

# Chengbiao Cai

## List of Publications by Year in Descending Order

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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	Experimental investigation on dynamic performance evolution of double-block ballastless track under high-cycle train loads. <i>Engineering Structures</i> , <b>2022</b> , 254, 113872	4.7	1
33	Cohesive zone modeling of fatigue crack propagation in slab track interface under cyclic temperature load. <i>Engineering Failure Analysis</i> , <b>2022</b> , 134, 106028	3.2	1
32	Dynamic interaction analysis of suspended monorail vehicle and bridge subject to crosswinds. <i>Mechanical Systems and Signal Processing</i> , <b>2021</b> , 156, 107707	7.8	6
31	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> , <b>2021</b> , 183, 109801	4.6	1
30	Mechanical characteristic variation of ballastless track in high-speed railway: effect of train-track interaction and environment loads. <i>Railway Engineering Science</i> , <b>2020</b> , 28, 408-423	4.5	18
29	Improvement on Curve Negotiation Performance of Suspended Monorail Vehicle Considering Flexible Guideway. <i>International Journal of Structural Stability and Dynamics</i> , <b>2020</b> , 20, 2050057	1.9	4
28	An improved dynamic model of suspended monorail train-bridge system considering a tyre model with patch contact. <i>Mechanical Systems and Signal Processing</i> , <b>2020</b> , 144, 106865	7.8	15
27	Impact coefficient analysis of track beams due to moving suspended monorail vehicles. <i>Vehicle System Dynamics</i> , <b>2020</b> , 1-17	2.8	3
26	Experimental and numerical analysis on concrete interface damage of ballastless track using different cohesive models. <i>Construction and Building Materials</i> , <b>2020</b> , 263, 120859	6.7	8
25	Full-scale multi-functional test platform for investigating mechanical performance of track-subgrade systems of high-speed railways. <i>Railway Engineering Science</i> , <b>2020</b> , 28, 213-231	4.5	17
24	Key parameter selection of suspended monorail system based on vehicle-bridge dynamical interaction analysis. <i>Vehicle System Dynamics</i> , <b>2020</b> , 58, 339-356	2.8	13
23	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> , <b>2020</b> , 234, 1093-1108	1.4	6
22	Dynamic interaction of suspension-type monorail vehicle and bridge: Numerical simulation and experiment. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 118, 388-407	7.8	46
21	Mechanical property and damage evolution of concrete interface of ballastless track in high-speed railway: Experiment and simulation. <i>Construction and Building Materials</i> , <b>2018</b> , 187, 460-473	6.7	59
20	DYNAMIC PERFORMANCE OF LOW VIBRATION SLAB TRACK ON SHARED HIGH-SPEED PASSENGER AND FREIGHT RAILWAY. <i>Transport</i> , <b>2018</b> , 33, 669-678	1.4	3
19	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> , <b>2017</b> , 231, 470-481	1.4	18
18	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> , <b>2017</b> , 231, 546-557	1.4	18

17	Influence of Wheel Eccentricity on Vertical Vibration of Suspended Monorail Vehicle: Experiment and Simulation. <i>Shock and Vibration</i> , <b>2017</b> , 2017, 1-10	1.1	5
16	Development of a Vibration Attenuation Track at Low Frequencies for Urban Rail Transit. <i>Computer-Aided Civil and Infrastructure Engineering</i> , <b>2017</b> , 32, 713-726	8.4	52
15	Interface Damage Assessment of Railway Slab Track Based on Reliability Techniques and Vehicle-Track Interactions. <i>Journal of Transportation Engineering</i> , <b>2016</b> , 142, 04016041		30
14	Safety threshold of high-speed railway pier settlement based on train-track-bridge dynamic interaction. <i>Science China Technological Sciences</i> , <b>2015</b> , 58, 202-210	3.5	46
13	Low-frequency vibration control of floating slab tracks using dynamic vibration absorbers. <i>Vehicle System Dynamics</i> , <b>2015</b> , 53, 1296-1314	2.8	47
12	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> , <b>2015</b> , 335, 304-320	3.9	68
11	A frequency and amplitude dependent model of rail pads for the dynamic analysis of train-track interaction. <i>Science China Technological Sciences</i> , <b>2015</b> , 58, 191-201	3.5	13
10	Stress intensity factors evaluation for through-transverse crack in slab track system under vehicle dynamic load. <i>Engineering Failure Analysis</i> , <b>2014</b> , 46, 219-237	3.2	32
9	Damage evolution and dynamic response of cement asphalt mortar layer of slab track under vehicle dynamic load. <i>Science China Technological Sciences</i> , <b>2014</b> , 57, 1883-1894	3.5	45
8	Interface damage and its effect on vibrations of slab track under temperature and vehicle dynamic loads. <i>International Journal of Non-Linear Mechanics</i> , <b>2014</b> , 58, 222-232	2.8	119
7	Dynamic analysis of CRTS III slab track-subgrade system under impact load. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , <b>2014</b> , 44, 722-728	1.3	4
6	High-speed train-track-bridge dynamic interactions [Part II: experimental validation and engineering application. <i>International Journal of Rail Transportation</i> , <b>2013</b> , 1, 25-41	2.1	109
5	High-speed train-track-bridge dynamic interactions [Part I: theoretical model and numerical simulation. <i>International Journal of Rail Transportation</i> , <b>2013</b> , 1, 3-24	2.1	235
4	Fatigue Life Prediction of CRTS I Ballastless Slab Track <b>2011</b> ,		2
3	Fundamentals of vehicle-track coupled dynamics. <i>Vehicle System Dynamics</i> , <b>2009</b> , 47, 1349-1376	2.8	454
2	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
1	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