

Ruifu Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,697
citations

304368

22
h-index

288905

40
g-index

55
all docs

55
docs citations

55
times ranked

520
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic response mitigation of a wind turbine tower using a tuned parallel inerter mass system. <i>Engineering Structures</i> , 2019, 180, 29-39.	2.6	167
2	Demand-based optimal design of oscillator with parallel-layout viscous inerter damper. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2051.	1.9	100
3	Design of structure with inerter system based on stochastic response mitigation ratio. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2169.	1.9	98
4	Seismic response mitigation of structures with a friction pendulum inerter system. <i>Engineering Structures</i> , 2019, 193, 110-120.	2.6	90
5	Damping enhancement principle of inerter system. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2523.	1.9	86
6	A tuned liquid inerter system for vibration control. <i>International Journal of Mechanical Sciences</i> , 2019, 164, 105171.	3.6	84
7	Mitigation of liquid sloshing in storage tanks by using a hybrid control method. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 90, 183-195.	1.9	79
8	Optimal design based on analytical solution for storage tank with inerter isolation system. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 129, 105924.	1.9	73
9	Optimal design and seismic performance of tuned fluid inerter applied to structures with friction pendulum isolators. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 132, 106099.	1.9	65
10	Influence of mechanical layout of inerter systems on seismic mitigation of storage tanks. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 114, 639-649.	1.9	64
11	Optimal design of an inerter isolation system considering the soil condition. <i>Engineering Structures</i> , 2019, 196, 109324.	2.6	57
12	Energy dissipation mechanism of inerter systems. <i>International Journal of Mechanical Sciences</i> , 2020, 184, 105845.	3.6	54
13	Impact of soil-structure interaction on structures with inerter system. <i>Journal of Sound and Vibration</i> , 2018, 433, 1-15.	2.1	48
14	Seismic analysis of a LNG storage tank isolated by a multiple friction pendulum system. <i>Earthquake Engineering and Engineering Vibration</i> , 2011, 10, 253-262.	1.1	42
15	Baseline correction of vibration acceleration signals with inconsistent initial velocity and displacement. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667553.	0.8	40
16	A practical design method for reinforced concrete structures with viscous dampers. <i>Engineering Structures</i> , 2012, 39, 187-198.	2.6	39
17	Target-based algorithm for baseline correction of inconsistent vibration signals. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 2562-2575.	1.5	37
18	A particle inerter system for structural seismic response mitigation. <i>Journal of the Franklin Institute</i> , 2019, 356, 7669-7688.	1.9	37

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19	Comfort based floor design employing tuned inerter mass system. <i>Journal of Sound and Vibration</i> , 2019, 458, 143-157.	2.1	31
20	Direct design method based on seismic capacity redundancy for structures with metal yielding dampers. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 515-534.	2.5	28
21	Simplified design of elastoplastic structures with metallic yielding dampers based on the concept of uniform damping ratio. <i>Engineering Structures</i> , 2018, 176, 734-745.	2.6	26
22	Simple design method of structure with metallic yielding dampers based on elastic-plastic response reduction curve. <i>Engineering Structures</i> , 2017, 150, 98-114.	2.6	24
23	Displacement mitigation-oriented design and mechanism for inerter-based isolation system. <i>JVC/Journal of Vibration and Control</i> , 2021, 27, 1991-2003.	1.5	23
24	Theoretical analysis and experimental research on toggle-brace-damper system considering different installation modes. <i>Scientia Iranica</i> , 2012, 19, 1379-1390.	0.3	20
25	A novel shape memory alloy damping inerter for vibration mitigation. <i>Smart Materials and Structures</i> , 2019, 28, 115002.	1.8	20
26	Structural safety redundancy-based design method for structure with viscous dampers. <i>Structural Engineering and Mechanics</i> , 2016, 59, 821-840.	1.0	20
27	Analytical optimization of the tuned viscous mass damper under impulsive excitations. <i>International Journal of Mechanical Sciences</i> , 2022, 228, 107472.	3.6	18
28	Input energy reduction principle of structures with generic tuned mass damper inerter. <i>Structural Control and Health Monitoring</i> , 2021, 28, .	1.9	17
29	Simplified multimode control of seismic response of high-rise chimneys using distributed tuned mass inerter systems (TMIS). <i>Engineering Structures</i> , 2021, 228, 111550.	2.6	17
30	Targeted modal response control of structures using inerter systems based on master oscillator principle. <i>International Journal of Mechanical Sciences</i> , 2021, 206, 106636.	3.6	16
31	A design method of viscoelastic damper parameters based on the elastic-plastic response reduction curve. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 117, 149-163.	1.9	14
32	Displacement-Dependent Damping Inerter System for Seismic Response Control. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 257.	1.3	14
33	Seismic response reduction of elastoplastic structures with inerter systems. <i>Engineering Structures</i> , 2021, 230, 111661.	2.6	14
34	Closed-form design formulae for seismically isolated structure with a damping enhanced inerter system. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2840.	1.9	13
35	Cross-Layer Installed Cable-Bracing Inerter System for MDOF Structure Seismic Response Control. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5914.	1.3	12
36	Simplified Design Method for Structure with Viscous Damper Based on the Specified Damping Distribution Pattern. <i>Journal of Earthquake Engineering</i> , 2022, 26, 1367-1387.	1.4	12

