

Ruifu Zhang

List of Publications by Year in descending order

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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	Design of MDOF structure with damping enhanced inerter systems. <i>Bulletin of Earthquake Engineering</i> , 2023, 21, 1685-1711.	2.3	3
2	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
3	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
4	Variable friction-tuned viscous mass damper and power-flow-based control. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	1.9	6
5	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
6	A novel crank inerter with simple realization: Constitutive model, experimental investigation and effectiveness assessment. <i>Engineering Structures</i> , 2022, 262, 114308.	2.6	7
7	Analytical optimization of the tuned viscous mass damper under impulsive excitations. <i>International Journal of Mechanical Sciences</i> , 2022, 228, 107472.	3.6	18
8	Input energy reduction principle of structures with generic tuned mass damper inerter. <i>Structural Control and Health Monitoring</i> , 2021, 28, .	1.9	17
9	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
10	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
11	Seismic response reduction of elastoplastic structures with inerter systems. <i>Engineering Structures</i> , 2021, 230, 111661.	2.6	14
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	Displacement-Dependent Damping Inerter System for Seismic Response Control. Applied Sciences (Switzerland), 2020, 10, 257.	1.3	14
20	Design method of structural retrofitting using viscous dampers based on elastic-plastic response reduction curve. Engineering Structures, 2020, 208, 109917.	2.6	9
21	Cross-Layer Installed Cable-Bracing Inerter System for MDOF Structure Seismic Response Control. Applied Sciences (Switzerland), 2020, 10, 5914.	1.3	12
22	Energy dissipation mechanism of inerter systems. International Journal of Mechanical Sciences, 2020, 184, 105845.	3.6	54
23	Optimal design and seismic performance of tuned fluid inerter applied to structures with friction pendulum isolators. Soil Dynamics and Earthquake Engineering, 2020, 132, 106099.	1.9	65
24	Damping enhancement principle of inerter system. Structural Control and Health Monitoring, 2020, 27, e2523.	1.9	86
25	Editorial for "Recent Advances in the Design of Structures with Passive Energy Dissipation Systems". Applied Sciences (Switzerland), 2020, 10, 2819.	1.3	2
26	Comfort based floor design employing tuned inerter mass system. Journal of Sound and Vibration, 2019, 458, 143-157.	2.1	31
27	A tuned liquid inerter system for vibration control. International Journal of Mechanical Sciences, 2019, 164, 105171.	3.6	84
28	A novel shape memory alloy damping inerter for vibration mitigation. Smart Materials and Structures, 2019, 28, 115002.	1.8	20
29	Estimation of Additional Equivalent Damping Ratio of the Damped Structure Based on Energy Dissipation. Advances in Civil Engineering, 2019, 2019, 1-14.	0.4	3
30	Optimal design of an inerter isolation system considering the soil condition. Engineering Structures, 2019, 196, 109324.	2.6	57
31	Seismic response mitigation of structures with a friction pendulum inerter system. Engineering Structures, 2019, 193, 110-120.	2.6	90
32	A particle inerter system for structural seismic response mitigation. Journal of the Franklin Institute, 2019, 356, 7669-7688.	1.9	37
33	A design method of viscoelastic damper parameters based on the elastic-plastic response reduction curve. Soil Dynamics and Earthquake Engineering, 2019, 117, 149-163.	1.9	14
34	Seismic response mitigation of a wind turbine tower using a tuned parallel inerter mass system. Engineering Structures, 2019, 180, 29-39.	2.6	167
35	Design of structure with inerter system based on stochastic response mitigation ratio. Structural Control and Health Monitoring, 2018, 25, e2169.	1.9	98
36	Target-based algorithm for baseline correction of inconsistent vibration signals. JVC/Journal of Vibration and Control, 2018, 24, 2562-2575.	1.5	37

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37	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
38	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
39	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
40	Impact of soil-structure interaction on structures with inerter system. <i>Journal of Sound and Vibration</i> , 2018, 433, 1-15.	2.1	48
41	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
42	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
43	Demand-Based Optimal Design of Storage Tank with Inerter System. <i>Shock and Vibration</i> , 2017, 2017, 1-14.	0.3	2
44	Baseline correction of vibration acceleration signals with inconsistent initial velocity and displacement. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401667553.	0.8	40
45	Simplified variational iteration method for solving ordinary differential equations and eigenvalue problems. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401668146.	0.8	1
46	A Hybrid Control Method to Reduce the Seismic Response of a Liquid Storage Tank. , 2016, , .		4
47	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
48	Structural safety redundancy-based design method for structure with viscous dampers. <i>Structural Engineering and Mechanics</i> , 2016, 59, 821-840.	1.0	20
49	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
50	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
51	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
52	A practical design method for reinforced concrete structures with viscous dampers. <i>Engineering Structures</i> , 2012, 39, 187-198.	2.6	39
53	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
54	The Seismic Response Analysis of LNG Storage Tank Isolated by Multiple Friction Pendulum System. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	Application of Annular Damper Reaction Wall in Seismic Isolated LNG Tank. , 2010, , .		2