

Keh-Chyuan Tsai

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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201674
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docs citations

89
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Inelastic behavior and seismic design of multistory chevron-braced frames with yielding beams. Journal of Constructional Steel Research, 2020, 167, 105817.	3.9	9
2	Seismic fracture evaluation of diaphragm joints in welded beam-to-box column moment connections. Earthquake Engineering and Structural Dynamics, 2020, 49, 1344-1362.	4.4	7
3	Optimization of Steel Panel Damper Design for Seismic Moment Frames. Lecture Notes in Civil Engineering, 2020, , 319-327.	0.4	0
4	Stiffness configuration of strongbacks to mitigate inter-story drift concentration in buildings. Engineering Structures, 2019, 199, 109615.	5.3	6
5	Two-degree-of-freedom modal response history analysis of buildings with specific vertical irregularities. Engineering Structures, 2019, 184, 505-523.	5.3	7
6	Evaluating out-of-plane stability for welded BRBs considering flexural restrainer and gusset rotations. Journal of Constructional Steel Research, 2019, 159, 161-175.	3.9	2
7	Hybrid testing with model updating on steel panel damper substructures using a multi-axial testing system. Earthquake Engineering and Structural Dynamics, 2019, 48, 347-365.	4.4	6
8	Optimization Approach to Uniformly Distributed Peak Interstory Drifts along Building Heights. Journal of Structural Engineering, 2019, 145, .	3.4	6
9	Experimental and analytical investigations of steel panel dampers for seismic applications in steel moment frames. Earthquake Engineering and Structural Dynamics, 2018, 47, 1416-1439.	4.4	10
10	Parameter identification for on-line model updating in hybrid simulations using a gradient-based method. Earthquake Engineering and Structural Dynamics, 2018, 47, 269-293.	4.4	6
11	Experimental investigations on seismic behavior and design of bottom vertical boundary elements in multi-story steel plate shear walls. Earthquake Engineering and Structural Dynamics, 2018, 47, 2777-2801.	4.4	3
12	Seismic performance analysis of BRBs and gussets in a full-scale 2-story BRB-RCF specimen. Earthquake Engineering and Structural Dynamics, 2018, 47, 2366-2389.	4.4	18
13	Hybrid experimental performance of a full-scale two-story buckling-restrained braced RC frame. Earthquake Engineering and Structural Dynamics, 2017, 46, 1223-1244.	4.4	25
14	11.37: Hybrid tests of a full-scale two-story buckling-restrained braced RC frame. Ce/Papers, 2017, 1, 3139-3147.	0.3	0
15	A control framework for uniaxial shaking tables considering tracking performance and system robustness. Structural Control and Health Monitoring, 2017, 24, e2015.	4.0	14
16	Cyclic tests of steel plate shear walls using box-shape vertical boundary elements with or without infill concrete. Earthquake Engineering and Structural Dynamics, 2017, 46, 2537-2564.	4.4	12
17	Experimental Investigation of Chevron Concentrically Braced Frames with Yielding Beams. Journal of Structural Engineering, 2016, 142, 04016123.	3.4	39
18	Seismic design and testing of buckling-restrained braces with a thin profile. Earthquake Engineering and Structural Dynamics, 2016, 45, 339-358.	4.4	45

