## Xing-Huai Huang

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Earthquake Mitigation Study on Viscoelastic Dampers for Reinforced Concrete Structures. JVC/Journal of Vibration and Control, 2007, 13, 29-43.	1.5	95
2	Equivalent fractional Kelvin model and experimental study on viscoelastic damper. JVC/Journal of Vibration and Control, 2015, 21, 2536-2552.	1.5	80
3	Parameters optimization of vibration isolation and mitigation system for precision platforms using non-dominated sorting genetic algorithm. Mechanical Systems and Signal Processing, 2019, 128, 191-201.	4.4	80
4	Experimental and Theoretical Study of High-Energy Dissipation-Viscoelastic Dampers Based on Acrylate-Rubber Matrix. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	80
5	Optimal design of tuned mass damper inerter with a Maxwell element for mitigating the vortex-induced vibration in bridges. Mechanical Systems and Signal Processing, 2021, 148, 107180.	4.4	73
6	Design, performance test and analysis on magnetorheological damper for earthquake mitigation. Structural Control and Health Monitoring, 2013, 20, 956-970.	1.9	70
7	Energy damage detection strategy based on acceleration responses for long-span bridge structures. Engineering Structures, 2007, 29, 609-617.	2.6	65
8	Energy Damage Detection Strategy Based on Strain Responses for Long-Span Bridge Structures. Journal of Bridge Engineering, 2011, 16, 644-652.	1.4	52
9	Performance tests and mathematical model considering magnetic saturation for magnetorheological damper. Journal of Intelligent Material Systems and Structures, 2012, 23, 1331-1349.	1.4	48
10	Dynamic Analysis and Parameter Optimization of Pipelines with Multidimensional Vibration Isolation and Mitigation Device. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	48
11	A synthetic optimization analysis method on structures with viscoelastic dampers. Soil Dynamics and Earthquake Engineering, 2003, 23, 683-689.	1.9	47
12	Optimal analysis and experimental study on structures with viscoelastic dampers. Journal of Sound and Vibration, 2004, 273, 607-618.	2.1	45
13	Neuro-fuzzy control strategy for earthquake-excited nonlinear magnetorheological structures. Soil Dynamics and Earthquake Engineering, 2008, 28, 717-727.	1.9	45
14	Novel Data-Driven Framework for Predicting Residual Strength of Corroded Pipelines. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	45
15	Vibration suppression on a platform by using vibration isolation and mitigation devices. Nonlinear Dynamics, 2016, 83, 1341-1353.	2.7	44
16	Damage Detection for Space Truss Structures Based on Strain Mode under Ambient Excitation. Journal of Engineering Mechanics - ASCE, 2012, 138, 1215-1223.	1.6	40
17	Wind vibration control of stay cables using magnetorheological dampers under optimal equivalent control algorithm. Journal of Sound and Vibration, 2019, 443, 732-747.	2.1	40
18	Damage Identification of Pipeline Based on Ultrasonic Guided Wave and Wavelet Denoising. Journal of Pipeline Systems Engineering and Practice, 2021, 12, .	0.9	32

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19	Experimental study on vertical performance of multidimensional earthquake isolation and mitigation devices for long-span reticulated structures. JVC/Journal of Vibration and Control, 2012, 18, 1971-1985.	1.5	31
20	Viscoelastic Properties of Magnetorheological Elastomers for Damping Applications. Macromolecular Materials and Engineering, 2014, 299, 1116-1125.	1.7	31
21	Experimental and theoretical study on a building structure controlled by multi-dimensional earthquake isolation and mitigation devices. Nonlinear Dynamics, 2017, 89, 723-740.	2.7	30
22	Seismic behavior and damage evolution for retrofitted RC frames using haunch viscoelastic damping braces. Engineering Structures, 2019, 199, 109583.	2.6	29
23	Horizontal shaking table tests on structures using innovative earthquake mitigation devices. Journal of Sound and Vibration, 2009, 325, 34-48.	2.1	27
