

Jose M Goicolea

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

780
citations

566801

15
h-index

525886

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41
all docs

41
docs citations

41
times ranked

725
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Consideration of nonlinear wheel-rail contact forces for dynamic vehicle-bridge interaction in high-speed railways. <i>Journal of Sound and Vibration</i> , 2013, 332, 1231-1251. | 2.1 | 127 |
| 2 | Relevance of a complete road surface description in vehicle-bridge interaction dynamics. <i>Engineering Structures</i> , 2013, 56, 466-476. | 2.6 | 53 |
| 3 | Mechanical characterisation of the human thoracic descending aorta: experiments and modelling. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2012, 15, 185-193. | 0.9 | 46 |
| 4 | Comparison of dynamic effects of high-speed traffic load on ballasted track using a simplified two-dimensional and full three-dimensional model. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2014, 228, 128-142. | 1.3 | 46 |
| 5 | A volumetric model for growth of arterial walls with arbitrary geometry and loads. <i>Journal of Biomechanics</i> , 2007, 40, 961-971. | 0.9 | 41 |
| 6 | Dynamic analysis of rigid and deformable multibody systems with penalty methods and energy-momentum schemes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2000, 188, 789-804. | 3.4 | 40 |
| 7 | Railway bridge damage detection using vehicle-based inertial measurements and apparent profile. <i>Engineering Structures</i> , 2017, 153, 421-442. | 2.6 | 40 |
| 8 | Finite element simulation of the simple tension test in metals. <i>Finite Elements in Analysis and Design</i> , 2006, 42, 1187-1197. | 1.7 | 38 |
| 9 | Conserving Properties in Constrained Dynamics of Flexible Multibody Systems. <i>Multibody System Dynamics</i> , 2000, 4, 225-244. | 1.7 | 31 |
| 10 | Bridge Damage Identification from Moving Load Induced Deflection Based on Wavelet Transform and Lipschitz Exponent. <i>International Journal of Structural Stability and Dynamics</i> , 2016, 16, 1550003. | 1.5 | 30 |
| 11 | Parametric Pushover Analysis on Elevated RC Pile-Cap Foundations for Bridges in Cohesionless Soils. <i>Journal of Bridge Engineering</i> , 2019, 24, . | 1.4 | 27 |
| 12 | On thermodynamically consistent constitutive equations for fiber-reinforced nonlinearly viscoelastic solids with application to biomechanics. <i>Mechanics Research Communications</i> , 2007, 34, 561-571. | 1.0 | 21 |
| 13 | Impact of the train-track-bridge system characteristics in the runnability of high-speed trains against crosswinds - Part I: Running safety. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2022, 224, 104974. | 1.7 | 20 |
| 14 | Factors influencing the mechanical behaviour of healthy human descending thoracic aorta. <i>Physiological Measurement</i> , 2010, 31, 1553-1565. | 1.2 | 19 |
| 15 | Title is missing!. <i>Multibody System Dynamics</i> , 2002, 7, 3-29. | 1.7 | 17 |
| 16 | A regularised continuum damage model based on the mesoscopic scale for soft tissue. <i>International Journal of Solids and Structures</i> , 2015, 58, 20-33. | 1.3 | 17 |
| 17 | Identification of a Human-Structure Interaction Model on an Ultra-Lightweight FRP Footbridge. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6654. | 1.3 | 16 |
| 18 | A computational procedure for prediction of ballasted track profile degradation under railway traffic loading. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2016, 230, 1812-1827. | 1.3 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Development of Practical Finite Element Models for Collapse of Reinforced Concrete Structures and Experimental Validation. Shock and Vibration, 2017, 2017, 1-9. | 0.3 | 15 |
| 20 | Experimental and numerical study on cable breakage equivalent force in cable-stayed structures consisting of low-relaxation seven-wire steel strands. Structures, 2020, 27, 595-606. | 1.7 | 13 |
| 21 | Influence of Shear Stress on In-Stent Restenosis: In Vivo Study Using 3D Reconstruction and Computational Fluid Dynamics. Revista Espanola De Cardiologia (English Ed), 2006, 59, 20-27. | 0.4 | 10 |
| 22 | Nonlinear Train-Bridge Lateral Interaction Using a Simplified Wheel-Rail Contact Method Within a Finite Element Framework. Journal of Computational and Nonlinear Dynamics, 2012, 7, . | 0.7 | 9 |
| 23 | Fully three-dimensional vehicle dynamics over rough pavement. Proceedings of the Institution of Civil Engineers: Transport, 2013, 166, 144-157. | 0.3 | 8 |
| 24 | Analytical and simplified models for dynamic analysis of short skew bridges under moving loads. Advances in Structural Engineering, 2019, 22, 2076-2088. | 1.2 | 8 |
| 25 | Linear and non-linear finite element error estimation based on assumed strain fields. International Journal for Numerical Methods in Engineering, 2002, 55, 413-429. | 1.5 | 5 |
| 26 | A methodology for analysing lateral coupled behavior of high speed railway vehicles and structures. IOP Conference Series: Materials Science and Engineering, 2010, 10, 012001. | 0.3 | 5 |
| 27 | Vibration analysis of short skew bridges due to railway traffic using analytical and simplified models. Procedia Engineering, 2017, 199, 3039-3046. | 1.2 | 2 |
| 28 | Evaluaci3n de acciones explosivas sobre estructuras de hormig3n armado mediante elementos finitos. Informes De La Construccion, 2015, 67, e095. | 0.1 | 2 |
| 29 | Dynamic Response Prediction of Lightweight Pedestrian Structures: Equivalent Crowd-Structure System. , 0, , . | | 1 |
| 30 | Lateral Dynamic Models for High-Speed Railway Bridges and Vehicles. IABSE Symposium Report, 2014, , . | 0.0 | 0 |
| 31 | An3lisis de accidentes severos en contenciones nucleares. Informes De La Construccion, 1992, 43, 79-95. | 0.1 | 0 |
| 32 | Dynamic Response of Footbridges in Eurocodes: Towards an Accurate Assessment of Human-Induced Vibrations. , 0, , . | | 0 |