

Jaime Dominguez

List of Publications by Year in descending order

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145
papers

2,805
citations

172386

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148
all docs

148
docs citations

148
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear solutions for the steady state oscillations of a clamped-free rotating beam. <i>European Journal of Mechanics, A/Solids</i> , 2022, 91, 104413.	2.1	5
2	Fatigue behaviour of PBF additive manufactured Ti6Al4V alloy after shot and laser peening. <i>International Journal of Fatigue</i> , 2022, 154, 106536.	2.8	39
3	A fretting fatigue model based on self-steered cracks. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 117, 103144.	2.1	8
4	3D contact effects in fretting fatigue tests. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 118, 103260.	2.1	6
5	Elastic Modulus of Woven Bone: Correlation with Evolution of Porosity and X-ray Greyscale. <i>Annals of Biomedical Engineering</i> , 2021, 49, 180-190.	1.3	2
6	Data-Driven Computational Simulation in Bone Mechanics. <i>Annals of Biomedical Engineering</i> , 2021, 49, 407-419.	1.3	6
7	Analytical and numerical study of the influence of different support types in the nonlinear vibrations of beams. <i>European Journal of Mechanics, A/Solids</i> , 2021, 85, 104113.	2.1	10
8	Mechanobiology of Bone Consolidation During Distraction Osteogenesis: Bone Lengthening Vs. Bone Transport. <i>Annals of Biomedical Engineering</i> , 2021, 49, 1209-1221.	1.3	7
9	Mechanical Influence of Surrounding Soft Tissue on Bone Regeneration Processes: A Bone Lengthening Study. <i>Annals of Biomedical Engineering</i> , 2021, 49, 642-652.	1.3	7
10	Self-adaptive diagnostic of radial fast-ion loss measurements on the ASDEX Upgrade tokamak (invited). <i>Review of Scientific Instruments</i> , 2021, 92, 053538.	0.6	3
11	Structural optimization of 3D-printed patient-specific ceramic scaffolds for in vivo bone regeneration in load-bearing defects. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 121, 104613.	1.5	16
12	Optimal shot peening residual stress profile for fatigue. <i>Theoretical and Applied Fracture Mechanics</i> , 2021, 116, 103109.	2.1	5
13	Experimental and numerical analysis of fatigue cracks emanating from internal defects in Ti6Al4V SLM. <i>Procedia Structural Integrity</i> , 2021, 34, 121-128.	0.3	4
14	Effect of shot peening residual stresses and surface roughness on fretting fatigue strength of Al 7075-T651. <i>Tribology International</i> , 2020, 142, 106004.	3.0	63
15	Fatigue and fracture analysis of a seven-wire stainless steel strand under axial and bending loads. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 149-161.	1.7	23
16	Comparison of the viscoelastic properties of human abdominal and breast adipose tissue and its incidence on breast reconstruction surgery. A pilot study. <i>Clinical Biomechanics</i> , 2020, 71, 37-44.	0.5	6
17	Numerical analysis of toroidal voids as stress relievers in shrink-fitted shafts. <i>Tribology International</i> , 2020, 143, 105996.	3.0	9
18	Real-Time Wireless Platform for In Vivo Monitoring of Bone Regeneration. <i>Sensors</i> , 2020, 20, 4591.	2.1	6