24	Safety and Stability of Light-Rail Train Running on Multispan Bridges with Deformation. Journal of Bridge Engineering, 2016, 21, .	1.4	26
25	A physical model-free ant colony optimization network algorithm and full scale experimental investigation on ceiling temperature distribution in the utility tunnel fire. International Journal of Thermal Sciences, 2022, 174, 107436.	2.6	26
26	Experimental study on horizontal performance of multi-dimensional earthquake isolation and mitigation devices for long-span reticulated structures. JVC/Journal of Vibration and Control, 2012, 18, 941-952.	1.5	25
27	Parameters Design of TMD Mitigating Vortex-Induced Vibration of the Hong Kong–Zhuhai–Macao Bridge Deep-Water Nonnavigable Bridge. Journal of Bridge Engineering, 2019, 24, .	1.4	25
28	Optimization analysis on parameters of multi-dimensional earthquake isolation and mitigation device based on genetic algorithm. Nonlinear Dynamics, 2013, 72, 757-765.	2.7	22
29	A Compact Experimentally Validated Model of Magnetorheological Fluids. Journal of Vibration and Acoustics, Transactions of the ASME, 2016, 138, .	1.0	22
30	Intelligent Vibration Isolation and Mitigation of a Platform by Using MR and VE Devices. Journal of Aerospace Engineering, 2016, 29, .	0.8	21
31	Performance tests and modeling on high damping magnetorheological elastomers based on bromobutyl rubber. Journal of Intelligent Material Systems and Structures, 2018, 29, 1025-1037.	1.4	19
32	Experimental and theoretical study on a novel multi-dimensional vibration isolation and mitigation device for large-scale pipeline structure. Mechanical Systems and Signal Processing, 2019, 129, 546-567.	4.4	19
33	Performance tests and microstructureâ€based sigmoid model for a threeâ€coil magnetorheological damper. Structural Control and Health Monitoring, 2021, 28, e2819.	1.9	19
34	Testing and modeling of a CLEMR damper and its application in structural vibration reduction. Nonlinear Dynamics, 2012, 70, 1575-1588.	2.7	18
35	Study of the properties of a multi-dimensional earthquake isolation device for reticulated structures. Journal of Constructional Steel Research, 2013, 88, 63-78.	1.7	18
36	Simulation of stochastic wind field for large complex structures based on modified Fourier spectrum. Journal of Zhejiang University: Science A, 2011, 12, 238-246.	1.3	17

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37	BP neural network-based adaptive spatial-temporal data generation technology for predicting ceiling temperature in tunnel fire and full-scale experimental verification. Fire Safety Journal, 2022, 130, 103577.	1.4	16
38	An Improved Updatable Backpropagation Neural Network for Temperature Prognosis in Tunnel Fires. Journal of Performance of Constructed Facilities, 2022, 36, .	1.0	15
39	Damage Detection Strategy Using Strain-Mode Residual Trends for Long-Span Bridges. Journal of Computing in Civil Engineering, 2015, 29, .	2.5	14
40	Development of hybrid test system for three-dimensional viscoelastic damping frame structures based on Matlab-OpenSees combined programming. Soil Dynamics and Earthquake Engineering, 2021, 144, 106681.	1.9	14
41	Mathematical modeling and test verification of viscoelastic materials considering microstructures and ambient temperature influence. Mechanics of Advanced Materials and Structures, 2022, 29, 7063-7074.	1.5	13
42	Modeling and analysis of a viscoelastic micro-vibration isolation and mitigation platform for spacecraft. JVC/Journal of Vibration and Control, 2018, 24, 4337-4352.	1.5	12
43	Investigation of Mechanical and Damping Performances of Cylindrical Viscoelastic Dampers in Wide Frequency Range. Actuators, 2021, 10, 71.	1.2	12
44	Mitigation of Vortex-Induced Vibration in Bridges Using Semiactive Tuned Mass Dampers. Journal of Bridge Engineering, 2021, 26, .	1.4	12
45	Single-double chains micromechanical model and experimental verification of MR fluids with MWCNTs/GO composites coated ferromagnetic particles. Journal of Intelligent Material Systems and Structures, 2021, 32, 1523-1536.	1.4	12
