

Zheng Lu

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,798
citations

279798

23
h-index

289244

40
g-index

72
all docs

72
docs citations

72
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Studies on the damping mechanism of shape memory alloy-spring tuned vibration absorber attached to a multi-degree-of-freedom structure. <i>JVC/Journal of Vibration and Control</i> , 2022, 28, 2666-2677.	2.6	2
2	Visualâ€inertial structural acceleration measurement. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 1146-1159.	9.8	8
3	Experimental and analytical studies of the dynamic behavior of particle dampers prepared with waste cementâ€based materials. <i>Structural Concrete</i> , 2022, 23, 4038-4057.	3.1	3
4	Shaking Table Test and Parameter Analysis on Vibration Control of a New Damping System (PDAL). <i>Buildings</i> , 2022, 12, 896.	3.1	5
5	Multi-objective optimization and seismic performance verification of multiple tuned impact dampers for nonlinear benchmark building. <i>Structures</i> , 2022, 41, 1672-1686.	3.6	1
6	Analytical and experimental studies on particle damper used for tremor suppression. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 2887-2897.	2.6	7
7	Study on the influence of structural nonlinearity on the performance of multiunit impact damper. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 197-207.	2.6	1
8	Experimental Investigation of the Seismic Behavior of Low-Yield-Point Corrugated Steel Plate Dampers. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	11
9	Homographyâ€based structural displacement measurement for large structures using unmanned aerial vehicles. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2021, 36, 1114-1128.	9.8	52
10	Experimental study on seismic performance of precast hollow shear walls. <i>Structural Design of Tall and Special Buildings</i> , 2021, 30, e1856.	1.9	7
11	Experimental and Numerical Study of the Performance of Self-Centering Frame Structures Subjected to Debris-Flow Impacts. <i>Journal of Structural Engineering</i> , 2021, 147, .	3.4	2
12	Study on Feasibility of Photovoltaic Power to Grid Parity in China Based on LCOE. <i>Sustainability</i> , 2021, 13, 12762.	3.2	6
13	Shaking table test and numerical simulation of the vibration control performance of a tuned mass damper on a transmission tower. <i>Structure and Infrastructure Engineering</i> , 2020, , 1-15.	3.7	6
14	Effectiveness of particle tuned mass damper devices for pileâ€supported multiâ€story frames under seismic excitations. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2627.	4.0	14
15	Vibration Analysis of Coupled Multilayer Structures with Discrete Connections for Noise Prediction. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2050051.	2.4	6
16	Experimental Study on Performance of Frame Structure Strengthened with Foamed Aluminum under Debris Flow Impact. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	2.0	8
17	Largeâ€scale shaking table test on pileâ€soilâ€structure interaction on soft soils. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1679.	1.9	21
18	Experimental study on seismic performance of Tâ€shaped partly precast reinforced concrete shear wall with grouting sleeves. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1632.	1.9	35

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19	Seismic fragility assessment of a super tall building with hybrid control strategy using IDA method. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 123, 278-291.	3.8	47
20	Time-Frequency Energy Distribution of Ground Motion and Its Effect on the Dynamic Response of Nonlinear Structures. <i>Sustainability</i> , 2019, 11, 702.	3.2	7
21	Experimental Study and Numerical Simulation on Hybrid Coupled Shear Wall with Replaceable Coupling Beams. <i>Sustainability</i> , 2019, 11, 867.	3.2	4
22	Experimental study on seismic performance of L-shaped partly precast reinforced concrete shear wall with cast-in-situ boundary elements. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1602.	1.9	15
23	Shaking table tests and numerical analysis of an over-track multi-tower building. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 230-243.	3.7	15
24	Experimental study on seismic performance of L-shaped insulated concrete sandwich shear wall with a horizontal seam. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1551.	1.9	23
25	Shaking table test and numerical simulation on vibration control effects of TMD with different mass ratios on a super high-rise structure. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1470.	1.9	13
26	Experimental study of L-shaped precast RC shear walls with middle cast-in-situ joint. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1457.	1.9	21
27	Discrete element method-based collapse simulation, validation and application to frame structures. <i>Structure and Infrastructure Engineering</i> , 2018, 14, 538-549.	3.7	8
28	Particle impact dampers: Past, present, and future. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2058.	4.0	151
29	An equivalent method for optimization of particle tuned mass damper based on experimental parametric study. <i>Journal of Sound and Vibration</i> , 2018, 419, 571-584.	3.9	62
30	A review of the diagrid structural system for tall buildings. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1445.	1.9	46
31	Theoretical study and experimental validation on the energy dissipation mechanism of particle dampers. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2125.	4.0	43
32	Study on self-adjustable tuned mass damper with variable mass. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2114.	4.0	57
33	Shaking table test and numerical simulation of a superimposed reinforced concrete shear wall structure. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1412.	1.9	28
34	Influence of soil-structure interaction on performance of a super tall building using a new eddy-current tuned mass damper. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1501.	1.9	15
35	Dispersion, Workability and Mechanical Properties of Different Steel-Microfiber-Reinforced Concretes with Low Fiber Content. <i>Sustainability</i> , 2018, 10, 2335.	3.2	11
36	Numerical Simulation and In-Situ Measurement of Ground-Borne Vibration Due to Subway System. <i>Sustainability</i> , 2018, 10, 2439.	3.2	12