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19	Seismic retrofit of reinforced concrete frames using buckling-restrained braces with bearing block load transfer mechanism. Earthquake Engineering and Structural Dynamics, 2016, 45, 2303-2326.	4.4	18
20	Suitability of using the torsional amplification factor to amplify accidental torsion. Engineering Structures, 2016, 127, 1-17.	5.3	4
21	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.	4.4	26
22	Full-Scale Pseudodynamic Testing of Self-Centering Steel Plate Shear Walls. Journal of Structural Engineering, 2016, 142, .	3.4	27
23	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.	4.4	30
24	Precast concrete wall with end columns (PreWEC) for earthquake resistant design. Earthquake Engineering and Structural Dynamics, 2015, 44, 2075-2092.	4.4	123
25	Experimental Investigation on the Seismic Retrofit of Existing Reinforced Concrete Buildings Using Steel Plate Shear Walls. , 2015, , .		1
26	Critical limit states in seismic buckling-restrained brace and connection designs. Earthquake Engineering and Structural Dynamics, 2015, 44, 1559-1579.	4.4	17
27	Real-valued modal response history analysis for asymmetric-plan buildings with nonlinear viscous dampers. Soil Dynamics and Earthquake Engineering, 2015, 77, 97-110.	3.8	5
28	Retrofit of reinforced concrete frames with buckling-restrained braces. Earthquake Engineering and Structural Dynamics, 2015, 44, 59-78.	4.4	71
29	Adaptive model-based tracking control for real-time hybrid simulation. Bulletin of Earthquake Engineering, 2015, 13, 1633-1653.	4.1	31
30	Evaluating the reliability of using the deflection amplification factor to estimate design displacements with accidental torsion effects. Earthquake and Structures, 2015, 8, 443-462.	1.0	2
31	An Energy-Based Approach to the Generalized Optimal Locations of Viscous Dampers in Two-Way Asymmetrical Buildings. Earthquake Spectra, 2014, 30, 867-889.	3.1	4
32	Seismic design and test of gusset connections for buckling-restrained braced frames. Earthquake Engineering and Structural Dynamics, 2014, 43, 565-587.	4.4	40
33	Real-time hybrid testing of a smart base isolation system. Earthquake Engineering and Structural Dynamics, 2014, 43, 139-158.	4.4	27
34	High-mode buckling responses of buckling-restrained brace core plates. Earthquake Engineering and Structural Dynamics, 2014, 43, 375-393.	4.4	104
35	Welded end-slot connection and debonding layers for buckling-restrained braces. Earthquake Engineering and Structural Dynamics, 2014, 43, 1785-1807.	4.4	64
36	Seismic design and testing of the bottom vertical boundary elements in steel plate shear walls. Part 1: design methodology. Earthquake Engineering and Structural Dynamics, 2014, 43, 2237-2259.	4.4	7

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37	Seismic design and testing of the bottom vertical boundary elements in steel plate shear walls. Part 2: experimental studies. Earthquake Engineering and Structural Dynamics, 2014, 43, 2155-2177.	4.4	13
38	Pseudo-dynamic Performance Evaluation of Full Scale Seismic Steel Braced Frame Braced frame Braced frame Braced frame Braced frame s Using Buckling-Restrained and In-Plane Buckling Braces. Geotechnical, Geological and Earthquake Engineering, 2014, , 237-249.	0.2	0
39	Theory and Applications of the 3-DOF Modal System for PBSE of Asymmetrical Buildings Asymmetrical buildings Asymmetrical buildings Asymmetrical buildings Asymmetrical buildings. Geotechnical, Geological and Earthquake Engineering, 2014, , 251-261.	0.2	0
40	Dual compensation strategy for real-time hybrid testing. Earthquake Engineering and Structural Dynamics, 2013, 42, 1-23.	4.4	34
41	Effective oscillators for the seismic analysis of inelastic one-way asymmetric-plan buildings. Engineering Structures, 2013, 52, 38-52.	5.3	1
42	Earthquake response analyses of a full-scale five-story steel frame equipped with two types of dampers. Earthquake Engineering and Structural Dynamics, 2013, 42, 1301-1320.	4.4	17
43	Application of Supplemental Damping Characteristics to Response Spectrum Analyses of Nonproportionally Damped Multistory Asymmetric-Plan Buildings. Earthquake Spectra, 2013, 29, 207-232.	3.1	4
44	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.	3.1	24
45	Inelastic Responses of Two-Way Asymmetric-Plan Structures under Bidirectional Ground Excitations"Part II: Response Spectra. Earthquake Spectra, 2012, 28, 141-157.	3.1	7
46	Inelastic Responses of Two-Way Asymmetric-Plan Structures under Bidirectional Ground Excitations"Part I: Modal Parameters. Earthquake Spectra, 2012, 28, 105-139.	3.1	4
47	An online optimization method for bridge dynamic hybrid simulations. Simulation Modelling Practice and Theory, 2012, 28, 42-54.	3.8	31
48	Investigation of the seismic response of three-story special concentrically braced frames. Journal of Constructional Steel Research, 2012, 77, 131-144.	3.9	51
49	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.	4.4	64
50	Cyclic test of a coupled steel plate shear wall substructure. Earthquake Engineering and Structural Dynamics, 2012, 41, 1277-1299.	4.4	32
51	Understanding the trends in torsional effects in asymmetric-plan buildings. Bulletin of Earthquake Engineering, 2012, 10, 955-965.	4.1	11
52	Full-scale fatigue tests of a cable-to-orthotropic bridge deck connection. Journal of Constructional Steel Research, 2012, 70, 264-272.	3.9	6
53	Estimation of the seismic energy demands of two-way asymmetric-plan building systems. Bulletin of Earthquake Engineering, 2011, 9, 603-621.	4.1	5
54	Influence of gusset plate connections and braces on the seismic performance of X-braced frames. Earthquake Engineering and Structural Dynamics, 2011, 40, 355-374.	4.4	52