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19	A multiscale data-driven approach for bone tissue biomechanics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 368, 113136.	3.4	14
20	Effect of surface treatment on the fatigue strength of additive manufactured Ti6Al4V alloy. <i>Frattura Ed Integrita Strutturale</i> , 2020, 14, 337-344.	0.5	16
21	Estimation of the opening load under variable amplitude loading. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 2194-2203.	1.7	3
22	Fretting-Fatigue Analysis of Shot-Peened Al 7075-T651 Test Specimens. <i>Metals</i> , 2019, 9, 586.	1.0	22
23	Comparison of methods for assigning the material properties of the distraction callus in computational models. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3227.	1.0	5
24	New fatigue device for testing cables: Design and results. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 1826-1837.	1.7	10
25	First measurements of a magnetically driven fast-ion loss detector on ASDEX Upgrade. <i>Journal of Instrumentation</i> , 2019, 14, C11005-C11005.	0.5	6
26	On the prediction of the crack initiation path in fretting fatigue. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 99, 140-146.	2.1	14
27	Multiscale Characterisation of Cortical Bone Tissue. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5228.	1.3	4
28	Comparison of different constitutive models to characterize the viscoelastic properties of human abdominal adipose tissue. A pilot study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 80, 293-302.	1.5	25
29	Nonlinear modelling and simulation of vibrocompaction processes. <i>International Journal of Non-Linear Mechanics</i> , 2018, 102, 101-111.	1.4	6
30	Simulation of thermal cycle aging process on fiber-reinforced polymers by extended finite element method. <i>Journal of Composite Materials</i> , 2018, 52, 1947-1958.	1.2	3
31	Internal voids as a stress reliever and palliative in fretting fatigue. <i>Procedia Engineering</i> , 2018, 213, 846-855.	1.2	3
32	Histological study of the docking site after bone transport. Temporal evolution in a sheep model. <i>Injury</i> , 2018, 49, 1987-1992.	0.7	8
33	Voids as stress relievers and a palliative in fretting. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2018, 41, 2475-2484.	1.7	12
34	Comparison of the volumetric composition of lamellar bone and the woven bone of calluses. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2018, 232, 682-689.	1.0	4
35	First measurements of a scintillator based fast-ion loss detector near the ASDEX Upgrade divertor. <i>Review of Scientific Instruments</i> , 2018, 89, 101106.	0.6	12
36	Mechanical characterization via nanoindentation of the woven bone developed during bone transport. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 74, 236-244.	1.5	23

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37	Effect of freezing storage time on the elastic and viscous properties of the porcine TMJ disc. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 314-319.	1.5	8
38	Nucleation and early crack path in fretting fatigue. International Journal of Fatigue, 2017, 100, 602-610.	2.8	32
39	Study of the Contribution of Nonlinear Normal Modes (NNMs) in Large Amplitude Oscillations of Simply Supported Beams. Procedia Engineering, 2017, 199, 625-630.	1.2	0
40	Non-linear vibrating systems excited by a nonideal energy source with a large slope characteristic. Mechanical Systems and Signal Processing, 2017, 96, 366-384.	4.4	8
41	Analysis of fretting fatigue initial crack path in Al7075-T651 using cylindrical contact. Tribology International, 2017, 108, 87-94.	3.0	38
42	Limit cycles in nonlinear vibrating systems excited by a nonideal energy source with a large slope characteristic. Nonlinear Dynamics, 2017, 87, 1377-1391.	2.7	6
43	A fast feedback controlled magnetic drive for the ASDEX Upgrade fast-ion loss detectors. Review of Scientific Instruments, 2016, 87, 11E705.	0.6	8
44	Two dimensional versus three dimensional modelling in fretting fatigue life prediction. Journal of Strain Analysis for Engineering Design, 2016, 51, 109-117.	1.0	21
45	Histological evolution of the regenerate during bone transport: an experimental study in sheep. Injury, 2016, 47, S7-S14.	0.7	11
46	Model of the distraction callus tissue behavior during bone transport based in experiments in vivo. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 61, 419-430.	1.5	20
47	Estimations of fatigue life and variability under random loading in aluminum Al-2024T351 using strip yield models from NASGRO. International Journal of Fatigue, 2016, 91, 414-422.	2.8	26
48	Analysis of initial crack path in fretting fatigue. Frattura Ed Integrita Strutturale, 2016, 10, 38-45.	0.5	3
49	Crack Density Evaluation in Carbon Fibre Reinforced Polymers Aged by Thermal Cycling. Praktische Metallographie/Practical Metallography, 2016, 53, 125-143.	0.1	0
50	A polynomial hyperelastic model for the mixture of fat and glandular tissue in female breast. International Journal for Numerical Methods in Biomedical Engineering, 2015, 31, e02723.	1.0	5
51	In Vivo Gait Analysis During Bone Transport. Annals of Biomedical Engineering, 2015, 43, 2090-2100.	1.3	21
52	On the Use of NASGRO Software to Estimate Fatigue Crack Growth under Variable Amplitude Loading in Aluminium Alloy 2024-T351. Procedia Engineering, 2015, 101, 302-311.	1.2	11
53	In Vivo Mechanical Characterization of the Distraction Callus During Bone Consolidation. Annals of Biomedical Engineering, 2015, 43, 2663-2674.	1.3	30
54	Distraction osteogenesis device to estimate the axial stiffness of the callus in Vivo. Medical Engineering and Physics, 2015, 37, 969-978.	0.8	21

