

Keh-Chyuan Tsai

List of Publications by Year in descending order

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89
papers

2,370
citations

201385

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223531

46
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89
all docs

89
docs citations

89
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Precast concrete wall with end columns (PreWEC) for earthquake resistant design. Earthquake Engineering and Structural Dynamics, 2015, 44, 2075-2092.	2.5	123
2	Seismic self-centering steel beam-to-column moment connections using bolted friction devices. Earthquake Engineering and Structural Dynamics, 2008, 37, 627-645.	2.5	116
3	Pseudo-dynamic tests of a full-scale CFT/BRB frame"Part I: Specimen design, experiment and analysis. Earthquake Engineering and Structural Dynamics, 2008, 37, 1081-1098.	2.5	115
4	Pseudo-dynamic test of a full-scale CFT/BRB frame"Part II: Seismic performance of buckling-restrained braces and connections. Earthquake Engineering and Structural Dynamics, 2008, 37, 1099-1115.	2.5	110
5	High-mode buckling responses of buckling-restrained brace core plates. Earthquake Engineering and Structural Dynamics, 2014, 43, 375-393.	2.5	104
6	Testing of Full-Scale Two-Story Steel Plate Shear Wall with Reduced Beam Section Connections and Composite Floors. Journal of Structural Engineering, 2008, 134, 364-373.	1.7	102
7	Overview of Taiwan Earthquake Loss Estimation System. Natural Hazards, 2006, 37, 23-37.	1.6	89
8	Evaluating performance of post-tensioned steel connections with strands and reduced flange plates. Earthquake Engineering and Structural Dynamics, 2006, 35, 1167-1185.	2.5	89
9	Retrofit of reinforced concrete frames with buckling-restrained braces. Earthquake Engineering and Structural Dynamics, 2015, 44, 59-78.	2.5	71
10	Seismic design and hybrid tests of a full-scale three-story buckling-restrained braced frame using welded end connections and thin profile. Earthquake Engineering and Structural Dynamics, 2012, 41, 1001-1020.	2.5	64
11	Welded end-slot connection and debonding layers for buckling-restrained braces. Earthquake Engineering and Structural Dynamics, 2014, 43, 1785-1807.	2.5	64
12	Seismic analysis of two-way asymmetric building systems under bi-directional seismic ground motions. Earthquake Engineering and Structural Dynamics, 2008, 37, 305-328.	2.5	63
13	Self-centering steel connections with steel bars and a discontinuous composite slab. Earthquake Engineering and Structural Dynamics, 2009, 38, 403-422.	2.5	55
14	Object-oriented development and application of a nonlinear structural analysis framework. Advances in Engineering Software, 2009, 40, 66-82.	1.8	55
15	Influence of gusset plate connections and braces on the seismic performance of X-braced frames. Earthquake Engineering and Structural Dynamics, 2011, 40, 355-374.	2.5	52
16	Investigation of the seismic response of three-story special concentrically braced frames. Journal of Constructional Steel Research, 2012, 77, 131-144.	1.7	51
17	Seismic design and testing of buckling-restrained braces with a thin profile. Earthquake Engineering and Structural Dynamics, 2016, 45, 339-358.	2.5	45
18	Improved time integration for pseudodynamic tests. Earthquake Engineering and Structural Dynamics, 1998, 27, 711-730.	2.5	42

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19	Seismic design and test of gusset connections for buckling-restrained braced frames. Earthquake Engineering and Structural Dynamics, 2014, 43, 565-587.	2.5	40
20	Experimental Investigation of Chevron Concentrically Braced Frames with Yielding Beams. Journal of Structural Engineering, 2016, 142, 04016123.	1.7	39
21	Dual compensation strategy for real-time hybrid testing. Earthquake Engineering and Structural Dynamics, 2013, 42, 1-23.	2.5	34
22	Simplified seismic analysis of asymmetric building systems. Earthquake Engineering and Structural Dynamics, 2007, 36, 459-479.	2.5	33
23	Cyclic test of a coupled steel plate shear wall substructure. Earthquake Engineering and Structural Dynamics, 2012, 41, 1277-1299.	2.5	32
24	An online optimization method for bridge dynamic hybrid simulations. Simulation Modelling Practice and Theory, 2012, 28, 42-54.	2.2	31
25	Adaptive model-based tracking control for real-time hybrid simulation. Bulletin of Earthquake Engineering, 2015, 13, 1633-1653.	2.3	31
26	Seismic design and experiment of single and coupled corner gusset connections in a full-scale two-story buckling-restrained braced frame. Earthquake Engineering and Structural Dynamics, 2015, 44, 2177-2198.	2.5	30
27	Bi-directional coupled tuned mass dampers for the seismic response control of two-way asymmetric-plan buildings. Earthquake Engineering and Structural Dynamics, 2011, 40, 675-690.	2.5	29
28	Real-time hybrid testing of a smart base isolation system. Earthquake Engineering and Structural Dynamics, 2014, 43, 139-158.	2.5	27
29	Full-Scale Pseudodynamic Testing of Self-Centering Steel Plate Shear Walls. Journal of Structural Engineering, 2016, 142, .	1.7	27
30	Bidirectional substructure pseudo-dynamic tests and analysis of a full-scale two-story buckling-restrained braced frame. Earthquake Engineering and Structural Dynamics, 2016, 45, 1085-1107.	2.5	26
31	Hybrid experimental performance of a full-scale two-story buckling-restrained braced RC frame. Earthquake Engineering and Structural Dynamics, 2017, 46, 1223-1244.	2.5	25
32	Seismic Design and Hybrid Tests of a Full-Scale Three-Story Concentrically Braced Frame using In-Plane Buckling Braces. Earthquake Spectra, 2013, 29, 1043-1067.	1.6	24
33	ISEE: Internet-based Simulation for Earthquake Engineering”Part II: The application protocol approach. Earthquake Engineering and Structural Dynamics, 2007, 36, 2307-2323.	2.5	23
34	ISEE: Internet-based Simulation for Earthquake Engineering”Part I: Database approach. Earthquake Engineering and Structural Dynamics, 2007, 36, 2291-2306.	2.5	22
35	Cyclic tests of four two-story narrow steel plate shear walls. Part 2: experimental results and design implications. Earthquake Engineering and Structural Dynamics, 2010, 39, 801-826.	2.5	21
36	Sub-structural pseudo-dynamic performance of two full-scale two-story steel plate shear walls. Journal of Constructional Steel Research, 2010, 66, 1467-1482.	1.7	20

