

Xing-Huai Huang

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

1,910
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236833

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92
all docs

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docs citations

92
times ranked

909
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and theoretical investigation on energy dissipation capacity of the viscoelastic limb-like-structure devices. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 2121-2134.	1.5	4
2	Bistable inclined beam connected in series for quasi-zero stiffness. <i>Mechanics of Advanced Materials and Structures</i> , 2023, 30, 1285-1298.	1.5	9
3	Three-dimensional dynamic analysis of ancient buildings with novel high damping isolation trenches. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 2409-2420.	1.5	2
4	Quasi-zero stiffness isolator based on bistable structures with variable cross-section. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2022, 41, 405-416.	1.3	4
5	A continuum damage-based three-dimensional fracture simulation method for brittle-like materials. <i>International Journal of Damage Mechanics</i> , 2022, 31, 508-531.	2.4	9
6	Mathematical modeling and test verification of viscoelastic materials considering microstructures and ambient temperature influence. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 7063-7074.	1.5	13
7	A physical model-free ant colony optimization network algorithm and full scale experimental investigation on ceiling temperature distribution in the utility tunnel fire. <i>International Journal of Thermal Sciences</i> , 2022, 174, 107436.	2.6	26
8	Microstructure-Based Equivalent Visco-Hyperelastic Model of Viscoelastic Damper. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	6
9	Study of a Novel Nonlinear Viscoelastic Bio-Inspired Multi-Dimensional Vibration Isolation Device. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	1.5	2
10	An Improved Updatable Backpropagation Neural Network for Temperature Prognosis in Tunnel Fires. <i>Journal of Performance of Constructed Facilities</i> , 2022, 36, .	1.0	15
11	BP neural network-based adaptive spatial-temporal data generation technology for predicting ceiling temperature in tunnel fire and full-scale experimental verification. <i>Fire Safety Journal</i> , 2022, 130, 103577.	1.4	16
12	Experimental study on seismic performance of prefabricated viscoelastic damping bolted joints. <i>Engineering Structures</i> , 2022, 256, 113933.	2.6	4
13	Hybrid seismic isolation of vertical pressure vessels in CO2 capture plant. <i>Structures</i> , 2022, 39, 17-28.	1.7	3
14	An Intelligent Fire Detection Algorithm and Sensor Optimization Strategy for Utility Tunnel Fires. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2022, 13, .	0.9	8
15	Robust control of vortex-induced vibration in flexible bridges using an active tuned mass damper. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	8
16	Effect of Control-Structure Interaction Using Torsional Servomotor for Active Tuned Mass Damper Control System. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	1.5	6
17	Identification of Multiple Fire Sources in the Utility Tunnel Based on a Constrained Particle Swarm Optimization Algorithm. <i>Fire Technology</i> , 2022, 58, 2825-2845.	1.5	6
18	Analysis on the disaster chain evolution from gas leak to explosion in urban utility tunnels. <i>Engineering Failure Analysis</i> , 2022, 140, 106609.	1.8	8

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19	Seismic performance of viscoelastically damped structures at different ambient temperatures. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 2819-2834.	1.5	6
20	Optimal design of tuned mass damper inerter with a Maxwell element for mitigating the vortex-induced vibration in bridges. <i>Mechanical Systems and Signal Processing</i> , 2021, 148, 107180.	4.4	73
21	Dynamic Analysis and Parameter Optimization of Pipelines with Multidimensional Vibration Isolation and Mitigation Device. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021, 12, .	0.9	48
22	Design parameters and materialâ€scale damage evolution of seismic upgraded RC frames by viscoelastic haunch bracingâ€dampers. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 1476-1491.	2.5	7
23	Calculating moisture emissivity of timber members with different surface treatment. <i>Construction and Building Materials</i> , 2021, 269, 121253.	3.2	3
24	Investigation of Mechanical and Damping Performances of Cylindrical Viscoelastic Dampers in Wide Frequency Range. <i>Actuators</i> , 2021, 10, 71.	1.2	12
25	Study on Experiment and Modeling of Viscoelastic Damper Considering Interfacial Effect of Matrix Rubber/Carbon Black. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2021, 143, .	0.8	3
26	Development of hybrid test system for three-dimensional viscoelastic damping frame structures based on Matlab-OpenSees combined programming. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 144, 106681.	1.9	14
27	Mitigation of Vortex-Induced Vibration in Bridges Using Semiactive Tuned Mass Dampers. <i>Journal of Bridge Engineering</i> , 2021, 26, .	1.4	12
28	Performance tests and microstructureâ€based sigmoid model for a threeâ€coil magnetorheological damper. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2819.	1.9	19
29	A continuum damage-based computational methodology for crack growth simulation of metal films. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	0.8	1
30	Theoretical and Experimental Research of Viscoelastic Damping Limb-Like-Structure Device with Coupling Nonlinear Characteristics. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, .	1.5	10
31	Experimentally-Verified Micromechanical Model of MR Gels Based on Planar Current Loop Model. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	1.6	7
32	A physical minimum dissipative energy-based damage model for crack growth simulation of geoenvironment structures. <i>International Journal of Fracture</i> , 2021, 231, 79.	1.1	1
33	Damage Identification of Pipeline Based on Ultrasonic Guided Wave and Wavelet Denoising. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021, 12, .	0.9	32
34	Novel Data-Driven Framework for Predicting Residual Strength of Corroded Pipelines. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2021, 12, .	0.9	45
35	Single-double chains micromechanical model and experimental verification of MR fluids with MWCNTs/GO composites coated ferromagnetic particles. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1523-1536.	1.4	12
36	Dynamic Properties and Energy Dissipation Study of Sandwich Viscoelastic Damper Considering Temperature Influence. <i>Buildings</i> , 2021, 11, 470.	1.4	10

