

Chengbiao Cai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34
papers

1,502
citations

17
h-index

37
g-index

37
ext. papers

1,823
ext. citations

3.4
avg, IF

4.92
L-index

#	Paper	IF	Citations
34	Fundamentals of vehicle-track coupled dynamics. <i>Vehicle System Dynamics</i> , 2009 , 47, 1349-1376	2.8	454
33	High-speed train-track-bridge dynamic interactions [Part I: theoretical model and numerical simulation. <i>International Journal of Rail Transportation</i> , 2013 , 1, 3-24	2.1	235
32	Interface damage and its effect on vibrations of slab track under temperature and vehicle dynamic loads. <i>International Journal of Non-Linear Mechanics</i> , 2014 , 58, 222-232	2.8	119
31	High-speed train-track-bridge dynamic interactions [Part II: experimental validation and engineering application. <i>International Journal of Rail Transportation</i> , 2013 , 1, 25-41	2.1	109
30	A nonlinear and fractional derivative viscoelastic model for rail pads in the dynamic analysis of coupled vehicle-slab track systems. <i>Journal of Sound and Vibration</i> , 2015 , 335, 304-320	3.9	68
29	Mechanical property and damage evolution of concrete interface of ballastless track in high-speed railway: Experiment and simulation. <i>Construction and Building Materials</i> , 2018 , 187, 460-473	6.7	59
28	Development of a Vibration Attenuation Track at Low Frequencies for Urban Rail Transit. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2017 , 32, 713-726	8.4	52
27	Low-frequency vibration control of floating slab tracks using dynamic vibration absorbers. <i>Vehicle System Dynamics</i> , 2015 , 53, 1296-1314	2.8	47
26	Safety threshold of high-speed railway pier settlement based on train-track-bridge dynamic interaction. <i>Science China Technological Sciences</i> , 2015 , 58, 202-210	3.5	46
25	Dynamic interaction of suspension-type monorail vehicle and bridge: Numerical simulation and experiment. <i>Mechanical Systems and Signal Processing</i> , 2019 , 118, 388-407	7.8	46
24	Damage evolution and dynamic response of cement asphalt mortar layer of slab track under vehicle dynamic load. <i>Science China Technological Sciences</i> , 2014 , 57, 1883-1894	3.5	45
23	Stress intensity factors evaluation for through-transverse crack in slab track system under vehicle dynamic load. <i>Engineering Failure Analysis</i> , 2014 , 46, 219-237	3.2	32
22	Interface Damage Assessment of Railway Slab Track Based on Reliability Techniques and Vehicle-Track Interactions. <i>Journal of Transportation Engineering</i> , 2016 , 142, 04016041		30
21	Experimental study on dynamic performance of typical nonballasted track systems using a full-scale test rig. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2017 , 231, 470-481	1.4	18
20	Application of dynamic vibration absorbers in designing a vibration isolation track at low-frequency domain. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2017 , 231, 546-557	1.4	18
19	Mechanical characteristic variation of ballastless track in high-speed railway: effect of train-track interaction and environment loads. <i>Railway Engineering Science</i> , 2020 , 28, 408-423	4.5	18
18	Full-scale multi-functional test platform for investigating mechanical performance of track-subgrade systems of high-speed railways. <i>Railway Engineering Science</i> , 2020 , 28, 213-231	4.5	17

17	An improved dynamic model of suspended monorail train-bridge system considering a tyre model with patch contact. <i>Mechanical Systems and Signal Processing</i> , 2020 , 144, 106865	7.8	15
16	A frequency and amplitude dependent model of rail pads for the dynamic analysis of train-track interaction. <i>Science China Technological Sciences</i> , 2015 , 58, 191-201	3.5	13
15	Key parameter selection of suspended monorail system based on vehicle-bridge dynamical interaction analysis. <i>Vehicle System Dynamics</i> , 2020 , 58, 339-356	2.8	13
14	Experimental and numerical analysis on concrete interface damage of ballastless track using different cohesive models. <i>Construction and Building Materials</i> , 2020 , 263, 120859	6.7	8
13	Dynamic interaction analysis of suspended monorail vehicle and bridge subject to crosswinds. <i>Mechanical Systems and Signal Processing</i> , 2021 , 156, 107707	7.8	6
12	Field measurement of the dynamic responses of a suspended monorail train-bridge system. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2020 , 234, 1093-1108	1.4	6
11	Influence of Wheel Eccentricity on Vertical Vibration of Suspended Monorail Vehicle: Experiment and Simulation. <i>Shock and Vibration</i> , 2017 , 2017, 1-10	1.1	5
10	Improvement on Curve Negotiation Performance of Suspended Monorail Vehicle Considering Flexible Guideway. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2050057	1.9	4
9	Dynamic analysis of CRTS III slab track-subgrade system under impact load. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2014 , 44, 722-728	1.3	4
8	DYNAMIC PERFORMANCE OF LOW VIBRATION SLAB TRACK ON SHARED HIGH-SPEED PASSENGER AND FREIGHT RAILWAY. <i>Transport</i> , 2018 , 33, 669-678	1.4	3
7	Impact coefficient analysis of track beams due to moving suspended monorail vehicles. <i>Vehicle System Dynamics</i> , 2020 , 1-17	2.8	3
6	Coupled vibration analysis of suspended monorail train and curved bridge considering nonlinear wheel-track contact relation. <i>Vehicle System Dynamics</i> , 1-28	2.8	3
5	Fatigue Life Prediction of CRTS I Ballastless Slab Track 2011 ,		2
4	Experimental investigation on dynamic performance evolution of double-block ballastless track under high-cycle train loads. <i>Engineering Structures</i> , 2022 , 254, 113872	4.7	1
3	Cohesive zone modeling of fatigue crack propagation in slab track interface under cyclic temperature load. <i>Engineering Failure Analysis</i> , 2022 , 134, 106028	3.2	1
2	Experimental Investigation on Coupled Vibration Features of Suspended Monorail Train-Bridge System under Constant Speed and Braking Conditions. <i>International Journal of Structural Stability and Dynamics</i> , 2150177	1.9	1
1	Sensor deploying for damage identification of vibration isolator in floating-slab track using deep residual network. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 183, 109801	4.6	1