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37	Extremely large displacement dynamic analysis of elastic-plastic plane frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1515-1533.	2.5	20
38	Seismic History Analysis of Asymmetric Buildings with Soil-Structure Interaction. <i>Journal of Structural Engineering</i> , 2009, 135, 101-112.	1.7	19
39	Cyclic tests of four two-story narrow steel plate shear walls—Part 1: Analytical studies and specimen design. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 775-799.	2.5	18
40	Seismic retrofit of reinforced concrete frames using buckling-restrained braces with bearing block load transfer mechanism. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 2303-2326.	2.5	18
41	Seismic performance analysis of BRBs and gussets in a full-scale 2-story BRB-RCF specimen. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2366-2389.	2.5	18
42	Analytical studies of a full-scale steel building shaken to collapse. <i>Engineering Structures</i> , 2010, 32, 3418-3430.	2.6	17
43	Earthquake response analyses of a full-scale five-story steel frame equipped with two types of dampers. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 1301-1320.	2.5	17
44	Critical limit states in seismic buckling-restrained brace and connection designs. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 1559-1579.	2.5	17
45	Seismic steel jacketing of rectangular RC bridge columns for the mitigation of lap-splice failures. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 1687-1710.	2.5	16
46	Simplified seismic analysis of one-way asymmetric elastic systems with supplemental damping. <i>Earthquake Engineering and Structural Dynamics</i> , 2007, 36, 783-800.	2.5	15
47	Research Needs and Future Directions for Steel Plate Shear Walls. , 2008, , .		14
48	Seismic rehabilitation performance of steel side plate moment connections. <i>Earthquake Engineering and Structural Dynamics</i> , 2010, 39, 23-44.	2.5	14
49	A control framework for uniaxial shaking tables considering tracking performance and system robustness. <i>Structural Control and Health Monitoring</i> , 2017, 24, e2015.	1.9	14
50	Study on the Fragility of Building Structures in Taiwan. <i>Natural Hazards</i> , 2006, 37, 55-69.	1.6	13
51	A Ground Motion Scaling Method considering Higher-Mode Effects and Structural Characteristics. <i>Earthquake Spectra</i> , 2010, 26, 841-867.	1.6	13
52	Seismic design and testing of the bottom vertical boundary elements in steel plate shear walls. Part 2: experimental studies. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 2155-2177.	2.5	13
53	Cyclic tests of steel plate shear walls using box-shape vertical boundary elements with or without infill concrete. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 2537-2564.	2.5	12
54	Educational Reconnaissance of the Area Affected by the 1999 Chi-Chi Earthquake—Three Years Later. <i>Earthquake Spectra</i> , 2005, 21, 31-52.	1.6	11