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37	Internal magnetic field tests and magnetic field coupling model of a three-coil magnetorheological damper. <i>Journal of Intelligent Material Systems and Structures</i> , 2020, 31, 2179-2195.	1.4	6
38	Experimental and Theoretical Study of High-Energy Dissipation-Viscoelastic Dampers Based on Acrylate-Rubber Matrix. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, .	1.6	80
39	Multidimensional vibration reduction control of the frame structure with magnetorheological damper. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2572.	1.9	9
40	Gradient Chain Structure Model for Characterizing Frequency Dependence of Viscoelastic Materials. <i>Journal of Engineering Mechanics - ASCE</i> , 2020, 146, .	1.6	8
41	Properties Tests and Mathematical Modeling of Viscoelastic Damper at Low Temperature With Fractional Order Derivative. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	10
42	Seismic behavior and damage evolution for retrofitted RC frames using haunch viscoelastic damping braces. <i>Engineering Structures</i> , 2019, 199, 109583.	2.6	29
43	Nonstationary Seismic Responses of Nonlinear Structural Systems to Modulated Earthquake Excitations. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	1.6	6
44	Parameters Design of TMD Mitigating Vortex-Induced Vibration of the Hong Kongâ€“Zhuhaiâ€“Macao Bridge Deep-Water Nonnavigable Bridge. <i>Journal of Bridge Engineering</i> , 2019, 24, .	1.4	25
45	Experimental and theoretical study on a novel multi-dimensional vibration isolation and mitigation device for large-scale pipeline structure. <i>Mechanical Systems and Signal Processing</i> , 2019, 129, 546-567.	4.4	19
46	The development and tests of remote data acquisition and transmission system on civil engineering structural vibration. <i>Journal of Asian Architecture and Building Engineering</i> , 2019, 18, 9-15.	1.2	1
47	Parameters optimization of vibration isolation and mitigation system for precision platforms using non-dominated sorting genetic algorithm. <i>Mechanical Systems and Signal Processing</i> , 2019, 128, 191-201.	4.4	80
48	A Two-Step Transformation Approach for ESS Model of Viscoelastic Material to Time Domain. <i>Frontiers in Materials</i> , 2019, 6, .	1.2	2
49	Wind vibration control of stay cables using magnetorheological dampers under optimal equivalent control algorithm. <i>Journal of Sound and Vibration</i> , 2019, 443, 732-747.	2.1	40
50	Performance tests and modeling on high damping magnetorheological elastomers based on bromobutyl rubber. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1025-1037.	1.4	19
51	Modeling and analysis of a viscoelastic micro-vibration isolation and mitigation platform for spacecraft. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 4337-4352.	1.5	12
52	Distributed Strain Damage Identification Technique for Long-Span Bridges Under Ambient Excitation. <i>International Journal of Structural Stability and Dynamics</i> , 2018, 18, 1850133.	1.5	9
53	Simultaneous identification of stiffness, mass, and damping using an on-line model updating approach. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1892.	1.9	6
54	A Fractional-Order Generalized Thermoelastic Problem of a Bilayer Piezoelectric Plate for Vibration Control. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	9

