

Tara C Hutchinson

List of Publications by Year in descending order

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75
papers

1,813
citations

304368

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76
all docs

76
docs citations

76
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring the earthquake response of full-scale structures using UAV vision-based techniques. Structural Control and Health Monitoring, 2022, 29, e2862.	1.9	8
2	Centrifuge Shake Table Tests on Rocking Footings on Sand. , 2022, , .		1
3	NHERI@UC San Diego 6-DOF Large High-Performance Outdoor Shake Table Facility. Frontiers in Built Environment, 2021, 6, .	1.2	8
4	Seismic response analysis and modal identification of a full-scale five-story base-isolated building tested on the NEES@UCSD shake table. Engineering Structures, 2021, 238, 112087.	2.6	11
5	Earthquake and Postearthquake Fire Testing of a Midrise Cold-Formed Steel-Framed Building. II: Shear Wall Behavior and Design Implications. Journal of Structural Engineering, 2021, 147, .	1.7	6
6	Earthquake and Postearthquake Fire Testing of a Midrise Cold-Formed Steel-Framed Building. I: Building Response and Physical Damage. Journal of Structural Engineering, 2021, 147, .	1.7	8
7	Evolution of modal characteristics of a mid-rise cold-formed steel building during construction and earthquake testing. Earthquake Engineering and Structural Dynamics, 2020, 49, 1539-1558.	2.5	12
8	Shake table testing of a miniature steel building with ductile anchor, uplifting column base connections for improved seismic performance. Earthquake Engineering and Structural Dynamics, 2019, 48, 173-187.	2.5	6
9	Computational assessment of the seismic behavior of steel stairs. Engineering Structures, 2018, 166, 376-386.	2.6	4
10	Pretest Nonlinear Finite-Element Modeling and Response Simulation of a Full-Scale 5-Story Reinforced Concrete Building Tested on the NEES-UCSD Shake Table. Journal of Structural Engineering, 2018, 144, .	1.7	7
11	Parametric Finite-Element Modeling for Exposed Steel Moment Frame Column Baseplate Connections Subjected to Lateral Loads. Journal of Structural Engineering, 2018, 144, .	1.7	6
12	An approach for shake table performance evaluation during repair and retrofit actions. Earthquake Engineering and Structural Dynamics, 2018, 47, 131-146.	2.5	11
13	Rocking bodies with arbitrary interface defects: Analytical development and experimental verification. Earthquake Engineering and Structural Dynamics, 2018, 47, 69-85.	2.5	7
14	Shake table tests of unattached, asymmetric, dual-body systems. Earthquake Engineering and Structural Dynamics, 2017, 46, 1391-1410.	2.5	19
15	Behavior of steel-sheathed shear walls subjected to seismic and fire loads. Fire Safety Journal, 2017, 91, 524-531.	1.4	42
16	Predominant period and equivalent viscous damping ratio identification for a full-scale building shake table test. Earthquake Engineering and Structural Dynamics, 2017, 46, 2459-2477.	2.5	13
17	Investigation of Steel Column-Baseplate Connection Details Incorporating Ductile Anchors. Journal of Structural Engineering, 2017, 143, .	1.7	14
18	Development and validation of European guidelines for seismic qualification of post-installed anchors. Engineering Structures, 2017, 148, 497-508.	2.6	14