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55	Coupled Tuned Mass Dampers for the Seismic Control of Asymmetric-Plan Buildings. <i>Earthquake Spectra</i> , 2010, 26, 749-778.	1.6	11
56	Understanding the trends in torsional effects in asymmetric-plan buildings. <i>Bulletin of Earthquake Engineering</i> , 2012, 10, 955-965.	2.3	11
57	Experimental and analytical investigations of steel panel dampers for seismic applications in steel moment frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 1416-1439.	2.5	10
58	Inelastic behavior and seismic design of multistory chevron-braced frames with yielding beams. <i>Journal of Constructional Steel Research</i> , 2020, 167, 105817.	1.7	9
59	Modal Parameters for the Analysis of Inelastic Asymmetric-Plan Structures. <i>Earthquake Spectra</i> , 2009, 25, 821-849.	1.6	8
60	Seismic performance evaluation of a 34-story steel building retrofitted with response modification elements. <i>Earthquake Engineering and Structural Dynamics</i> , 2009, 38, 759-781.	2.5	8
61	Inelastic Responses of Two-Way Asymmetric-Plan Structures under Bidirectional Ground Excitations—Part II: Response Spectra. <i>Earthquake Spectra</i> , 2012, 28, 141-157.	1.6	7
62	Seismic design and testing of the bottom vertical boundary elements in steel plate shear walls. Part 1: design methodology. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 2237-2259.	2.5	7
63	Two-degree-of-freedom modal response history analysis of buildings with specific vertical irregularities. <i>Engineering Structures</i> , 2019, 184, 505-523.	2.6	7
64	Seismic fracture evaluation of diaphragm joints in welded beam-to-box column moment connections. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 1344-1362.	2.5	7
65	Plasticity-fibre model for steel triangular plate energy dissipating devices. <i>Earthquake Engineering and Structural Dynamics</i> , 2002, 31, 1643-1655.	2.5	6
66	Full-scale fatigue tests of a cable-to-orthotropic bridge deck connection. <i>Journal of Constructional Steel Research</i> , 2012, 70, 264-272.	1.7	6
67	Parameter identification for on-line model updating in hybrid simulations using a gradient-based method. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 269-293.	2.5	6
68	Stiffness configuration of strongbacks to mitigate inter-story drift concentration in buildings. <i>Engineering Structures</i> , 2019, 199, 109615.	2.6	6
69	Hybrid testing with model updating on steel panel damper substructures using a multi-axial testing system. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 347-365.	2.5	6
70	Optimization Approach to Uniformly Distributed Peak Interstory Drifts along Building Heights. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	6
71	Seismic Analysis of Non Proportionally Damped Two-Way Asymmetric Elastic Buildings Under Bi-Directional Seismic Ground Motions. <i>Journal of Earthquake Engineering</i> , 2008, 12, 1139-1156.	1.4	5
72	Cyclic responses of three 2-story seismic concentrically braced frames. <i>Frontiers of Architecture and Civil Engineering in China</i> , 2010, 4, 287-301.	0.4	5

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73	Estimation of the seismic energy demands of two-way asymmetric-plan building systems. <i>Bulletin of Earthquake Engineering</i> , 2011, 9, 603-621.	2.3	5
74	Real-valued modal response history analysis for asymmetric-plan buildings with nonlinear viscous dampers. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 77, 97-110.	1.9	5
75	Inelastic Responses of Two-Way Asymmetric-Plan Structures under Bidirectional Ground Excitationsâ€”Part I: Modal Parameters. <i>Earthquake Spectra</i> , 2012, 28, 105-139.	1.6	4
76	Application of Supplemental Damping Characteristics to Response Spectrum Analyses of Nonproportionally Damped Multistory Asymmetric-Plan Buildings. <i>Earthquake Spectra</i> , 2013, 29, 207-232.	1.6	4
77	An Energy-Based Approach to the Generalized Optimal Locations of Viscous Dampers in Two-Way Asymmetrical Buildings. <i>Earthquake Spectra</i> , 2014, 30, 867-889.	1.6	4
78	Suitability of using the torsional amplification factor to amplify accidental torsion. <i>Engineering Structures</i> , 2016, 127, 1-17.	2.6	4
79	Experimental investigations on seismic behavior and design of bottom vertical boundary elements in multi-story steel plate shear walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 2777-2801.	2.5	3
80	Evaluating out-of-plane stability for welded BRBs considering flexural restrainer and gusset rotations. <i>Journal of Constructional Steel Research</i> , 2019, 159, 161-175.	1.7	2
81	Evaluating the reliability of using the deflection amplification factor to estimate design displacements with accidental torsion effects. <i>Earthquake and Structures</i> , 2015, 8, 443-462.	1.0	2
82	Construction of Response Spectra for Inelastic Asymmetric-Plan Structures. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010, , 203-211.	0.1	1
83	Effective oscillators for the seismic analysis of inelastic one-way asymmetric-plan buildings. <i>Engineering Structures</i> , 2013, 52, 38-52.	2.6	1
84	Experimental Investigation on the Seismic Retrofit of Existing Reinforced Concrete Buildings Using Steel Plate Shear Walls. , 2015, , .		1
85	High Performance Steel Material and Structures for Earthquake Resistant Buildings. , 2008, , 155-206.		0
86	11.37: Hybrid tests of a full-scale two-story buckling-restrained braced RC frame. <i>Ce/Papers</i> , 2017, 1, 3139-3147.	0.1	0
87	Pseudo-dynamic Performance Evaluation of Full Scale Seismic Steel Braced Frame Braced frame Braced frame Braced frame s Using Buckling-Restrained and In-Plane Buckling Braces. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 237-249.	0.1	0
88	Theory and Applications of the 3-DOF Modal System for PBSE of Asymmetrical Buildings Asymmetrical buildings Asymmetrical buildings Asymmetrical buildings. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 251-261.	0.1	0
89	Optimization of Steel Panel Damper Design for Seismic Moment Frames. <i>Lecture Notes in Civil Engineering</i> , 2020, , 319-327.	0.3	0