Javad Sadeghi

List of Publications by Year in descending order

56 papers	1,223 citations	257450 24 h-index	414414 32 g-index
56 all docs	56 docs citations	56 times ranked	697 citing authors

#	Article	IF	Citations
1	Development of improved railway track degradation models. Structure and Infrastructure Engineering, 2010, 6, 675-688.	3.7	88
2	Development of Railway Track Geometry Indexes Based on Statistical Distribution of Geometry Data. Journal of Transportation Engineering, 2010, 136, 693-700.	0.9	62
3	Application of neural networks in evaluation of railway track quality condition. Journal of Mechanical Science and Technology, 2012, 26, 113-122.	1.5	61
4	Investigation of rail irregularity effects on wheel/rail dynamic force in slab track: Comparison of two and three dimensional models. Journal of Sound and Vibration, 2016, 374, 228-244.	3.9	52
5	Safe distance of cultural and historical buildings from subway lines. Soil Dynamics and Earthquake Engineering, 2017, 96, 89-103.	3.8	47
6	Experimental evaluation of accuracy of current practices in analysis and design of railway track sleepers. Canadian Journal of Civil Engineering, 2008, 35, 881-893.	1.3	40
7	Development of track condition assessment model based on visual inspection. Structure and Infrastructure Engineering, 2011, 7, 895-905.	3.7	39
8	Reliability of FTA general vibration assessment model in prediction of subway induced ground borne vibrations. Soil Dynamics and Earthquake Engineering, 2019, 117, 300-311.	3.8	39
9	Field investigation on load distribution and deflections of railway track sleepers. Journal of Mechanical Science and Technology, 2007, 21, 1948-1956.	1.5	38
10	Effectiveness of geogrid reinforcement in improvement of mechanical behavior of sand-contaminated ballast. Geotextiles and Geomembranes, 2020, 48, 768-779.	4.6	38
11	Experimental investigation on loading pattern of railway concrete slabs. Construction and Building Materials, 2017, 153, 481-495.	7.2	37
12	Dynamic Interaction of Vehicle and Discontinuous Slab Track Considering Nonlinear Hertz Contact Model. Journal of Transportation Engineering, 2016, 142, .	0.9	34
13	Improvement of railway ballast maintenance approach, incorporating ballast geometry and fouling conditions. Journal of Applied Geophysics, 2018, 151, 263-273.	2.1	34
14	Fatigue properties of crumb rubber asphalt mixtures used in railways. Construction and Building Materials, 2018, 184, 248-257.	7.2	34
15	Field investigation on effects of railway track geometric parameters on rail wear. Journal of Zhejiang University: Science A, 2006, 7, 1846-1855.	2.4	33
16	Large-scale direct shear tests on sand-contaminated ballast. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2018, 171, 451-461.	1.6	33
17	An investigation into the effects of track structural conditions on railway track geometry deviations. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2009, 223, 415-425.	2.0	31
18	Field Investigation on Dynamics of Railway Track Pre-Stressed Concrete Sleepers. Advances in Structural Engineering, 2010, 13, 139-151.	2.4	31

#	Article	IF	Citations
19	Deterioration Analysis of Flexible Pavements under Overweight Vehicles. Journal of Transportation Engineering, 2007, 133, 625-633.	0.9	30
20	Effect of Rail Irregularities on Ride Comfort of Train Moving Over Ballast-Less Tracks. International Journal of Structural Stability and Dynamics, 2019, 19, 1950060.	2.4	30
21	Development of a new track geometry assessment technique incorporating rail cant factor. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2009, 223, 255-263.	2.0	29
22	Improvement of Mechanical Properties of Railway Track Concrete Sleepers Using Steel Fibers. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	29
23	INFLUENCES OF TRAIN SPEED AND AXLE LOADS ON LIFE CYCLE OF RAIL FASTENING CLIPS. Transactions of the Canadian Society for Mechanical Engineering, 2015, 39, 1-11.	0.8	27
24	Nonlinear simulation of vertical behavior of railway fastening system. Engineering Structures, 2020, 209, 110340.	5.3	26
25	IMPORTANCE OF NONLINEARITY OF TRACK SUPPORT SYSTEM IN MODELING OF RAILWAY TRACK DYNAMICS. International Journal of Structural Stability and Dynamics, 2013, 13, 1350008.	2.4	25
26	Improvement of Railway Maintenance Approach by Developing a New Railway Condition Index. Journal of Transportation Engineering Part A: Systems, 2017, 143, .	1.4	23
27	Development of railway ballast geometry index using automated measurement system. Measurement: Journal of the International Measurement Confederation, 2019, 138, 132-142.	5.0	20
28	Influences of railway ballast sand contamination on loading pattern of pre-stressed concrete sleeper. Construction and Building Materials, 2020, 233, 117324.	7.2	19
29	Correlation between rolling noise generation and rail roughness of tangent tracks and curves in time and frequency domains. Applied Acoustics, 2016, 107, 10-18.	3.3	15
30	An Efficient Algorithm for Nonlinear Analysis of Vehicle/Track Interaction Problems. International Journal of Structural Stability and Dynamics, 2016, 16, 1550040.	2.4	14
31	Effectiveness of track stiffness reduction in attenuation of metro induced vibrations received by historical buildings. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	14
32	Effect of unsupported sleepers on rail track dynamic behaviour. Proceedings of the Institution of Civil Engineers: Transport, 2018, 171, 286-298.	0.6	13
33	Comparisons of the mechanical properties of timber, steel and concrete sleepers. Structure and Infrastructure Engineering, 2010, , 1-9.	3.7	12
34	Experimental Investigation of Mechanical Properties of Ballast Contaminated with Wet Sand Materials. International Journal of Geomechanics, 2021, 21, .	2.7	12
35	Development of Nonlinear Railway Track Model Applying Modified Plane Strain Technique. Journal of Transportation Engineering, 2010, 136, 1068-1074.	0.9	10
36	Correlations among railway turnout geometry, safety and speeds. Proceedings of the Institution of Civil Engineers: Transport, 2016, 169, 219-229.	0.6	10