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55	Experimental and theoretical study on a building structure controlled by multi-dimensional earthquake isolation and mitigation devices. <i>Nonlinear Dynamics</i> , 2017, 89, 723-740.	2.7	30
56	Tests and Modeling of a New Vibration Isolation and Suppression Device. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	7
57	Experimental and Numerical Study on Dynamic Properties of Viscoelastic Microvibration Damper Considering Temperature and Frequency Effects. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	5
58	Vibration suppression on a platform by using vibration isolation and mitigation devices. <i>Nonlinear Dynamics</i> , 2016, 83, 1341-1353.	2.7	44
59	A Compact Experimentally Validated Model of Magnetorheological Fluids. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.0	22
60	Safety and Stability of Light-Rail Train Running on Multispan Bridges with Deformation. <i>Journal of Bridge Engineering</i> , 2016, 21, .	1.4	26
61	Intelligent Vibration Isolation and Mitigation of a Platform by Using MR and VE Devices. <i>Journal of Aerospace Engineering</i> , 2016, 29, .	0.8	21
62	Study on the Iced Quad-Bundle Transmission Lines Incorporated With Viscoelastic Antigalloping Devices. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, .	0.9	6
63	Preparation, Property Tests, and Limited Chain Model of Magnetorheological Fluid. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, 04014229.	1.3	5
64	An in-time damage identification approach based on the Kalman filter and energy equilibrium theory. <i>Journal of Zhejiang University: Science A</i> , 2015, 16, 105-116.	1.3	3
65	Horizontal pseudo-dynamic experimental study on long-span reticulated structures with multi-dimensional earthquake isolation and mitigation devices. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 1086-1099.	1.5	1
66	Damage Detection Strategy Using Strain-Mode Residual Trends for Long-Span Bridges. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .	2.5	14
67	Equivalent fractional Kelvin model and experimental study on viscoelastic damper. <i>JVC/Journal of Vibration and Control</i> , 2015, 21, 2536-2552.	1.5	80
68	Vertical pseudo-dynamic experimental study on long-span reticulated structures with multi-dimensional earthquake isolation and mitigation devices. <i>JVC/Journal of Vibration and Control</i> , 2014, 20, 2326-2337.	1.5	1
69	Viscoelastic Properties of Magnetorheological Elastomers for Damping Applications. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 1116-1125.	1.7	31
70	Design, performance test and analysis on magnetorheological damper for earthquake mitigation. <i>Structural Control and Health Monitoring</i> , 2013, 20, 956-970.	1.9	70
71	Optimization analysis on parameters of multi-dimensional earthquake isolation and mitigation device based on genetic algorithm. <i>Nonlinear Dynamics</i> , 2013, 72, 757-765.	2.7	22
72	Track-position and vibration control simulation for strut of the Stewart platform. <i>Journal of Zhejiang University: Science A</i> , 2013, 14, 281-291.	1.3	5

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73	Study of the properties of a multi-dimensional earthquake isolation device for reticulated structures. <i>Journal of Constructional Steel Research</i> , 2013, 88, 63-78.	1.7	18
74	Experimental study on vertical performance of multidimensional earthquake isolation and mitigation devices for long-span reticulated structures. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 1971-1985.	1.5	31
75	Performance tests and mathematical model considering magnetic saturation for magnetorheological damper. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 1331-1349.	1.4	48
76	Design and Experiment on Single-Chip Microprocessor for MRD Coupling Sensing and Control. <i>International Journal of Distributed Sensor Networks</i> , 2012, 8, 637989.	1.3	1
77	Prediction of the Thermal Contact Resistance at the Steel-Concrete Interface of CFST Columns with Circular Cross-Section. <i>Mechanics of Advanced Materials and Structures</i> , 2012, 19, 530-542.	1.5	3
78	Damage Detection for Space Truss Structures Based on Strain Mode under Ambient Excitation. <i>Journal of Engineering Mechanics - ASCE</i> , 2012, 138, 1215-1223.	1.6	40
79	Testing and modeling of a CLEMR damper and its application in structural vibration reduction. <i>Nonlinear Dynamics</i> , 2012, 70, 1575-1588.	2.7	18
80	Experimental study on horizontal performance of multi-dimensional earthquake isolation and mitigation devices for long-span reticulated structures. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 941-952.	1.5	25
81	Energy Damage Detection Strategy Based on Strain Responses for Long-Span Bridge Structures. <i>Journal of Bridge Engineering</i> , 2011, 16, 644-652.	1.4	52
82	Simulation of stochastic wind field for large complex structures based on modified Fourier spectrum. <i>Journal of Zhejiang University: Science A</i> , 2011, 12, 238-246.	1.3	17
83	Stability of single-layer spherical reticulated shell with imperfections. , 2011, , .		0
84	Experimental and numerical studies on new multi-dimensional earthquake isolation and mitigation device: Horizontal properties. <i>Science China Technological Sciences</i> , 2010, 53, 2658-2667.	2.0	8
85	Horizontal shaking table tests on structures using innovative earthquake mitigation devices. <i>Journal of Sound and Vibration</i> , 2009, 325, 34-48.	2.1	27
86	Neuro-fuzzy control strategy for earthquake-excited nonlinear magnetorheological structures. <i>Soil Dynamics and Earthquake Engineering</i> , 2008, 28, 717-727.	1.9	45
87	Earthquake Mitigation Study on Viscoelastic Dampers for Reinforced Concrete Structures. <i>JVC/Journal of Vibration and Control</i> , 2007, 13, 29-43.	1.5	95
88	Energy damage detection strategy based on acceleration responses for long-span bridge structures. <i>Engineering Structures</i> , 2007, 29, 609-617.	2.6	65
89	Optimal analysis and experimental study on structures with viscoelastic dampers. <i>Journal of Sound and Vibration</i> , 2004, 273, 607-618.	2.1	45
90	A synthetic optimization analysis method on structures with viscoelastic dampers. <i>Soil Dynamics and Earthquake Engineering</i> , 2003, 23, 683-689.	1.9	47

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91	A user-configurable electric actuator hybrid test platform: Development and applications for viscoelastic damping system seismic testing. <i>Mechanics of Advanced Materials and Structures</i> , 0, , 1-16.	1.5	1