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19	Shake table testing of an elevator system in a full-scale five-story building. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 391-407.	2.5	13
20	System identification of a full-scale five-story reinforced concrete building tested on the NEES@UCSD shake table. <i>Structural Control and Health Monitoring</i> , 2016, 23, 535-559.	1.9	36
21	Experimental modal analysis and seismic mitigation of statue-pedestal systems. <i>Journal of Cultural Heritage</i> , 2016, 20, 641-648.	1.5	19
22	Influence of the construction process and nonstructural components on the modal properties of a five-story building. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1063-1084.	2.5	25
23	Characterization of Full-Scale, Human-Form, Culturally Important Statues: Case Study. <i>Journal of Computing in Civil Engineering</i> , 2016, 30, .	2.5	9
24	Full-Scale Structural and Nonstructural Building System Performance during Earthquakes: Part I – Specimen Description, Test Protocol, and Structural Response. <i>Earthquake Spectra</i> , 2016, 32, 737-770.	1.6	72
25	Characterizing Seismic Resiliency Using an Energy Dissipation-Recentering Correlation Diagram. <i>Earthquake Spectra</i> , 2016, 32, 1545-1564.	1.6	3
26	Full-Scale Structural and Nonstructural Building System Performance during Earthquakes: Part II – NCS Damage States. <i>Earthquake Spectra</i> , 2016, 32, 771-794.	1.6	51
27	Effects of Detailing on the Cyclic Behavior of Steel Baseplate Connections Designed to Promote Anchor Yielding. <i>Journal of Structural Engineering</i> , 2016, 142, .	1.7	36
28	Effect of earthquake-induced axial load fluctuations on asymmetric frame-wall-rocking foundation systems. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1997-2013.	2.5	2
29	Shake table tests of stiff, unattached, asymmetric structures. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2425-2443.	2.5	49
30	Dynamic characteristics and seismic behavior of prefabricated steel stairs in a full-scale five-story building shake table test program. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2507-2527.	2.5	10
31	UAV-based post disaster assessment of cultural heritage sites following the 2014 South Napa Earthquake. , 2015, , .		20
32	Seismic Behavior of Frame-Wall-Rocking Foundation Systems. II: Dynamic Test Phase. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	10
33	Seismic Behavior of Frame-Wall-Rocking Foundation Systems. I: Test Program and Slow Cyclic Results. <i>Journal of Structural Engineering</i> , 2015, 141, 04015059.	1.7	14
34	Experimental Evaluation of the Seismic Response of a Rooftop-Mounted Cooling Tower. <i>Earthquake Spectra</i> , 2015, 31, 1567-1589.	1.6	15
35	Nonlinear Soil-Structure and Structure-Soil Interaction: Engineering Demands. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	28
36	Design-Oriented Model for Capturing the In-Plane Seismic Response of Partition Walls. <i>Journal of Structural Engineering</i> , 2014, 140, .	1.7	12

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37	Nonlinear Soil-Foundation-Structure and Structure-Soil-Structure Interaction: Centrifuge Test Observations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2014, 140, .	1.5	29
38	Experimental investigation of plastic demands in piles embedded in multi-layered liquefiable soils. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 49, 146-156.	1.9	25
39	Seismic soil-foundation-structure interaction observed in geotechnical centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 48, 162-174.	1.9	80
40	Tracking the dynamic characteristics of a nonlinear soil-pile system in multi-layered liquefiable soils. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 49, 89-95.	1.9	5
41	Nonlinear dynamic foundation and frame structure response observed in geotechnical centrifuge experiments. <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 50, 117-133.	1.9	48
42	Demonstration of Compatible Yielding between Soil-Foundation and Superstructure Components. <i>Journal of Structural Engineering</i> , 2013, 139, 1408-1420.	1.7	35
43	Parallel terrain rendering using a cluster of computers. <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> , 2013, 36, 212-223.	0.6	0
44	Effects of Ground Failure on Buildings, Ports, and Industrial Facilities. <i>Earthquake Spectra</i> , 2012, 28, 97-118.	1.6	20
45	Experimentally Measured Permeability of Uncracked and Cracked Concrete Components. <i>Journal of Materials in Civil Engineering</i> , 2012, 24, 548-559.	1.3	5
46	Effect of Nonlinearity of Frame Buildings on Peak Horizontal Floor Acceleration. <i>Journal of Earthquake Engineering</i> , 2011, 15, 124-142.	1.4	61
47	Structural damage detection using bi-temporal optical satellite images. <i>International Journal of Remote Sensing</i> , 2011, 32, 4973-4997.	1.3	7
48	Development of a Drift Protocol for Seismic Performance Evaluation considering a Damage Index Concept. <i>Earthquake Spectra</i> , 2011, 27, 1049-1076.	1.6	15
49	Experimental Evaluation of the In-Plane Seismic Behavior of Storefront Window Systems. <i>Earthquake Spectra</i> , 2011, 27, 997-1021.	1.6	7
50	Performance of seismically loaded shearwalls on nonlinear shallow foundations. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2011, 35, 846-858.	1.7	18
51	Probabilistic Urban Structural Damage Classification Using Bitemporal Satellite Images. <i>Earthquake Spectra</i> , 2010, 26, 87-109.	1.6	14
52	Image-Based Framework for Concrete Surface Crack Monitoring and Quantification. <i>Advances in Civil Engineering</i> , 2010, 2010, 1-18.	0.4	33
53	Sensitivity of Shallow Foundation Response to Model Input Parameters. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 538-541.	1.5	20
54	Effects of Foundation Configuration Variation on Seismic Response of Moment-Frame Buildings. , 2010, , .		1

