Aires ColaÃ§o

List of Publications by Year
in descending order

19 papers	341 citations	1040018 9 h-index	888047 17 g-index
19 all docs	19 docs citations	19 times ranked	205 citing authors

#	Article	IF	Citations
1	Hybrid soil-structure interaction approach for the assessment of vibrations in buildings due to railway traffic. Transportation Geotechnics, 2022, 32, 100691.	4.5	9
2	Simplified approach for ground reinforcement design to enhance critical speed. Soil Dynamics and Earthquake Engineering, 2022, 153, 107078.	3.8	9
3	Empirical, Experimental and Numerical Prediction of Ground-Borne Vibrations Induced by Impact Pile Driving. Vibration, 2022, 5, 80-95.	1.9	5
4	Railway ground-borne vibrations: Comprehensive field test development and experimental validation of prediction tools. , 2022, , 209-241.		1
5	Experimental validation of a simplified soil-structure interaction approach for the prediction of vibrations in buildings due to railway traffic. Soil Dynamics and Earthquake Engineering, 2021, 141, 106499.	3.8	16
6	Modelling of soil-structure interaction in OpenSees: A practical approach for performance-based seismic design. Structures, 2021, 30, 75-88.	3.6	7
7	Ground-borne noise and vibrations in buildings induced by pile driving: An integrated approach. Applied Acoustics, 2021, 179, 108059.	3.3	11
8	Vibrations induced by railway traffic in buildings: Experimental validation of a sub-structuring methodology based on 2.5D FEM-MFS and 3D FEM. Engineering Structures, 2021, 240, 112381.	5.3	13
9	Numerical modelling for prediction of ground-borne vibrations induced by pile driving. Engineering Structures, 2021, 242, 112533.	5.3	6
10	Railway critical speed assessment: A simple experimental-analytical approach. Soil Dynamics and Earthquake Engineering, 2020, 134, 106156.	3.8	14
11	A Methodology Based on Structural Finite Element Method-Boundary Element Method and Acoustic Boundary Element Method Models in 2.5D for the Prediction of Reradiated Noise in Railway-Induced Ground-Borne Vibration Problems. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.6	12
12	Experimental validation of a FEM-MFS hybrid numerical approach for vibro-acoustic prediction. Applied Acoustics, 2018, 141, 79-92.	3.3	3
13	Study of ground vibrations induced by railway traffic in a 3D FEM model formulated in the time domain: experimental validation. Structure and Infrastructure Engineering, 2017, 13, 652-664.	3.7	35
14	Prediction of Vibrations and Reradiated Noise Due to Railway Traffic: A Comprehensive Hybrid Model Based on a Finite Element Method and Method of Fundamental Solutions Approach. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	13
15	Mitigation of vibrations and re-radiated noise in buildings generated by railway traffic: a parametric study. Procedia Engineering, 2017, 199, 2627-2632.	1.2	9
16	GROUND-BORNE VIBRATIONS DUE TO RAILWAY TRAFFIC IN URBANIZED AREAS: A NUMERICAL STUDY ABOUT TRAFFIC IN TRENCH CROSS-SECTIONS. , 2017, , .		0
17	Experimental analysis of track-ground vibrations on a stretch of the Portuguese railway network. Soil Dynamics and Earthquake Engineering, 2016, 90, 358-380.	3.8	43
18	The influence of train properties on railway ground vibrations. Structure and Infrastructure Engineering, 2016, 12, 517-534.	3.7	54

#	Article	IF	Citations
19	Critical speed of railway tracks. Detailed and simplified approaches. Transportation Geotechnics, 2015, 2, 30-46.	4.5	81