Ernesto Garcia Vadillo

List of Publications by Year
in descending order

16 papers	**319** citations	933447 **10** h-index	940533 **16** g-index
16 all docs	**16** docs citations	**16** times ranked	**223** citing authors

#	Article	IF	Citations
1	Effect of sleeper distance on rail corrugation. Wear, 1998, 217, 140-145.	3.1	47
2	On the influence of conformity on wheel–rail rolling contact mechanics. Tribology International, 2016, 103, 647-667.	5.9	36
3	Rail corrugation development in high speed lines. Wear, 2011, 271, 2438-2447.	3.1	33
4	Influence of creep forces on the risk of derailment of railway vehicles. Vehicle System Dynamics, 2009, 47, 721-752.	3.7	31
5	A comprehensive method for the elastic calculation of the two-point wheel–rail contact. Vehicle System Dynamics, 2006, 44, 240-250.	3.7	30
6	Dynamic optimization of track components to minimize rail corrugation. Journal of Sound and Vibration, 2009, 319, 904-917.	3.9	29
7	A comprehensive track model for the improvement of corrugation models. Journal of Sound and Vibration, 2006, 293, 522-534.	3.9	28
8	A contact mechanics study of 3D frictional conformal contact. Tribology International, 2018, 119, 143-156.	5.9	17
9	A rational fraction polynomials model to study vertical dynamic wheel–rail interaction. Journal of Sound and Vibration, 2012, 331, 1844-1858.	3.9	15
10	Design of an optimised wheel profile for rail vehicles operating on two-track gauges. Vehicle System Dynamics, 2013, 51, 54-73.	3.7	14
11	Wheel–rail wear index prediction considering multiple contact patches. Wear, 2009, 267, 1100-1104.	3.1	10
12	On the study of train–track dynamic interactions caused by rail welds on discrete supported rails. Wear, 2014, 314, 291-298.	3.1	9
13	Modelling rail corrugation with specific-track parameters focusing on ballasted track and slab track. Vehicle System Dynamics, 2011, 49, 1733-1748.	3.7	6
14	Approximating the influence coefficients of non-planar elastic solids for conformal contact analysis. Tribology International, 2021, 154, 106671.	5.9	6
15	On the non-proportionality between wheel/rail contact forces and speed during wheelset passage over specific welds. Journal of Sound and Vibration, 2018, 413, 79-100.	3.9	5
16	Solution of the 3D-Helmholtz equation in exterior domains using spherical harmonic decomposition. Computers and Mathematics With Applications, 2012, 64, 2520-2543.	2.7	3