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55	Comparison of two multiaxial fatigue models applied to dental implants. <i>Frattura Ed Integrita Strutturale</i> , 2015, 9, 415-426.	0.5	1
56	Fracture mechanics approach to fretting fatigue behaviour of coated aluminium alloy components. <i>Journal of Strain Analysis for Engineering Design</i> , 2014, 49, 66-75.	1.0	7
57	Biomechanical design of Less Invasive Stabilization System femoral plates: Computational evaluation of the fracture environment. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 1043-1052.	1.0	8
58	Life Assessment in Fretting Fatigue. <i>Key Engineering Materials</i> , 2014, 618, 99-122.	0.4	2
59	Explicit equations for the half-plane sub-surface stress field under a flat rounded contact. <i>Journal of Strain Analysis for Engineering Design</i> , 2014, 49, 562-570.	1.0	10
60	Effect of the model's geometry in fretting fatigue life prediction. <i>Frattura Ed Integrita Strutturale</i> , 2014, 8, 109-117.	0.5	1
61	Fatigue life estimation in dental implants. <i>Engineering Fracture Mechanics</i> , 2014, 123, 34-43.	2.0	25
62	3D vs. 2D fatigue crack initiation and propagation in notched plates. <i>International Journal of Fatigue</i> , 2014, 58, 40-46.	2.8	23
63	On the application of a micromechanical small fatigue crack growth model to predict fretting fatigue life in AA7075-T6 under spherical contact. <i>Tribology International</i> , 2014, 76, 6-13.	3.0	6
64	A model to predict fretting fatigue life including residual stresses. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 73, 144-151.	2.1	32
65	Effect of non-uniform thickness of samples in stress relaxation tests under unconfined compression of samples of articular discs. <i>Journal of Biomechanics</i> , 2014, 47, 1526-1530.	0.9	5
66	A bone remodelling model including the effect of damage on the steering of BMUs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 32, 99-112.	1.5	18
67	Explicit equations for sub-surface stress field in plane contacts. <i>International Journal of Mechanical Sciences</i> , 2013, 67, 53-58.	3.6	8
68	Analysis of the effect of a textured surface on fretting fatigue. <i>Wear</i> , 2013, 305, 23-35.	1.5	31
69	Elastic-plastic analysis of a punch and its equivalent notch under fretting conditions. <i>International Journal of Mechanical Sciences</i> , 2013, 66, 120-131.	3.6	4
70	Two-parameter fatigue crack growth driving force: Successive blocking of the monotonic and cyclic plastic zones at microstructural barriers. <i>International Journal of Fatigue</i> , 2013, 46, 27-34.	2.8	17
71	Analytical solution for a cylindrical contact with reverse slip. <i>Journal of Strain Analysis for Engineering Design</i> , 2013, 48, 189-197.	1.0	10
72	Numerical simulation of a relaxation test designed to fit a quasi-linear viscoelastic model for temporomandibular joint discs. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 190-199.	1.0	11

