

Xiang Liu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6184026/publications.pdf>

Version: 2024-02-01

30
papers

524
citations

759233

12
h-index

713466

21
g-index

30
all docs

30
docs citations

30
times ranked

139
citing authors

#	ARTICLE	IF	CITATIONS
1	Train-bridge system dynamics analysis with uncertain parameters based on new point estimate method. <i>Engineering Structures</i> , 2019, 199, 109454.	5.3	64
2	Sensitivity and dynamic analysis of train-bridge coupled system with multiple random factors. <i>Engineering Structures</i> , 2020, 221, 111083.	5.3	59
3	Stochastic Analysis of Train-Bridge System Using the Karhunen-Loève Expansion and the Point Estimate Method. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2050025.	2.4	44
4	Dynamic response limit of high-speed railway bridge under earthquake considering running safety performance of train. <i>Journal of Central South University</i> , 2021, 28, 968-980.	3.0	43
5	An exact dynamic stiffness method for multibody systems consisting of beams and rigid-bodies. <i>Mechanical Systems and Signal Processing</i> , 2021, 150, 107264.	8.0	34
6	Study on the dynamic response correction factor of a coupled high-speed train-track-bridge system under near-fault earthquakes. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 3303-3321.	4.7	32
7	Experimental investigation on shear steel bars in CRTS II slab ballastless track under low-cyclic reciprocating load. <i>Construction and Building Materials</i> , 2020, 255, 119425.	7.2	32
8	Analytical investigation on the geometry of longitudinal continuous track in high-speed rail corresponding to lateral bridge deformation. <i>Construction and Building Materials</i> , 2021, 268, 121064.	7.2	30
9	Investigations on the influence of prestressed concrete creep on train-track-bridge system. <i>Construction and Building Materials</i> , 2021, 293, 123504.	7.2	21
10	Lateral girder displacement effect on the safety and comfortability of the high-speed rail train operation. <i>Vehicle System Dynamics</i> , 2022, 60, 3215-3239.	3.7	20
11	Probability analysis of train-bridge coupled system considering track irregularities and parameter uncertainty. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 2918-2935.	4.7	17
12	Safety and comfort assessment of a train passing over an earthquake-damaged bridge based on a probability model. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 525-536.	3.7	16
13	Effects of foundation settlement on comfort of riding on high-speed train-track-bridge coupled systems. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 2760-2778.	4.7	15
14	Spectral dynamic stiffness theory for free vibration analysis of plate structures stiffened by beams with arbitrary cross-sections. <i>Thin-Walled Structures</i> , 2021, 160, 107391.	5.3	14
15	Creep Effect on the Dynamic Response of Train-Track-Continuous Bridge System. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150139.	2.4	12
16	Stochastic finite element method based on point estimate and Karhunen-Loève expansion. <i>Archive of Applied Mechanics</i> , 2021, 91, 1257-1271.	2.2	11
17	An efficient computing strategy based on the unconditionally stable explicit algorithm for the nonlinear train-track-bridge system under an earthquake. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 145, 106718.	3.8	10
18	Running Safety of High-Speed Railway Train on Bridge During Earthquake Considering Uncertainty Parameters of Bridge. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	2.4	7

#	ARTICLE	IF	CITATIONS
19	Stochastic dynamic stiffness for damped taut membranes. Computers and Structures, 2021, 248, 106483.	4.4	6
20	Uneven settlement threshold of continuous beam pier based on analytic mapping relationship. Structure and Infrastructure Engineering, 2023, 19, 1190-1204.	3.7	6
21	An Efficient Model for Train-Track-Bridge-Coupled System under Seismic Excitation. Shock and Vibration, 2021, 2021, 1-14.	0.6	5
22	Application of KLE-PEM for Random Dynamic Analysis of Nonlinear Train-Track-Bridge System. Shock and Vibration, 2020, 2020, 1-10.	0.6	5
23	Effects of near-fault pulse-type ground motions on high-speed railway simply supported bridge and pulse parameter analysis. Bulletin of Earthquake Engineering, 2022, 20, 6167-6192.	4.1	5
24	Study of resonance condition of railway bridge subjected to train loads with a four-beam system. Mechanics Based Design of Structures and Machines, 0, , 1-21.	4.7	4
25	An efficient simplified model for high-speed railway simply supported bridge under earthquakes. Structure and Infrastructure Engineering, 2023, 19, 1811-1825.	3.7	4
26	Evaluating the Dynamic Response of the Bridge-Vehicle System considering Random Road Roughness Based on the Moment Method. Advances in Civil Engineering, 2021, 2021, 1-12.	0.7	2
27	Dynamic Impact Factor and Resonance Analysis of Curved Intercity Railway Viaduct. Applied Sciences (Switzerland), 2022, 12, 2978.	2.5	2
28	Fatigue Life Assessment of Intercity Track Viaduct Based on Vehicle-€"Bridge Coupled System. Mathematics, 2022, 10, 1663.	2.2	2
29	Research on dynamic response of multi-layer beam system considering random interlayer parameters. JVC/Journal of Vibration and Control, 0, , 107754632110726.	2.6	1
30	Influence of Fastener Failure on Dynamic Performance of Subway Vehicle. Applied Sciences (Switzerland), 2022, 12, 6769.	2.5	1