

Xun Zhang

List of Publications by Year in descending order

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36
papers

506
citations

687363

13
h-index

713466

21
g-index

37
all docs

37
docs citations

37
times ranked

234
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure-borne noise of railway composite bridge: Numerical simulation and experimental validation. <i>Journal of Sound and Vibration</i> , 2015, 353, 378-394.	3.9	46
2	A case study of interior low-frequency noise from box-shaped bridge girders induced by running trains: Its mechanism, prediction and countermeasures. <i>Journal of Sound and Vibration</i> , 2016, 367, 129-144.	3.9	45
3	Theoretical and experimental investigation on bridge-borne noise under moving high-speed train. <i>Science China Technological Sciences</i> , 2013, 56, 917-924.	4.0	37
4	Acoustic performance of a semi-closed noise barrier installed on a high-speed railway bridge: Measurement and analysis considering actual service conditions. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 138, 386-399.	5.0	36
5	Dynamic analysis of the interactions between a low-to-medium-speed maglev train and a bridge: Field test results of two typical bridges. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2018, 232, 2039-2059.	2.0	33
6	Applying constrained layer damping to reduce vibration and noise from a steel-concrete composite bridge: An experimental and numerical investigation. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 1743-1769.	3.5	31
7	Using elastic bridge bearings to reduce train-induced ground vibrations: An experimental and numerical study. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 85, 78-90.	3.8	27
8	Experimental research on noise emanating from concrete box-girder bridges on intercity railway lines. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2015, 229, 125-135.	2.0	25
9	Review of recent progress in studies on noise emanating from rail transit bridges. <i>Journal of Modern Transportation</i> , 2016, 24, 237-250.	2.5	22
10	Dynamic properties of a steel-UHPC composite deck with large U-ribs: Experimental measurement and numerical analysis. <i>Engineering Structures</i> , 2020, 213, 110569.	5.3	21
11	Numerical study of rockfall impact on bridge piers and its effect on the safe operation of high-speed trains. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 1-19.	3.7	18
12	Train-induced vibration and noise radiation of a prestressed concrete box-girder. <i>Noise Control Engineering Journal</i> , 2013, 61, 425-435.	0.3	17
13	Finite Release of Debris Flows around Round and Square Piers. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	1.5	17
14	A hybrid model for the prediction of low-frequency noise emanating from a concrete box-girder railway bridge. <i>Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit</i> , 2016, 230, 1242-1256.	2.0	15
15	Semi-analytical simulation for ground-borne vibration caused by rail traffic on viaducts: Vibration-isolating effects of multi-layered elastic supports. <i>Journal of Sound and Vibration</i> , 2022, 516, 116540.	3.9	15
16	Medium- and High-Frequency Vibration Characteristics of a Box-Girder by the Waveguide Finite Element Method. <i>International Journal of Structural Stability and Dynamics</i> , 2018, 18, 1850141.	2.4	13
17	Influences of Soil-Structure Interaction on Coupled Vibration of Train-Bridge System: Theoretical and Experimental Study. <i>Advances in Structural Engineering</i> , 2013, 16, 1355-1364.	2.4	12
18	Numerical and experimental investigation into the mid- and high-frequency vibration behavior of a concrete box girder bridge induced by high-speed trains. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 5597-5609.	2.6	12

#	ARTICLE	IF	CITATIONS
19	A frequency domain model for analysing vibrations in large-scale integrated building-bridge structures induced by running trains. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2020, 234, 226-241.	2.0	10
20	Vibro-acoustic performance of steel-concrete composite and prestressed concrete box girders subjected to train excitations. Railway Engineering Science, 2021, 29, 336-349.	4.4	10
21	Vibrational and acoustical performance of concrete box-section bridges subjected to train wheel-rail excitation: Field test and numerical analysis. Noise Control Engineering Journal, 2016, 64, 217-229.	0.3	9
22	Reduction of vibration and noise in rail transit steel bridges using elastomer mats: Numerical analysis and experimental validation. Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit, 2021, 235, 248-261.	2.0	7
23	Dynamic Characteristics Study of U-Beam Applied in Rail Transit. Advanced Materials Research, 0, 243-249, 2021-2026.	0.3	4
24	Dynamic analysis of coupled train-track-bridge system subjected to debris flow impact. Advances in Structural Engineering, 2019, 22, 919-934.	2.4	4
25	Flexural wave band gaps of steel bridge decks periodically stiffened with U-ribs: Mechanism and influencing factors. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 799-809.	2.9	4
26	Mid-high frequency vibration attenuation properties of periodic U-rib plates: Numerical modeling and scale specimen testing. Thin-Walled Structures, 2022, 171, 108644.	5.3	3
27	Aerodynamic loads and bridge responses under train passage: case study of an overpass steel box-girder cable-stayed bridge. Advances in Bridge Engineering, 2022, 3, .	1.9	3
28	Vibration characteristics of channel steel-concrete composite girders: An experimental and numerical analysis. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 1030-1043.	2.9	3
29	<i>In Situ&i> Experimental Study of Environmental Vibration Induced by CRH on Elevated Railway Station. Advanced Materials Research, 0, 639-640, 930-934.	0.3	2
30	Analysis of Structural Parameters of Cable-Stayed Suspension Bridges. Advanced Materials Research, 0, 163-167, 2068-2076.	0.3	1
31	Analysis of Noise Radiated by High-Speed Railway Bridge. , 2011, , .		1
32	<i>In Situ&i> Measurement of Ground Vibration Induced by Inter-City Express Train. Applied Mechanics and Materials, 2012, 204-208, 502-507.	0.2	1
33	An analytical investigation into the vibration behavior of an orthotropic steel deck. JVC/Journal of Vibration and Control, 0, , 107754632110507.	2.6	1
34	Vibration and sound radiation of Rail Transit viaduct. , 2011, , .		0
35	Mathematical Logarithmic Model for Predicting Noise of Simply-Supported PC-Box Girder in High-Speed Railway. Applied Mechanics and Materials, 0, 204-208, 1870-1874.	0.2	0
36	Computation Model for Structure-Borne Noise from Railway Bridge with CLD. , 2018, , 439-446.		0