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73	In-Silico Models as a Tool for the Design of Specific Treatments: Applications in Bone Regeneration. Lecture Notes in Computational Vision and Biomechanics, 2012, , 1-17.	0.5	3
74	A new method for obtaining the stress field in plane contacts. International Journal of Solids and Structures, 2012, 49, 3659-3665.	1.3	16
75	A lattice-based approach to model distraction osteogenesis. Journal of Biomechanics, 2012, 45, 2736-2742.	0.9	13
76	Experimental results in fretting fatigue with shot and laser peened Al 7075-T651 specimens. International Journal of Fatigue, 2012, 40, 143-153.	2.8	70
77	Influence of the Initiation Length in Predictions of Life in Fretting Fatigue. Strain, 2011, 47, e283.	1.4	7
78	A general model to estimate life in notches and fretting fatigue. Engineering Fracture Mechanics, 2011, 78, 1590-1601.	2.0	50
79	Effect of porosity and mineral content on the elastic constants of cortical bone: a multiscale approach. Biomechanics and Modeling in Mechanobiology, 2011, 10, 309-322.	1.4	47
80	Three-Dimensional Simulation of Mandibular Distraction Osteogenesis: Mechanobiological Analysis. Annals of Biomedical Engineering, 2011, 39, 35-43.	1.3	20
81	Fretting fatigue life prediction using the extended finite element method. International Journal of Mechanical Sciences, 2011, 53, 217-225.	3.6	39
82	Effect of the fixator stiffness on the young regenerate bone after bone transport: Computational approach. Journal of Biomechanics, 2011, 44, 917-923.	0.9	26
83	Numerical simulation of bone remodelling around dental implants. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 897-906.	1.0	15
84	Biomechanical response of a mandible in a patient affected with hemifacial microsomia before and after distraction osteogenesis. Medical Engineering and Physics, 2010, 32, 860-866.	0.8	13
85	Growth mixture model of distraction osteogenesis: effect of pre-traction stresses. Biomechanics and Modeling in Mechanobiology, 2010, 9, 103-115.	1.4	34
86	Brittle fracture of a crane hook. Engineering Failure Analysis, 2010, 17, 38-47.	1.8	11
87	On the estimation of fatigue life in notches differentiating the phases of crack initiation and propagation. Fatigue and Fracture of Engineering Materials and Structures, 2010, 33, 22-36.	1.7	20
88	An Interspecies Computational Study on Limb Lengthening. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 224, 1245-1256.	1.0	18
89	The mechanical behaviour of a symmetrical punch with compound curvature. Journal of Strain Analysis for Engineering Design, 2010, 45, 209-222.	1.0	8
90	Analysis of crack evolution in fretting fatigue with spherical contact. Journal of Strain Analysis for Engineering Design, 2009, 44, 503-515.	1.0	6

