Xiang Liu

List of Publications by Year in descending order

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XIANG LILL

#	Article	IF	CITATIONS
1	Mechanical properties of Nomex honeycomb sandwich panels under dynamic impact. Composite Structures, 2020, 235, 111814.	5.8	72
2	Train-bridge system dynamics analysis with uncertain parameters based on new point estimate method. Engineering Structures, 2019, 199, 109454.	5.3	64
3	Experimental investigation on dynamic response of asphalt pavement using SmartRock sensor under vibrating compaction loading. Construction and Building Materials, 2020, 247, 118592.	7.2	60
4	Stochastic Analysis of Train–Bridge System Using the Karhunen–Loéve Expansion and the Point Estimate Method. International Journal of Structural Stability and Dynamics, 2020, 20, 2050025.	2.4	44
5	Dynamic response limit of high-speed railway bridge under earthquake considering running safety performance of train. Journal of Central South University, 2021, 28, 968-980.	3.0	43
6	An exact dynamic stiffness method for multibody systems consisting of beams and rigid-bodies. Mechanical Systems and Signal Processing, 2021, 150, 107264.	8.0	34
7	Upper bound analysis of slope stability with nonlinear failure criterion based on strength reduction technique. Central South University, 2010, 17, 836-844.	0.5	33
8	Study on the dynamic response correction factor of a coupled high-speed train–track–bridge system under near-fault earthquakes. Mechanics Based Design of Structures and Machines, 2022, 50, 3303-3321.	4.7	32
9	Free vibration analysis of FG-CNTRC conical shell panels using the kernel particle Ritz element-free method. Composite Structures, 2021, 255, 112987.	5.8	28
10	An analytical spectral stiffness method for buckling of rectangular plates on Winkler foundation subject to general boundary conditions. Applied Mathematical Modelling, 2020, 86, 36-53.	4.2	26
11	A highly accurate analytical spectral flexibility formulation for buckling and wrinkling of orthotropic rectangular plates. International Journal of Mechanical Sciences, 2020, 168, 105311.	6.7	23
12	Exact free vibration analysis for membrane assemblies with general classical boundary conditions. Journal of Sound and Vibration, 2020, 485, 115484.	3.9	21
13	Running test on high-speed railway track-simply supported girder bridge systems under seismic action. Bulletin of Earthquake Engineering, 2021, 19, 3779-3802.	4.1	21
14	Lateral girder displacement effect on the safety and comfortability of the high-speed rail train operation. Vehicle System Dynamics, 2022, 60, 3215-3239.	3.7	20
15	Transient unsaturated flow in the drainage layer of a highway: solution and drainage performance. Road Materials and Pavement Design, 2019, 20, 528-553.	4.0	17
16	Probability analysis of train-bridge coupled system considering track irregularities and parameter uncertainty. Mechanics Based Design of Structures and Machines, 2023, 51, 2918-2935.	4.7	17
17	Closed-form dynamic stiffness formulation for exact modal analysis of tapered and functionally graded beams and their assemblies. International Journal of Mechanical Sciences, 2022, 214, 106887.	6.7	16
18	Effects of foundation settlement on comfort of riding on high-speed train-track-bridge coupled systems. Mechanics Based Design of Structures and Machines, 2022, 50, 2760-2778.	4.7	15

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19	Spectral dynamic stiffness theory for free vibration analysis of plate structures stiffened by beams with arbitrary cross-sections. Thin-Walled Structures, 2021, 160, 107391.	5.3	14
20	Dynamic response of asphalt pavement under vibration rolling load: Theory and calibration. Soil Dynamics and Earthquake Engineering, 2021, 143, 106633.	3.8	13
21	Exact wave propagation analysis of lattice structures based on the dynamic stiffness method and the Wittrick–Williams algorithm. Mechanical Systems and Signal Processing, 2022, 174, 109044.	8.0	13
22	Seismic-Induced Geometric Irregularity of Rail Alignment under Transverse Random Earthquake. Journal of Earthquake Engineering, 2023, 27, 575-596.	2.5	12
23	Buckling-resistant thin annular plates in tension. Mathematics and Mechanics of Solids, 2014, 19, 925-951.	2.4	11
24	Stochastic finite element method based on point estimate and Karhunen–Loéve expansion. Archive of Applied Mechanics, 2021, 91, 1257-1271.	2.2	11
25	Dynamic stiffness method for exact longitudinal free vibration of rods and trusses using simple and advanced theories. Applied Mathematical Modelling, 2022, 104, 401-420.	4.2	11
26	Investigating the Effect of Dimension Parameters on Sound Transmission Losses in Nomex Honeycomb Sandwich. Applied Sciences (Switzerland), 2020, 10, 3109.	2.5	7
27	Stochastic dynamic stiffness for damped taut membranes. Computers and Structures, 2021, 248, 106483.	4.4	6
28	Extended Wittrick–Williams algorithm for eigenvalue solution of stochastic dynamic stiffness method. Mechanical Systems and Signal Processing, 2022, 166, 108354.	8.0	6
29	Application of KLE-PEM for Random Dynamic Analysis of Nonlinear Train-Track-Bridge System. Shock and Vibration, 2020, 2020, 1-10.	0.6	5
30	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
31	A highly accurate spectral dynamic stiffness method for efficient broadband modal and dynamic response analysis of membranes assemblies with arbitrary boundary conditions. Computers and Structures, 2022, 267, 106797.	4.4	4
32	Semi-analytical approximations for a class of multi-parameter eigenvalue problems related to tensile buckling. Zeitschrift Fur Angewandte Mathematik Und Physik, 2013, 64, 863-883.	1.4	3
33	Extension of the Wittrick-Williams Algorithm for Free Vibration Analysis of Hybrid Dynamic Stiffness Models Connecting Line and Point Nodes. Mathematics, 2022, 10, 57.	2.2	3
34	Theoretical and Experimental Investigation on Dynamic Response of Asphalt Pavement Under Vibration Compaction. Frontiers in Materials, 2022, 8, .	2.4	2
35	An analytical framework for broadband dynamic analysis of plate built-up structures with uncertain viscoelastic boundary or connection conditions. Mechanical Systems and Signal Processing, 2022, 177, 109121.	8.0	2
36	On the bifurcations of the Lamé solutions in plane-strain elasticity. International Journal of Non-Linear Mechanics, 2012, 47, 135-143.	2.6	1

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37	Exact Free Vibration Analysis for Plate Built-Up Structures under Comprehensive Combinations of Boundary Conditions. Shock and Vibration, 2020, 2020, 1-21.	0.6	1
38	A Hybrid Method to Obtain the Wheel–Rail Contact Point at Extreme Positions. International Journal of Structural Stability and Dynamics, 2021, 21, .	2.4	0
39	Corrigendum to "An exact dynamic stiffness method for multibody systems consisting of beams and rigid-bodies, Mechanical Systems and Signal Processing 150 (2021) 107264, by X. Liu, Ch. Sun, J.R. Banerjee, H-Ch. Dan, L. Chang― Mechanical Systems and Signal Processing, 2022, 164, 108257.	8.0	Ο