analysis of the influence of the type of matrix carbon-epoxy composites on the fatigue delamination under modes I and II of fracture. <i>International Journal of Fatigue</i> , 2013, 56, 54-59.	5.7	13
69	The effective-thickness concept in laminated-glass elements under static loading. <i>Engineering Structures</i> , 2013, 56, 1092-1102.	5.3	16
70	Comparación entre el comportamiento mecánico a tracción, fractura y fatiga de armaduras de refuerzo fabricadas con distintos tipos de acero. <i>Materiales De Construccion</i> , 2013, 63, 433-447.	0.7	2
71	Influence of the Support Conditions in the Modal Parameters of a Cantilever Beam. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2013, , 335-341.	0.5	0
72	Stochastic Model for Damage Accumulation in Rubble-Mound Breakwaters Based on Compatibility Conditions and the Central Limit Theorem. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2012, 138, 451-463.	1.2	15

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73	A procedure to derive probabilistic fatigue crack propagation data. International Journal of Structural Integrity, 2012, 3, 158-183.	3.3	37
74	Probabilistic assessment of fatigue initiation data on highly crosslinked ultrahigh molecular weight polyethylenes. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 15, 190-198.	3.1	8
75	Probabilistic Fatigue Assessment of a Notched Detail Taking Into Account Mean Stress Effects. Journal of Pressure Vessel Technology, Transactions of the ASME, 2012, 134, .	0.6	4
76	Checking the fatigue limit from thermographic techniques by means of a probabilistic model of the epsilon-N field. International Journal of Fatigue, 2012, 39, 109-115.	5.7	20
77	Rainflow analysis in Coastal Engineering using switching second order Markov models. Applied Mathematical Modelling, 2012, 36, 4286-4303.	4.2	5
78	Influence of the principal tensile stresses on delamination fracture mechanisms and their associated morphology for different loading modes in carbon/epoxy composites. Composites Part B: Engineering, 2012, 43, 1676-1680.	12.0	21
79	On exact and approximated formulations for scaling-mode shapes in operational modal analysis by mass and stiffness change. Journal of Sound and Vibration, 2012, 331, 622-637.	3.9	47
80	Estimating the S-N Field From Strain-Lifetime Curves. Strain, 2011, 47, e93.	2.4	8
81	Viscoelastic Characterisation of the Temporomandibular Joint Disc in Bovines. Strain, 2011, 47, 188-193.	2.4	12
82	Influence of Temperature on the Fatigue Behaviour of Glass Fibre Reinforced Polypropylene. Strain, 2011, 47, 222-226.	2.4	10
83	Study of the interconversion between viscoelastic behaviour functions of PMMA. Mechanics of Time-Dependent Materials, 2011, 15, 169-180.	4.4	24
84	Influence of the matrix constituent on mode I and mode II delamination toughness in fiber-reinforced polymer composites under cyclic fatigue. Mechanics of Materials, 2011, 43, 62-67.	3.2	19
85	Influence of the Matrix Type on the Mode I Fracture of Carbon-Epoxy Composites Under Dynamic Delamination. Experimental Mechanics, 2011, 51, 293-301.	2.0	17
86	Non-linear Viscoelastic Model for Behaviour Characterization of Temporomandibular Joint Discs. Experimental Mechanics, 2011, 51, 1435-1440.	2.0	26
87	Influence of the t33-stress on the 3-D stress state around corner cracks in an elastic plate. Engineering Fracture Mechanics, 2011, 78, 412-427.	4.3	41
88	Experimental characterization and modelization of the relaxation and complex moduli of a flexible adhesive. Materials & Design, 2011, 32, 2783-2796.	5.1	22
89	Deriving the primary cumulative distribution function of fracture stress for brittle materials from 3- and 4-point bending tests. Journal of the European Ceramic Society, 2011, 31, 451-460.	5.7	35
90	An iterative method to obtain the specimen-independent three-parameter Weibull distribution of strength from bending tests. Procedia Engineering, 2011, 10, 1414-1419.	1.2	11