46	Properties Tests and Mathematical Modeling of Viscoelastic Damper at Low Temperature With Fractional Order Derivative. Frontiers in Materials, 2019, 6, .	1.2	10
47	Theoretical and Experimental Research of Viscoelastic Damping Limb-Like-Structure Device with Coupling Nonlinear Characteristics. International Journal of Structural Stability and Dynamics, 2021, 21, .	1.5	10
48	Dynamic Properties and Energy Dissipation Study of Sandwich Viscoelastic Damper Considering Temperature Influence. Buildings, 2021, 11, 470.	1.4	10
49	A Fractional-Order Generalized Thermoelastic Problem of a Bilayer Piezoelectric Plate for Vibration Control. Journal of Heat Transfer, 2017, 139, .	1.2	9
50	Distributed Strain Damage Identification Technique for Long-Span Bridges Under Ambient Excitation. International Journal of Structural Stability and Dynamics, 2018, 18, 1850133.	1.5	9
51	Multidimensional vibration reduction control of the frame structure with magnetorheological damper. Structural Control and Health Monitoring, 2020, 27, e2572.	1.9	9
52	A continuum damage-based three-dimensional fracture simulation method for brittle-like materials. International Journal of Damage Mechanics, 2022, 31, 508-531.	2.4	9
53	Bistable inclined beam connected in series for quasi-zero stiffness. Mechanics of Advanced Materials and Structures, 2023, 30, 1285-1298.	1.5	9
54	Experimental and numerical studies on new multi-dimensional earthquake isolation and mitigation device: Horizontal properties. Science China Technological Sciences, 2010, 53, 2658-2667.	2.0	8

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55	Gradient Chain Structure Model for Characterizing Frequency Dependence of Viscoelastic Materials. Journal of Engineering Mechanics - ASCE, 2020, 146, .	1.6	8
56	An Intelligent Fire Detection Algorithm and Sensor Optimization Strategy for Utility Tunnel Fires. Journal of Pipeline Systems Engineering and Practice, 2022, 13, .	0.9	8
57	Robust control of vortexâ€induced vibration in flexible bridges using an active tuned mass damper. Structural Control and Health Monitoring, 2022, 29, .	1.9	8
58	Analysis on the disaster chain evolution from gas leak to explosion in urban utility tunnels. Engineering Failure Analysis, 2022, 140, 106609.	1.8	8
59	Tests and Modeling of a New Vibration Isolation and Suppression Device. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	7
60	Design parameters and materialâ€scale damage evolution of seismic upgraded RC frames by viscoelastic haunch bracingâ€dampers. Earthquake Engineering and Structural Dynamics, 2021, 50, 1476-1491.	2.5	7
61	Experimentally-Verified Micromechanical Model of MR Gels Based on Planar Current Loop Model. Journal of Engineering Mechanics - ASCE, 2021, 147, .	1.6	7
62	Study on the Iced Quad-Bundle Transmission Lines Incorporated With Viscoelastic Antigalloping Devices. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	0.9	6
63	Simultaneous identification of stiffness, mass, and damping using an on-line model updating approach. Structural Control and Health Monitoring, 2017, 24, e1892.	1.9	6
64	Nonstationary Seismic Responses of Nonlinear Structural Systems to Modulated Earthquake Excitations. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	6
65	Internal magnetic field tests and magnetic field coupling model of a three-coil magnetorheological damper. Journal of Intelligent Material Systems and Structures, 2020, 31, 2179-2195.	1.4	6
66	Seismic performance of viscoelastically damped structures at different ambient temperatures. JVC/Journal of Vibration and Control, 2021, 27, 2819-2834.	1.5	6
67	Microstructure-Based Equivalent Visco-Hyperelastic Model of Viscoelastic Damper. Journal of Engineering Mechanics - ASCE, 2022, 148, .	1.6	6
68	Effect of Control–Structure Interaction Using Torsional Servomotor for Active Tuned Mass Damper Control System. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	6