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55	Geotechnical reconnaissance of the 2010 Darfield (Canterbury) earthquake. Bulletin of the New Zealand Society for Earthquake Engineering, 2010, 43, 243-320.	0.2	108
56	Beam-on-Nonlinear-Winkler-Foundation Modeling of Shallow, Rocking-Dominated Footings. Earthquake Spectra, 2009, 25, 277-300.	1.6	72
57	Performance evaluation of a nonlinear Winkler-based shallow foundation model using centrifuge test results. Earthquake Engineering and Structural Dynamics, 2009, 38, 679-698.	2.5	113
58	Development and Evaluation of a Seismic Monitoring System for Building Interiors—Part I: Experiment Design and Results. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 332-344.	2.4	7
59	Development and Evaluation of a Seismic Monitoring System for Building Interiors—Part II: Image Data Analysis and Results. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 345-354.	2.4	7
60	Nonlinear Material Models for Winkler-Based Shallow Foundation Response Evaluation. , 2008, , .		15
61	Probabilistic Representation of Structural Integrity of Urban Buildings in Remotely Sensed Images. , 2008, , .		3
62	Urban Damage Estimation Using Statistical Processing of Satellite Images. Journal of Computing in Civil Engineering, 2007, 21, 187-199.	2.5	17
63	A Probabilistic Classification Framework for Urban Structural Damage Estimation Using Satellite Images. , 2007, , .		2
64	A virtualized laboratory for earthquake engineering education. Computer Applications in Engineering Education, 2007, 15, 15-29.	2.2	19
65	Optimal Hardware and Software Design of an Image-Based System for Capturing Dynamic Movements. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 164-175.	2.4	14
66	Simplified Expression for Seismic Fragility Estimation of Sliding-Dominated Equipment and Contents. Earthquake Spectra, 2006, 22, 709-732.	1.6	21
67	Fragility of Bench-Mounted Equipment Considering Uncertain Parameters. Journal of Structural Engineering, 2006, 132, 884-898.	1.7	28
68	Investigation into the Effects of Foundation Uplift on Simplified Seismic Design Procedures. Earthquake Spectra, 2006, 22, 663-692.	1.6	43
69	Centrifuge modeling of load-deformation behavior of rocking shallow foundations. Soil Dynamics and Earthquake Engineering, 2005, 25, 773-783.	1.9	179
70	A hybrid reality environment and its application to the study of earthquake engineering. Virtual Reality, 2005, 9, 17-33.	4.1	6
71	Optimized Estimated Ground Truth for Object-Based Urban Damage Estimation Using Satellite Images from the 2003 Bam, Iran, Earthquake. Earthquake Spectra, 2005, 21, 239-254.	1.6	11
72	Monitoring Global Earthquake-Induced Demands Using Vision-Based Sensors. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 31-36.	2.4	15

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73	Quasi-Static Reversed Cyclic Response of Level and Stepped Cripple Walls. Journal of Structural Engineering, 2003, 129, 567-575.	1.7	2
74	Seismic Damage Characteristics of Cripple Walls. Earthquake Spectra, 2003, 19, 753-778.	1.6	1
75	Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. Journal of Structural Engineering, 2002, 128, 595-602.	1.7	68