

Shiang-Jung Wang

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

509
citations

759233

12
h-index

677142

22
g-index

36
all docs

36
docs citations

36
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic materials-based vibration attenuation in layered foundations: experimental validation. <i>Smart Materials and Structures</i> , 2012, 21, 112003.	3.5	109
2	Simplified analysis of mid-story seismically isolated buildings. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 119-133.	4.4	46
3	Dynamic behavior of a building structure tested with base and mid-story isolation systems. <i>Engineering Structures</i> , 2012, 42, 420-433.	5.3	42
4	Sloped multi-roller isolation devices for seismic protection of equipment and facilities. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 1443-1461.	4.4	40
5	Seismic isolation of small modular reactors using metamaterials. <i>AIP Advances</i> , 2018, 8, .	1.3	29
6	Analytical and experimental studies on midstory isolated buildings with modal coupling effect. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 201-219.	4.4	27
7	Three-dimensional periodic materials as seismic base isolator for nuclear infrastructure. <i>AIP Advances</i> , 2019, 9, .	1.3	24
8	ISEE: Internet-based Simulation for Earthquake Engineering—Part II: The application protocol approach. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 2307-2323.	4.4	23
9	ISEE: Internet-based Simulation for Earthquake Engineering—Part I: Database approach. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 2291-2306.	4.4	22
10	A seismic retrofit method by connecting viscous dampers for microelectronics factories. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 1461-1480.	4.4	17
11	Optimum dynamic characteristic control approach for building mass damper design. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 872-888.	4.4	13
12	Experimental and analytical study on design performance of full-scale viscoelastic dampers. <i>Earthquake Engineering and Engineering Vibration</i> , 2018, 17, 693-706.	2.3	13
13	Building mass damper design based on optimum dynamic response control approach. <i>Engineering Structures</i> , 2019, 187, 85-100.	5.3	13
14	Experimental beyond design and residual performances of full-scale viscoelastic dampers and their empirical modeling. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 1093-1111.	4.4	11
15	Effectiveness of damaged viscoelastic dampers in seismic protection of structures under main shocks and aftershocks. <i>Engineering Structures</i> , 2021, 242, 112424.	5.3	11
16	Experimental Study on Seismic Performance of Mechanical/Electrical Equipment with Vibration Isolation Systems. <i>Journal of Earthquake Engineering</i> , 2017, 21, 439-460.	2.5	10
17	A generalized analytical model for sloped rolling-type seismic isolators. <i>Engineering Structures</i> , 2017, 138, 434-446.	5.3	8
18	Mechanical behavior of lead rubber bearings under and after nonproportional plane loading. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 1508-1531.	4.4	7

#	ARTICLE	IF	CITATIONS
19	Effects of design and seismic parameters on horizontal displacement responses of sloped rolling-type seismic isolators. <i>Structural Control and Health Monitoring</i> , 2019, 26, e2342.	4.0	6
20	Control Performances of Friction Pendulum and Sloped Rolling-Type Bearings Designed with Single Parameters. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7200.	2.5	5
21	Seismic Retrofit of Existing Critical Structures Using Externally Connected Viscous Dampers. <i>International Journal of Structural Stability and Dynamics</i> , 2022, 22, .	2.4	5
22	Improved control performance of sloped rolling-type isolation devices using embedded electromagnets. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1853.	4.0	4
23	Prediction of Beyond Design and Residual Performances of Viscoelastic Dampers by a Simplified Fractional Derivative Model. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150081.	2.4	4
24	Analytical and experimental study on sloped sliding-type bearings. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2828.	4.0	4
25	Hysteretic behavior of viscoelastic dampers subjected to damage during seismic loading. <i>Journal of Building Engineering</i> , 2022, 53, 104538.	3.4	4
26	NUMERICAL ANALYSIS FRAMEWORK FOR DISTRIBUTED PSEUDO-DYNAMIC TESTS. , 2002, , .		3
27	A NETWORKED COLLABORATIVE PSEUDO DYNAMIC TESTING ARCHITECTURE. , 2002, , .		2
28	Seismic response prediction of base-isolated structures with high damping rubber bearings. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2016, 39, 12-25.	1.1	2
29	Numerical study on smart sloped rolling-type seismic isolators integrated with early prediction of peak velocity. <i>Engineering Structures</i> , 2021, 246, 113032.	5.3	2
30	Periodic Material Based Seismic Isolation for Small Modular Reactors. , 2015, , .		1
31	Periodic Material-Based Three-Dimensional (3D) Seismic Base Isolators for Small Modular Reactors. , 2019, , 1-16.		1
32	Consideration of Three Seismic Isolation Performances as Design Objectives for Equivalent Linear Analysis of Bilinear Hysteretic Isolation Systems. <i>International Journal of Structural Stability and Dynamics</i> , 0, , 2250001.	2.4	1
33	NETWORKED COLLABORATIVE PSEUDO DYNAMIC TESTING EXAMPLES. , 2002, , .		0
34	Analytical Study of 1D Periodic Foundations for Structural Vibration Isolation. , 2015, , .		0
35	Coupled Bilateral Hysteretic Behavior of High-damping Rubber Bearings under Non-proportional Plane Loading. <i>Journal of Earthquake Engineering</i> , 2020, , 1-28.	2.5	0
36	The Transition Matrix Formalism for the Scattering of an Alluvium on an Elastic Half-Space. , 2007, , .		0