# JosÃ© E TarancÃ³n

## List of Publications by Year
in descending order

| 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 | USE OF A PBL-APPROACH TO DEVELOP AND TO ASSESS GENERIC COMPETENCES IN A MASTER'S DEGREE IN MECHANICAL ENGINEERING. , 2020, , . | | 0 |
| 2 | Stochastic Monte Carlo simulations of the pantograph–catenary dynamic interaction to allow for uncertainties introduced during catenary installation. Vehicle System Dynamics, 2019, 57, 471-492. | 2.2 | 21 |
| 3 | A modal coordinate catenary model for the real-time simulation of the pantograph-catenary dynamic interaction. Finite Elements in Analysis and Design, 2019, 162, 1-12. | 1.7 | 12 |
| 4 | 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. Biomechanics and Modeling in Mechanobiology, 2018, 17, 449-464. | 1.4 | 8 |
| 5 | Calculation of the critical energy release rate $G_c$ of the cement line in cortical bone combining experimental tests and finite element models. Engineering Fracture Mechanics, 2017, 184, 168-182. | 2.0 | 27 |
| 6 | Comparación de esquemas de integración 3D para elementos enriquecidos en XFEM. Revista UIS Ingenierías, 2017, 15, 7-16. | 0.1 | 0 |
| 7 | Influence of the mineral staggering on the elastic properties of the mineralized collagen fibril in lamellar bone. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 42, 243-256. | 1.5 | 28 |
| 8 | Numerical modelling of the mechanical behaviour of an osteon with microcracks. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 109-124. | 1.5 | 44 |
| 9 | Homogenized stiffness matrices for mineralized collagen fibrils and lamellar bone using unit cell finite element models. Biomechanics and Modeling in Mechanobiology, 2014, 13, 437-449. | 1.4 | 38 |
| 10 | Direction of crack propagation in a complete contact fretting-fatigue problem. International Journal of Fatigue, 2014, 58, 172-180. | 2.8 | 49 |
| 11 | Convergence of domain integrals for stress intensity factor extraction in 2‐D curved cracks problems with the extended finite element method. International Journal for Numerical Methods in Engineering, 2013, 94, 740-757. | 1.5 | 30 |
| 12 | Domain integral formulation for 3-D curved and non-planar cracks with the extended finite element method. Computer Methods in Applied Mechanics and Engineering, 2013, 264, 129-144. | 3.4 | 44 |
| 13 | Efficient Finite Element Methodology Based on Cartesian Grids: Application to Structural Shape Optimization. Abstract and Applied Analysis, 2013, 2013, 1-19. | 0.3 | 45 |
| 14 | Crack face contact in X‐FEM using a segment‐to‐segment approach. International Journal for Numerical Methods in Engineering, 2010, 82, 1424-1449. | 1.5 | 48 |
| 15 | Enhanced blending elements for XFEM applied to linear elastic fracture mechanics. International Journal for Numerical Methods in Engineering, 2009, 77, 126-148. | 1.5 | 85 |
| 16 | An Abaqus implementation of the extended finite element method. Engineering Fracture Mechanics, 2009, 76, 347-368. | 2.0 | 283 |
| 17 | A recovery‐type error estimator for the extended finite element method based on *singular*+*smooth* stress field splitting. International Journal for Numerical Methods in Engineering, 2008, 76, 545-571. | 1.5 | 84 |
| 18 | An Eulerian coordinate-based method for analysing the structural vibrations of a solid of revolution rotating about its main axis. Journal of Sound and Vibration, 2007, 306, 618-635. | 2.1 | 30 |

| # | Article | IF | Citations |
|---|---------|----|----|
| 19 | Method for obtaining the modal properties of articulated trains equipped with independently rotating wheels. Vehicle System Dynamics, 2006, 44, 841-854. | 2.2 | 5 |
| 20 | Ana posteriorierror estimator for thep- andhp-versions of the finite element method. International Journal for Numerical Methods in Engineering, 2005, 62, 1-18. | 1.5 | 7 |
| 21 | Error estimation for the finite element evaluation of and in mixed-mode linear elastic fracture mechanics. Finite Elements in Analysis and Design, 2005, 41, 1079-1104. | 1.7 | 18 |
| 22 | An improvement of the EDI method in linear elastic fracture mechanics by means of ana posteriori error estimator inG. International Journal for Numerical Methods in Engineering, 2004, 59, 533-558. | 1.5 | 9 |
| 23 | A numerical methodology to assess the quality of the design velocity field computation methods in shape sensitivity analysis. International Journal for Numerical Methods in Engineering, 2004, 59, 1725-1747. | 1.5 | 16 |
| 24 | Error estimation and h-adaptive refinement in the analysis of natural frequencies. Finite Elements in Analysis and Design, 2001, 38, 137-153. | 1.7 | 7 |
| 25 | Accurate Stress Recovery for the Two-Dimensional Fixed Grid Finite Element Method. , 0, , . | | 2 |
| 26 | An Augmented Lagrange Method to Solve Large Deformation Three-Dimensional Contact Problems. , 0, , . | | 0 |