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91	A bone remodelling model including the directional activity of BMUs. Biomechanics and Modeling in Mechanobiology, 2009, 8, 111-127.	1.4	33
92	Modeling distraction osteogenesis: analysis of the distraction rate. Biomechanics and Modeling in Mechanobiology, 2009, 8, 323-335.	1.4	45
93	A micromechanical model for small fatigue crack growth: an approach based on two threshold conditions. Fatigue and Fracture of Engineering Materials and Structures, 2009, 32, 515-524.	1.7	19
94	Fatigue failure assessment under stress gradients using small crack fatigue concepts. Engineering Failure Analysis, 2009, 16, 2646-2657.	1.8	9
95	On the role of bone damage in calcium homeostasis. Journal of Theoretical Biology, 2008, 254, 704-712.	0.8	28
96	Three-dimensional formulation of rigid-flexible multibody systems with flexible beam elements. Multibody System Dynamics, 2008, 20, 1-28.	1.7	60
97	On the use of multiaxial fatigue criteria for fretting fatigue life assessment. International Journal of Fatigue, 2008, 30, 32-44.	2.8	118
98	On the estimation of microstructural effects in the near-threshold fatigue of small cracks. Journal of Strain Analysis for Engineering Design, 2008, 43, 337-347.	1.0	9
99	Formulation of Three-Dimensional Rigid-Flexible Multibody Systems. , 2007, , 1091.		0
100	Influence of R ratio and stick zone eccentricity on the prediction of the fretting fatigue limit with spherical contact. International Journal of Fatigue, 2007, 29, 1208-1219.	2.8	11
101	Characterization of the contact between a punch and a half-infinite substrate in a fretting situation. International Journal of Mechanical Sciences, 2007, 49, 608-621.	3.6	9
102	Application of fracture mechanics to estimate fretting fatigue endurance curves. Engineering Fracture Mechanics, 2007, 74, 2168-2186.	2.0	43
103	Numerical estimation of bone density and elastic constants distribution in a human mandible. Journal of Biomechanics, 2007, 40, 828-836.	0.9	72
104	Prediction of the crack extension under fretting wear loading conditions. International Journal of Fatigue, 2006, 28, 1769-1779.	2.8	32
105	Propagation in fretting fatigue from a surface defect. Tribology International, 2006, 39, 1149-1157.	3.0	36
106	Stability and Bifurcation Analysis of a Spinning Space Tether. Journal of Nonlinear Science, 2006, 16, 507-542.	1.0	11
107	Numerical and experimental analysis of fatigue crack growth under random loading. International Journal of Fatigue, 2005, 27, 878-890.	2.8	12
108	A micromechanical approach to fatigue in small notches*. Fatigue and Fracture of Engineering Materials and Structures, 2005, 28, 1035-1045.	1.7	19

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109	Analysis of the elastic punch-substrate contact under fretting: Monotonic and cyclic loading of the punch. <i>International Journal of Mechanical Sciences</i> , 2005, 47, 388-417.	3.6	4
110	Stability and Bifurcation Analysis of a Modified Geometrically Nonlinear Orthotropic Jeffcott Model with Internal Damping. <i>Nonlinear Dynamics</i> , 2005, 42, 137-163.	2.7	5
111	An Internal Damping Model for the Absolute Nodal Coordinate Formulation. <i>Nonlinear Dynamics</i> , 2005, 42, 347-369.	2.7	82
112	Study of the Geometric Stiffening Effect: Comparison of Different Formulations. <i>Multibody System Dynamics</i> , 2004, 11, 321-341.	1.7	53
113	Efficient Evaluation of the Elastic Forces and the Jacobian in the Absolute Nodal Coordinate Formulation. <i>Nonlinear Dynamics</i> , 2004, 35, 313-329.	2.7	118
114	Initiation criteria in fretting fatigue with spherical contact. <i>International Journal of Fatigue</i> , 2004, 26, 1253-1262.	2.8	16
115	Predicting the fretting fatigue limit for spherical contact. <i>Engineering Failure Analysis</i> , 2004, 11, 727-736.	1.8	16
116	Dynamic Analysis of a Light Structure in Outer Space: Short Electrodynamic Tether. <i>Multibody System Dynamics</i> , 2003, 10, 125-146.	1.7	11
117	Describing Rigid-Flexible Multibody Systems Using Absolute Coordinates. <i>Nonlinear Dynamics</i> , 2003, 34, 75-94.	2.7	76
118	The influence of underlying tension on partial slip in complete and nearly complete contacts. <i>International Journal of Mechanical Sciences</i> , 2003, 45, 757-773.	3.6	11
119	Reference motion in deformable bodies under rigid body motion and vibration. Part I: theory. <i>Journal of Sound and Vibration</i> , 2003, 264, 1045-1056.	2.1	7
120	Reference motion in deformable bodies under rigid body motion and vibration. Part II: evaluation of the coefficient of restitution for impacts. <i>Journal of Sound and Vibration</i> , 2003, 264, 1057-1072.	2.1	5
121	An experimental analysis of fatigue crack growth under random loading. <i>International Journal of Fatigue</i> , 2003, 25, 597-608.	2.8	28
122	The effect of a corner radius on an asymptotic solution to the fretting of complete contacts including the plastic process zone. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2003, 26, 223-228.	1.7	1
123	A procedure for estimating the total life in fretting fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2003, 26, 459-468.	1.7	54
124	On the estimation of fatigue failure under fretting conditions using notch methodologies. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2003, 26, 469-478.	1.7	38
125	Compact formulation for modelling cracks in infinite solids using distributed dislocations. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002, 82, 81-92.	0.7	12
126	Fretting fatigue in a spherical contact. <i>Journal of Strain Analysis for Engineering Design</i> , 2002, 37, 469-478.	1.0	14