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109	A statistical model for crack growth based on tension and compression Wöhler fields. Engineering Fracture Mechanics, 2008, 75, 4439-4449.	4.3	7
110	A general model for fatigue damage due to any stress history. International Journal of Fatigue, 2008, 30, 150-164.	5.7	38
111	A critical comparison of two models for assessment of fatigue data. International Journal of Fatigue, 2008, 30, 45-57.	5.7	28
112	A general regression model for statistical analysis of strain-life fatigue data. Materials Letters, 2008, 62, 3639-3642.	2.6	34
113	Interlaminar crack initiation and growth under modes I and II in a carbon-fibre epoxy composite subjected to fatigue. WIT Transactions on the Built Environment, 2008, , .	0.0	0
114	Fatigue behaviour of hot rolled reinforcing bars of austenitic and duplex stainless steels. Materials Science and Technology, 2007, 23, 145-150.	1.6	59
115	Evolution of the Impact Strength of Carbon Fiber-reinforced PEI Following Exposure to Mechanical, Hygrothermal and Hygrothermomechanical Aging. Journal of Composite Materials, 2007, 41, 2337-2346.	2.4	3
116	A fatigue model with local sensitivity analysis. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 149-168.	3.4	36
117	Some fatigue damage measures for longitudinal elements based on the Wohler field. Fatigue and Fracture of Engineering Materials and Structures, 2007, 30, 1063-1075.	3.4	8
118	A Parametric Lifetime Model for the Prediction of High-Cycle Fatigue Based on Stress Level and Amplitude. Fatigue and Fracture of Engineering Materials and Structures, 2006, 29, 1031-1038.	3.4	23
119	Specimen length effect on parameter estimation in modelling fatigue strength by Weibull distribution. International Journal of Fatigue, 2006, 28, 1047-1058.	5.7	55
120	A probabilistic design model proposal for structural glass plates. Pollack Periodica, 2006, 1, 61-69.	0.4	2
121	The Lateral Constraint Index as a New Factor to Assess the Influence of the Specimen Thickness. , 2006, , 377-378.		1
122	Comparative Analysis of two Models for Evaluating Fatigue Data. , 2006, , 183-184.		0
123	Design of a composite beam using the failure probability-safety factor method. International Journal for Numerical Methods in Engineering, 2005, 62, 1148-1182.	2.8	4
124	A Design Model for Glass Elements Based on the Statistical Distribution of Crack Sizes. Key Engineering Materials, 2004, 264-268, 1855-1858.	0.4	1
125	Strength Characterization of Glass by Means of the Statistical Theory of Confounded Data. Key Engineering Materials, 2004, 264-268, 1923-1926.	0.4	1
126	Design and sensitivity analysis using the probability-safety-factor method. An application to retaining walls. Structural Safety, 2004, 26, 159-179.	5.3	25

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127	A General Method for Local Sensitivity Analysis With Application to Regression Models and Other Optimization Problems. <i>Technometrics</i> , 2004, 46, 430-444.	1.9	64
128	Mechanical properties and corrosion behaviour of stainless steel reinforcing bars. <i>Journal of Materials Processing Technology</i> , 2003, 143-144, 134-137.	6.3	48
129	Influence of the Damage Sequence in the Mechanical Strength of a Composite Material of Pei Reinforced with Woven Carbon-Fabric. A Statistical Analysis. <i>Advanced Composites Letters</i> , 2003, 12, 096369350301200.	1.3	1
130	Computing failure probabilities. Applications to reliability analysis. <i>Reliability Engineering and System Safety</i> , 2002, 77, 131-141.	8.9	2
131	Dynamic fracture toughness measurements in composites by instrumented Charpy testing: influence of aging. <i>Composites Science and Technology</i> , 2002, 62, 1315-1325.	7.8	32
132	Characterization of glass defects. <i>Journal of Materials Science Letters</i> , 2002, 21, 109-111.	0.5	3
133	A general regression model for lifetime evaluation and prediction. <i>International Journal of Fracture</i> , 2001, 107, 117-137.	2.2	77
134	On fitting a fatigue model to data. <i>International Journal of Fatigue</i> , 1999, 21, 97-106.	5.7	54
135	Updating inverses in matrix analysis of structures. , 1998, 43, 1479-1504.		6
136	Comparative statistical analysis of the fatigue of composites under different modes of loading. <i>Journal of Materials Science</i> , 1997, 32, 6495-6503.	3.7	3
137	Mechanical properties of SMC-35 after prolonged exposure to the atmosphere. <i>Composites</i> , 1994, 25, 891-894.	0.7	6
138	Discussion of "Effect of Length on Fatigue Life of Long, Thin, Continuous Components" by J. L. Bogdanoff and F. Kozin (July, 1989, Vol. 115, No. 7). <i>Journal of Engineering Mechanics - ASCE</i> , 1990, 116, 2580-2581.	2.9	0
139	Statistical Models for Analysis of Fatigue Life of Long Elements. <i>Journal of Engineering Mechanics - ASCE</i> , 1990, 116, 1036-1049.	2.9	19
140	On the Path and Area J -Integral Components and their Relationship to the Out-of-Plane Constraint in Elastic Cracked Plates. <i>Key Engineering Materials</i> , 0, 417-418, 421-424.	0.4	1
141	Arcan-Richard Specimens: Is there a Pure Shear Mode?. <i>Key Engineering Materials</i> , 0, 452-453, 345-348.	0.4	0
142	Evaluation of Concrete Fatigue Measurement Using Standard and Non-Linear Regression Model. <i>Applied Mechanics and Materials</i> , 0, 121-126, 2726-2729.	0.2	4
143	Contrast of a Probabilistic Design Model for Laminated Glass Plates. <i>Materials Science Forum</i> , 0, 730-732, 501-506.	0.3	7
144	Analysis of Compressive Properties of Porcine Temporomandibular Joint Disc. <i>Key Engineering Materials</i> , 0, 592-593, 354-357.	0.4	0

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145	Thermographic Determination Methodology: Application on Fatigue Limit of AL 2024 for R=-1. Key Engineering Materials, 0, 577-578, 477-480.	0.4	1
146	Comparison of Fracture Energy Values Obtained from 3PB, WST and CT Test Configurations. Advanced Materials Research, 0, 969, 89-92.	0.3	3
147	Evaluation of Conventional Al 2024 Fatigue Limit in Fatigue Test Using Thermographic Measurement: Effect of Frequency. Advanced Materials Research, 0, 891-892, 1308-1313.	0.3	0
148	Probabilistic Weibull Methodology for Fracture Prediction of Brittle and Ductile Materials. Applied Mechanics and Materials, 0, 784, 443-451.	0.2	19