69	Identification of Multiple Fire Sources in the Utility Tunnel Based on a Constrained Particle Swarm Optimization Algorithm. Fire Technology, 2022, 58, 2825-2845.	1.5	6
70	Track-position and vibration control simulation for strut of the Stewart platform. Journal of Zhejiang University: Science A, 2013, 14, 281-291.	1.3	5
71	Preparation, Property Tests, and Limited Chain Model of Magnetorheological Fluid. Journal of Materials in Civil Engineering, 2015, 27, 04014229.	1.3	5
72	Experimental and Numerical Study on Dynamic Properties of Viscoelastic Microvibration Damper Considering Temperature and Frequency Effects. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	0.7	5

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73	Quasi-zero stiffness isolator based on bistable structures with variable cross-section. Journal of Low Frequency Noise Vibration and Active Control, 2022, 41, 405-416.	1.3	4
74	Experimental and theorical investigation on energy dissipation capacity of the viscoelastic limb-like-structure devices. Mechanics of Advanced Materials and Structures, 2023, 30, 2121-2134.	1.5	4
75	Experimental study on seismic performance of prefabricated viscoelastic damping bolted joints. Engineering Structures, 2022, 256, 113933.	2.6	4
76	Prediction of the Thermal Contact Resistance at the Steel-Concrete Interface of CFST Columns with Circular Cross-Section. Mechanics of Advanced Materials and Structures, 2012, 19, 530-542.	1.5	3
77	An in-time damage identification approach based on the Kalman filter and energy equilibrium theory. Journal of Zhejiang University: Science A, 2015, 16, 105-116.	1.3	3
78	Calculating moisture emissivity of timber members with different surface treatment. Construction and Building Materials, 2021, 269, 121253.	3.2	3
79	Study on Experiment and Modeling of Viscoelastic Damper Considering Interfacial Effect of Matrix Rubber/Carbon Black. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, .	0.8	3
80	Hybrid seismic isolation of vertical pressure vessels in CO2 capture plant. Structures, 2022, 39, 17-28.	1.7	3
81	A Two-Step Transformation Approach for ESS Model of Viscoelastic Material to Time Domain. Frontiers in Materials, 2019, 6, .	1.2	2
82	Three-dimensional dynamic analysis of ancient buildings with novel high damping isolation trenches. JVC/Journal of Vibration and Control, 2022, 28, 2409-2420.	1.5	2
83	Study of a Novel Nonlinear Viscoelastic Bio-Inspired Multi-Dimensional Vibration Isolation Device. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	2
84	Design and Experiment on Single-Chip Microprocessor for MRD Coupling Sensing and Control. International Journal of Distributed Sensor Networks, 2012, 8, 637989.	1.3	1
85	Vertical pseudo-dynamic experimental study on long-span reticulated structures with multi-dimensional earthquake isolation and mitigation devices. JVC/Journal of Vibration and Control, 2014, 20, 2326-2337.	1.5	1
86	Horizontal pseudo-dynamic experimental study on long-span reticulated structures with multi-dimensional earthquake isolation and mitigation devices. JVC/Journal of Vibration and Control, 2015, 21, 1086-1099.	1.5	1
87	The development and tests of remote data acquisition and transmission system on civil engineering structural vibration. Journal of Asian Architecture and Building Engineering, 2019, 18, 9-15.	1.2	1
88	A continuum damage-based computational methodology for crack growth simulation of metal films. Bulletin of Materials Science, 2021, 44, 1.	0.8	1
89	A physical minimum dissipative energy-based damage model for crack growth simulation of geoengineering structures. International Journal of Fracture, 2021, 231, 79.	1.1	1
90	A user-configurable electric actuator hybrid test platform: Development and applications for viscoelastic damping system seismic testing. Mechanics of Advanced Materials and Structures, 0, , 1-16.	1.5	1

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91	Stability of single-layer spherical reticulated shell with imperfections. , 2011, , .		0