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37	Development of Railway Ride Comfort Prediction Model: Incorporating Track Geometry and Rolling Stock Conditions. Journal of Transportation Engineering Part A: Systems, 2020, 146, 04020006.	1.4	10
38	Development of integrated railway ballast quality index. International Journal of Pavement Engineering, 2021, 22, 32-40.	4.4	10
39	Quality condition assessment and determination of effective maintenance activities in railway slab tracks. International Journal of Pavement Engineering, 2012, 13, 1-10.	4.4	9
40	Development of degradation model for urban asphalt pavement. International Journal of Pavement Engineering, 2017, 18, 659-667.	4.4	8
41	Improvements of conventional methods in railway track analysis and design. Canadian Journal of Civil Engineering, 2010, 37, 675-683.	1.3	7
42	Investigation of the Optimum Height of Railway Embankments during Earthquake Based on Their Stability in Liquefaction. Journal of Earthquake Engineering, 2019, 23, 882-908.	2.5	7
43	Effects of particle gradations on cyclic behavior of ballast contaminated with sand. Construction and Building Materials, 2022, 342, 127943.	7.2	7
44	Development of Rail-Condition Assessment Model Using Ultrasonic Technique. Journal of Transportation Engineering Part A: Systems, 2020, 146, .	1.4	6
45	Vehicle dynamic interaction with railway track embankment. Proceedings of the Institution of Civil Engineers: Transport, 2014, 167, 15-26.	0.6	5
46	Influences of track and rolling stock parameters on the railway load amplification factor. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2016, 230, 1202-1212.	2.0	5
47	INFLUENCES OF RAIL SUPPORT CONDITIONS ON MECHANICAL BEHAVIOR OF RAILWAY TRACK SYSTEM. Transactions of the Canadian Society for Mechanical Engineering, 2008, 32, 561-574.	0.8	4
48	Development of train ride comfort prediction model for railway slab track system. Latin American Journal of Solids and Structures, 2020, 17, .	1.0	4
49	Effect of uncertainty of fastening systems properties on wheel/rail dynamic force. Latin American Journal of Solids and Structures, 2021, 18, .	1.0	3
50	Impact of superelevation deficiencies on the loading pattern of railway sleepers. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2013, 227, 286-295.	2.0	2
51	Investigation of sand columns effect on stability of railway embankments overlaid on liquefiable foundations. Journal of Earthquake Engineering, 2020, 24, 845-868.	2.5	2
52	Development of non-destructive method of detecting steel bars corrosion in bridge decks. Structural Engineering and Mechanics, 2013, 46, 615-627.	1.0	2
53	Grillage analogy applications in analysis of bridge decks. Australian Journal of Civil Engineering, 2012, 10, .	1.6	1
54	New Advances in Design of Railway Track System. , 2012, , .		1

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55	Effectiveness of grouted layer in the mitigation of subway-induced vibrations. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2023, 237, 41-54.	2.0	1
56	Application of FE-SEA approach in investigation of track properties influences on railway rolling noise generation. Noise Control Engineering Journal, 2022, 70, 188-206.	0.3	0