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127	Title is missing!. Multibody System Dynamics, 2002, 7, 209-228.	1.7	3
128	Fatigue crack growth threshold conditions at notches. Part I: theory. Fatigue and Fracture of Engineering Materials and Structures, 2000, 23, 113-121.	1.7	59
129	Fatigue crack growth threshold conditions at notches. Part II: generalization and application to experimental results. Fatigue and Fracture of Engineering Materials and Structures, 2000, 23, 123-128.	1.7	31
130	A new numerical method for the dynamic analysis of impact loads in flexible beams. Mechanism and Machine Theory, 1999, 34, 765-780.	2.7	9
131	A statistical model for fatigue crack growth under random loads including retardation effects. Engineering Fracture Mechanics, 1999, 62, 351-369.	2.0	22
132	Cyclic variations in friction forces and contact stresses during fretting fatigue. Wear, 1998, 218, 43-53.	1.5	29
133	ON THE USE OF THE STRIP-YIELD MODEL TO PREDICT FATIGUE CRACK GROWTH UNDER IRREGULAR LOADING. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 759-770.	1.7	10
134	CALCULATION OF THE STRESS INTENSITY FACTOR AND ESTIMATION OF ITS ERROR BY A SHAPE SENSITIVITY ANALYSIS. Fatigue and Fracture of Engineering Materials and Structures, 1997, 20, 813-828.	1.7	11
135	Effect of load histories on scatter of fatigue crack growth in aluminum alloy 2024-T351. Engineering Fracture Mechanics, 1997, 56, 65-76.	2.0	17
136	Geometrically non-linear formulation of flexible multibody systems in terms of beam elements: Geometric stiffness. Computers and Structures, 1996, 59, 1039-1050.	2.4	38
137	THE RANDOMNESS OF FATIGUE CRACK GROWTH UNDER CONSTANT-AMPLITUDE LOADS. Fatigue and Fracture of Engineering Materials and Structures, 1996, 19, 589-600.	1.7	13
138	Geometrically Nonlinear Formulations of Beams in Flexible Multibody Dynamics. Journal of Vibration and Acoustics, Transactions of the ASME, 1995, 117, 501-509.	1.0	89
139	Fatigue crack growth under variable amplitude loading. , 1994, , 955-997.		7
140	Effect of the loading spectrum and history length on fatigue life distribution under random loading. Engineering Fracture Mechanics, 1992, 42, 925-933.	2.0	11
141	A statistical approach to fatigue life predictions under random loading. International Journal of Fatigue, 1990, 12, 107-114.	2.8	15
142	Parametric analysis of gravity offshore structures: Part 1. Applied Ocean Research, 1981, 3, 98-101.	1.8	0
143	Parametric analysis of gravity offshore structures: Part 2. Applied Ocean Research, 1981, 3, 101-104.	1.8	2
144	Selecci3n de competencias en ciberseguridad para la formaci3n en la industria de defensa. Colecci3n Jornadas Y Congresos, 0, , .	0.0	0

#	ARTICLE	IF	CITATIONS
145	Time-Dependent Collagen Fibered Structure in the Early Distraction Callus: Imaging Characterization and Mathematical Modeling. <i>Annals of Biomedical Engineering</i> , 0, , .	1.3	0