

Josã© E Tarancã³n

List of Publications by Year in descending order

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26
papers

941
citations

516561

16
h-index

642610

23
g-index

27
all docs

27
docs citations

27
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	An Abaqus implementation of the extended finite element method. <i>Engineering Fracture Mechanics</i> , 2009, 76, 347-368.	2.0	283
2	Enhanced blending elements for XFEM applied to linear elastic fracture mechanics. <i>International Journal for Numerical Methods in Engineering</i> , 2009, 77, 126-148.	1.5	85
3	A recovery-type error estimator for the extended finite element method based on singular smooth stress field splitting. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 545-571.	1.5	84
4	Direction of crack propagation in a complete contact fretting-fatigue problem. <i>International Journal of Fatigue</i> , 2014, 58, 172-180.	2.8	49
5	Crack face contact in XFEM using a segment-to-segment approach. <i>International Journal for Numerical Methods in Engineering</i> , 2010, 82, 1424-1449.	1.5	48
6	Efficient Finite Element Methodology Based on Cartesian Grids: Application to Structural Shape Optimization. <i>Abstract and Applied Analysis</i> , 2013, 2013, 1-19.	0.3	45
7	Domain integral formulation for 3-D curved and non-planar cracks with the extended finite element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2013, 264, 129-144.	3.4	44
8	Numerical modelling of the mechanical behaviour of an osteon with microcracks. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 37, 109-124.	1.5	44
9	Homogenized stiffness matrices for mineralized collagen fibrils and lamellar bone using unit cell finite element models. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 437-449.	1.4	38
10	An Eulerian coordinate-based method for analysing the structural vibrations of a solid of revolution rotating about its main axis. <i>Journal of Sound and Vibration</i> , 2007, 306, 618-635.	2.1	30
11	Convergence of domain integrals for stress intensity factor extraction in 2D curved cracks problems with the extended finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2013, 94, 740-757.	1.5	30
12	Influence of the mineral staggering on the elastic properties of the mineralized collagen fibril in lamellar bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 42, 243-256.	1.5	28
13	Calculation of the critical energy release rate $G = \frac{1}{2} \sigma \epsilon$ the cement line in cortical bone combining experimental tests and finite element models. <i>Engineering Fracture Mechanics</i> , 2017, 184, 168-182.	2.0	27
14	Stochastic Monte Carlo simulations of the pantograph-catenary dynamic interaction to allow for uncertainties introduced during catenary installation. <i>Vehicle System Dynamics</i> , 2019, 57, 471-492.	2.2	21
15	Error estimation for the finite element evaluation of and in mixed-mode linear elastic fracture mechanics. <i>Finite Elements in Analysis and Design</i> , 2005, 41, 1079-1104.	1.7	18
16	A numerical methodology to assess the quality of the design velocity field computation methods in shape sensitivity analysis. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 59, 1725-1747.	1.5	16
17	A modal coordinate catenary model for the real-time simulation of the pantograph-catenary dynamic interaction. <i>Finite Elements in Analysis and Design</i> , 2019, 162, 1-12.	1.7	12
18	An improvement of the EDI method in linear elastic fracture mechanics by means of an a posteriori error estimator in G. <i>International Journal for Numerical Methods in Engineering</i> , 2004, 59, 533-558.	1.5	9

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19	Explicit expressions for the estimation of the elastic constants of lamellar bone as a function of the volumetric mineral content using a multi-scale approach. <i>Biomechanics and Modeling in Mechanobiology</i> , 2018, 17, 449-464.	1.4	8
20	Error estimation and h-adaptive refinement in the analysis of natural frequencies. <i>Finite Elements in Analysis and Design</i> , 2001, 38, 137-153.	1.7	7
21	An a posteriori error estimator for the p- and hp-versions of the finite element method. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 62, 1-18.	1.5	7
22	Method for obtaining the modal properties of articulated trains equipped with independently rotating wheels. <i>Vehicle System Dynamics</i> , 2006, 44, 841-854.	2.2	5
23	Accurate Stress Recovery for the Two-Dimensional Fixed Grid Finite Element Method. , 0, , .		2
24	Comparación de esquemas de integración 3D para elementos enriquecidos en XFEM. <i>Revista UIS Ingenierías</i> , 2017, 15, 7-16.	0.1	0
25	USE OF A PBL-APPROACH TO DEVELOP AND TO ASSESS GENERIC COMPETENCES IN A MASTER'S DEGREE IN MECHANICAL ENGINEERING. , 2020, , .		0
26	An Augmented Lagrange Method to Solve Large Deformation Three-Dimensional Contact Problems. , 0, , .		0