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37	Experimental Comparison of Dynamic Behavior of Structures with a Particle Damper and a Tuned Mass Damper. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	11
38	Performance-based seismic analysis on a super high-rise building with improved viscously damped outrigger system. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2190.	4.0	29
39	An improved design method of a tuned mass damper for an in-service footbridge. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
40	Shaking table test and numerical simulation on a vertical hybrid structure under seismic excitation. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1497.	1.9	11
41	Shaking table test and theoretical analysis of the pile-“soil”-structure interaction at a liquefiable site. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1513.	1.9	15
42	Experimental and numerical study on vibration control effects of a compound mass damper. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1511.	1.9	4
43	Parametric Study on Dynamic Response of FRP Masonry Structures under the Impacts of Debris Flow. <i>Shock and Vibration</i> , 2018, 2018, 1-20.	0.6	2
44	Study on Adaptive-Passive and Semi-Active Eddy Current Tuned Mass Damper with Variable Damping. <i>Sustainability</i> , 2018, 10, 99.	3.2	18
45	Shaking table test on vibration control effects of a monopile offshore wind turbine with a tuned mass damper. <i>Wind Energy</i> , 2018, 21, 1309-1328.	4.2	46
46	Application of an Artificial Fish Swarm Algorithm in an Optimum Tuned Mass Damper Design for a Pedestrian Bridge. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 175.	2.5	32
47	Seismic Performance of a New Type of Fabricated Tie-Column. <i>Sustainability</i> , 2018, 10, 1716.	3.2	2
48	Studies on Energy Dissipation Mechanism of an Innovative Viscous Damper Filled with Oil and Silt. <i>Sustainability</i> , 2018, 10, 1777.	3.2	4
49	Comparative Studies on Structures with a Tuned Mass Damper and a Particle Damper. <i>Journal of Aerospace Engineering</i> , 2018, 31, .	1.4	19
50	Experimental parametric study on wind-induced vibration control of particle tuned mass damper on a benchmark high-rise building. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1359.	1.9	70
51	Numerical analysis of a shaking table test on dynamic structure-“soil”-structure interaction under earthquake excitations. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1382.	1.9	23
52	Optimization design and experimental verification of track nonlinear energy sink for vibration control under seismic excitation. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2033.	4.0	80
53	Experimental investigation on dynamic characterization and seismic control performance of a TLPD system. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1350.	1.9	39
54	Studies on passive flexible protection to resist landslides caused by the May 12, 2008, Wenchuan earthquake. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1372.	1.9	9

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55	Studies on damping behavior of vertically mixed structures with upper steel and lower concrete substructures. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1392.	1.9	20
56	Experimental and analytical study on the performance of particle tuned mass dampers under seismic excitation. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 697-714.	4.4	129
57	Study on Dynamic Response of Novel Masonry Structures Impacted by Debris Flow. <i>Sustainability</i> , 2017, 9, 1122.	3.2	10
58	Studies on Pounding Response Considering Structure-Soil-Structure Interaction under Seismic Loads. <i>Sustainability</i> , 2017, 9, 2219.	3.2	24
59	Preliminary Study on the Damping Effect of a Lateral Damping Buffer under a Debris Flow Load. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 201.	2.5	32
60	Studies on Seismic Performance of Precast Concrete Columns with Grouted Splice Sleeve. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 571.	2.5	32
61	Experimental Study on the Performance of Polyurethane-Steel Sandwich Structure under Debris Flow. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1018.	2.5	13
62	Base Pounding Model and Response Analysis of Base-Isolated Structures under Earthquake Excitation. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 1238.	2.5	18
63	Experimental Study and Numerical Simulation of a Laminated Reinforced Concrete Shear Wall with a Vertical Seam. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 629.	2.5	34
64	Shaking table test and numerical simulation of an RC frameâ€œcore tube structure for earthquakeâ€œinduced collapse. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1537-1556.	4.4	69
65	Responses of Liquefiable Soils in Pile Group Foundations of Tall Buildings from Shaking Table Tests. <i>Journal of Asian Architecture and Building Engineering</i> , 2016, 15, 311-318.	2.0	8
66	An experimental study of vibration control of wind-excited high-rise buildings using particle tuned mass dampers. <i>Smart Structures and Systems</i> , 2016, 18, 93-115.	1.9	87
67	Comparison Study of Vibration Control Effects between Suspended Tuned Mass Damper and Particle Damper. <i>Shock and Vibration</i> , 2014, 2014, 1-7.	0.6	12
68	Discrete element method simulation and experimental validation of particle damper system. <i>Engineering Computations</i> , 2014, 31, 810-823.	1.4	52
69	Shaking table test of the effects of multiâ€œunit particle dampers attached to an MDOF system under earthquake excitation. <i>Earthquake Engineering and Structural Dynamics</i> , 2012, 41, 987-1000.	4.4	66
70	Horizontal deformation and construction analysis of frameâ€œeccentric core tube structure. <i>Structural Design of Tall and Special Buildings</i> , 0, , .	1.9	1