#	ARTICLE	IF	CITATIONS
37	Interaction of Two Adjacent Structures Coupled by Inerter-based System considering Soil Conditions. <i>Journal of Earthquake Engineering</i> , 2022, 26, 2867-2887.	1.4	10
38	Uniform damping ratio-based design method for seismic retrofitting of elastoplastic RC structures using viscoelastic dampers. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 128, 105866.	1.9	9
39	Design method of structural retrofitting using viscous dampers based on elastic-plastic response reduction curve. <i>Engineering Structures</i> , 2020, 208, 109917.	2.6	9
40	Shaking table experiment on a steel storage tank with multiple friction pendulum bearings. <i>Structural Engineering and Mechanics</i> , 2014, 52, 875-887.	1.0	9
41	Influence of mechanical layout of shape memory alloy damping inerter (SDI) systems for vibration control. <i>Smart Materials and Structures</i> , 2021, 30, 085021.	1.8	8
42	Seismic retrofitting of a historic building by using an isolation system with a weak restoring force. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 148, 106836.	1.9	7
43	A novel crank inerter with simple realization: Constitutive model, experimental investigation and effectiveness assessment. <i>Engineering Structures</i> , 2022, 262, 114308.	2.6	7
44	Assessment of the seismic effect of insulation on extra-large cryogenic liquid natural gas storage tanks. <i>Journal of Loss Prevention in the Process Industries</i> , 2014, 30, 9-16.	1.7	6
45	Variable friction-tuned viscous mass damper and power-flow-based control. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	6
46	Generating high spectral consistent endurance time excitations by a modified time-domain spectral matching method. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 145, 106708.	1.9	5
47	Optimal design of inerter systems for the force-transmission suppression of oscillating structures. <i>Earthquake Engineering and Engineering Vibration</i> , 2022, 21, 441-454.	1.1	5
48	A Hybrid Control Method to Reduce the Seismic Response of a Liquid Storage Tank. , 2016, , .		4
49	Estimation of Additional Equivalent Damping Ratio of the Damped Structure Based on Energy Dissipation. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-14.	0.4	3
50	Design of MDOF structure with damping enhanced inerter systems. <i>Bulletin of Earthquake Engineering</i> , 2023, 21, 1685-1711.	2.3	3
51	Application of Annular Damper Reaction Wall in Seismic Isolated LNG Tank. , 2010, , .		2
52	Demand-Based Optimal Design of Storage Tank with Inerter System. <i>Shock and Vibration</i> , 2017, 2017, 1-14.	0.3	2
53	Editorial for "Recent Advances in the Design of Structures with Passive Energy Dissipation Systems". <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2819.	1.3	2
54	Simplified variational iteration method for solving ordinary differential equations and eigenvalue problems. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401668146.	0.8	1

#	ARTICLE	IF	CITATIONS
55	The Seismic Response Analysis of LNG Storage Tank Isolated by Multiple Friction Pendulum System. , 2011, , .		0