Shiang-Jung Wang

List of Publications by Year
in descending order

36 papers	509 citations	858243 12 h-index	759306 22 g-index
36 all docs	36 docs citations	36 times ranked	363 citing authors

#	Article	IF	Citations
1	Hysteretic behavior of viscoelastic dampers subjected to damage during seismic loading. Journal of Building Engineering, 2022, 53, 104538.	1.6	4
2	Seismic Retrofit of Existing Critical Structures Using Externally Connected Viscous Dampers. International Journal of Structural Stability and Dynamics, 2022, 22, .	1.5	5
3	Prediction of Beyond Design and Residual Performances of Viscoelastic Dampers by a Simplified Fractional Derivative Model. International Journal of Structural Stability and Dynamics, 2021, 21, 2150081.	1.5	4
4	Analytical and experimental study on sloped slidingâ€type bearings. Structural Control and Health Monitoring, 2021, 28, e2828.	1.9	4
5	Effectiveness of damaged viscoelastic dampers in seismic protection of structures under main shocks and aftershocks. Engineering Structures, 2021, 242, 112424.	2.6	11
6	Numerical study on smart sloped rolling-type seismic isolators integrated with early prediction of peak velocity. Engineering Structures, 2021, 246, 113032.	2.6	2
7	Coupled Bilateral Hysteretic Behavior of High-damping Rubber Bearings under Non-proportional Plane Loading. Journal of Earthquake Engineering, 2020, , 1-28.	1.4	0
8	Control Performances of Friction Pendulum and Sloped Rolling-Type Bearings Designed with Single Parameters. Applied Sciences (Switzerland), 2020, 10, 7200.	1.3	5
9	Mechanical behavior of lead rubber bearings under and after nonproportional plane loading. Earthquake Engineering and Structural Dynamics, 2019, 48, 1508-1531.	2.5	7
10	Periodic Material-Based Three-Dimensional (3D) Seismic Base Isolators for Small Modular Reactors. , 2019, , 1-16.		1
11	Experimental beyond design and residual performances of fullâ€scale viscoelastic dampers and their empirical modeling. Earthquake Engineering and Structural Dynamics, 2019, 48, 1093-1111.	2.5	11
12	Three-dimensional periodic materials as seismic base isolator for nuclear infrastructure. AIP Advances, 2019, 9, .	0.6	24
13	Effects of design and seismic parameters on horizontal displacement responses of sloped rollingâ€type seismic isolators. Structural Control and Health Monitoring, 2019, 26, e2342.	1.9	6
14	Building mass damper design based on optimum dynamic response control approach. Engineering Structures, 2019, 187, 85-100.	2.6	13
15	Seismic isolation of small modular reactors using metamaterials. AIP Advances, 2018, 8, .	0.6	29
16	Optimum dynamic characteristic control approach for building mass damper design. Earthquake Engineering and Structural Dynamics, 2018, 47, 872-888.	2.5	13
17	Experimental and analytical study on design performance of full-scale viscoelastic dampers. Earthquake Engineering and Engineering Vibration, 2018, 17, 693-706.	1.1	13
18	Improved control performance of sloped rolling-type isolation devices using embedded electromagnets. Structural Control and Health Monitoring, 2017, 24, e1853.	1.9	4

#	Article	IF	Citations
19	Experimental Study on Seismic Performance of Mechanical/Electrical Equipment with Vibration Isolation Systems. Journal of Earthquake Engineering, 2017, 21, 439-460.	1.4	10
20	A generalized analytical model for sloped rolling-type seismic isolators. Engineering Structures, 2017, 138, 434-446.	2.6	8
21	Seismic response prediction of base-isolated structures with high damping rubber bearings. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2016, 39, 12-25.	0.6	2
22	Analytical Study of 1D Periodic Foundations for Structural Vibration Isolation. , 2015, , .		0
23	Periodic Material Based Seismic Isolation for Small Modular Reactors. , 2015, , .		1
24	Sloped multiâ€roller isolation devices for seismic protection of equipment and facilities. Earthquake Engineering and Structural Dynamics, 2014, 43, 1443-1461.	2.5	40
25	Analytical and experimental studies on midstory isolated buildings with modal coupling effect. Earthquake Engineering and Structural Dynamics, 2013, 42, 201-219.	2.5	27
26	Periodic materials-based vibration attenuation in layered foundations: experimental validation. Smart Materials and Structures, 2012, 21, 112003.	1.8	109
27	Dynamic behavior of a building structure tested with base and mid-story isolation systems. Engineering Structures, 2012, 42, 420-433.	2.6	42
28	Simplified analysis of midâ€story seismically isolated buildings. Earthquake Engineering and Structural Dynamics, 2011, 40, 119-133.	2.5	46
29	A seismic retrofit method by connecting viscous dampers for microelectronics factories. Earthquake Engineering and Structural Dynamics, 2007, 36, 1461-1480.	2.5	17
30	ISEE: Internet-based Simulation for Earthquake Engineeringâ€"Part II: The application protocol approach. Earthquake Engineering and Structural Dynamics, 2007, 36, 2307-2323.	2.5	23
31	ISEE: Internetâ€based Simulation for Earthquake Engineeringâ€"Part I: Database approach. Earthquake Engineering and Structural Dynamics, 2007, 36, 2291-2306.	2.5	22
32	The Transition Matrix Formalism for the Scattering of an Alluvium on an Elastic Half-Space. , 2007, , .		0
33	NUMERICAL ANALYSIS FRAMEWORK FOR DISTRIBUTED PSEUDO-DYNAMIC TESTS. , 2002, , .		3
34	NETWORKED COLLABORATIVE PSEUDO DYNAMIC TESTING EXAMPLES. , 2002, , .		0
35	A NETWORKED COLLABORATIVE PSEUDO DYNAMIC TESTING ARCHITECTURE. , 2002, , .		2
36	Consideration of Three Seismic Isolation Performances as Design Objectives for Equivalent Linear Analysis of Bilinear Hysteretic Isolation Systems. International Journal of Structural Stability and Dynamics, 0, , 2250001.	1.5	1