Alberto Carnicero LÃ³pez

List of Publications by Year
in descending order

22 papers	560 citations	758635 12 h-index	676716 22 g-index
23 all docs	23 docs citations	23 times ranked	398 citing authors

#	Article	IF	Citations
1	The results of the pantographâ€“catenary interaction benchmark. Vehicle System Dynamics, 2015, 53, 412-435.	2.2	161
2	An approach based on the catenary equation to deal with static analysis of three dimensional cable structures. Engineering Structures, 2009, 31, 2162-2170.	2.6	65
3	Active control strategy on a catenaryâ€“pantograph validated model. Vehicle System Dynamics, 2013, 51, 554-569.	2.2	46
4	Influence of stiffness and contact modelling on catenaryâ€“pantograph system dynamics. Journal of Sound and Vibration, 2007, 299, 806-821.	2.1	45
5	Numerical simulation of wear-mechanism maps. Computational Materials Science, 2002, 25, 54-60.	1.4	39
6	Computation of the initial equilibrium of railway overheads based on the catenary equation. Engineering Structures, 2006, 28, 1387-1394.	2.6	38
7	A moving mesh method to deal with cable structures subjected to moving loads and its application to the catenaryâ€“pantograph dynamic interaction. Journal of Sound and Vibration, 2015, 349, 216-229.	2.1	28
8	A fatigue damage model for seismic response of RC structures. Computers and Structures, 2000, 78, 293-302.	2.4	24
9	Surface effects in atomistic mechanical simulations of Al nanocrystals. Physical Review B, 2009, 80, .	1.1	19
10	The influence of cable slackening on the stiffness computation of railway overheads. International Journal of Mechanical Sciences, 2008, 50, 1213-1223.	3.6	17
11	CANDY statement of methods. Vehicle System Dynamics, 2015, 53, 392-401.	2.2	14
12	Improvement of an additively manufactured subperiosteal implant structure design by finite elements based topological optimization. Scientific Reports, 2021, 11, 15390.	1.6	13
13	Civil structure condition assessment by a two-stage FE model update based on neural network enhanced power mode shapes and an adaptive roaming damage method. Engineering Structures, 2020, 207, 110234.	2.6	12
14	Elastic properties of natural single nanofibres. RSC Advances, 2014, 4, 11225.	1.7	10
15	A new approach to fitting the three-parameter Weibull distribution: An application to glass ceramics. Communications in Statistics - Theory and Methods, 2021, 50, 3403-3420.	0.6	7
16	Development of a current sensor based on active materials for high-voltage transmission systems. Smart Materials and Structures, 2006, 15, 563-570.	1.8	5
17	Simplified Model of Low Cycle Fatigue for RC Frames. Journal of Structural Engineering, 1999, 125, 1200-1202.	1.7	4
18	Real-time CO2 emissions estimation in Spain and application to the COVID-19 pandemic. Journal of Cleaner Production, 2021, 296, 126425.	4.6	4

#	Article	IF	Citations
19	A Geometry-Based Welding Distortion Prediction Tool. Materials, 2021, 14, 4789.	1.3	3
20	Modification of the Mechanical Properties of Coreâ€Shell Liquid Gallium Nanoparticles by Thermal Oxidation at Low Temperature. Particle and Particle Systems Characterization, 2021, 38, 2100141.	1.2	3
21	The Dependance on Mechanical Design in Railway Electrification: Focusing on the ac Perspective. IEEE Electrification Magazine, 2013, 1, 4-10.	1.8	2
22	Elemental Crack Advance assessment and verification for its use in LBB analysis. Nuclear Engineering and Design, 2020, 363, 110622.	0.8	1