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55	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.	4.4	29
56	Extremely large displacement dynamic analysis of elastic-plastic plane frames. Earthquake Engineering and Structural Dynamics, 2011, 40, 1515-1533.	4.4	20
57	Seismic rehabilitation performance of steel side plate moment connections. Earthquake Engineering and Structural Dynamics, 2010, 39, 23-44.	4.4	14
58	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.	4.4	21
59	Cyclic tests of four two-story narrow steel plate shear walls—Part 1: Analytical studies and specimen design. Earthquake Engineering and Structural Dynamics, 2010, 39, 775-799.	4.4	18
60	Cyclic responses of three 2-story seismic concentrically braced frames. Frontiers of Architecture and Civil Engineering in China, 2010, 4, 287-301.	0.4	5
61	Sub-structural pseudo-dynamic performance of two full-scale two-story steel plate shear walls. Journal of Constructional Steel Research, 2010, 66, 1467-1482.	3.9	20
62	Analytical studies of a full-scale steel building shaken to collapse. Engineering Structures, 2010, 32, 3418-3430.	5.3	17
63	Seismic steel jacketing of rectangular RC bridge columns for the mitigation of lap-splice failures. Earthquake Engineering and Structural Dynamics, 2010, 39, 1687-1710.	4.4	16
64	A Ground Motion Scaling Method considering Higher-Mode Effects and Structural Characteristics. Earthquake Spectra, 2010, 26, 841-867.	3.1	13
65	Coupled Tuned Mass Dampers for the Seismic Control of Asymmetric-Plan Buildings. Earthquake Spectra, 2010, 26, 749-778.	3.1	11
66	Construction of Response Spectra for Inelastic Asymmetric-Plan Structures. Geotechnical, Geological and Earthquake Engineering, 2010, , 203-211.	0.2	1
67	Seismic History Analysis of Asymmetric Buildings with Soil-Structure Interaction. Journal of Structural Engineering, 2009, 135, 101-112.	3.4	19
68	Modal Parameters for the Analysis of Inelastic Asymmetric-Plan Structures. Earthquake Spectra, 2009, 25, 821-849.	3.1	8
69	Self-centering steel connections with steel bars and a discontinuous composite slab. Earthquake Engineering and Structural Dynamics, 2009, 38, 403-422.	4.4	55
70	Seismic performance evaluation of a 34-story steel building retrofitted with response modification elements. Earthquake Engineering and Structural Dynamics, 2009, 38, 759-781.	4.4	8
71	Object-oriented development and application of a nonlinear structural analysis framework. Advances in Engineering Software, 2009, 40, 66-82.	3.8	55
72	Seismic analysis of two-way asymmetric building systems under bi-directional seismic ground motions. Earthquake Engineering and Structural Dynamics, 2008, 37, 305-328.	4.4	63

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73	Seismic self-centering steel beam-to-column moment connections using bolted friction devices. Earthquake Engineering and Structural Dynamics, 2008, 37, 627-645.	4.4	116
74	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.	4.4	110
75	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.	4.4	115
76	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.	3.4	102
77	Research Needs and Future Directions for Steel Plate Shear Walls. , 2008, , .		14
78	Seismic Analysis of Non Proportionally Damped Two-Way Asymmetric Elastic Buildings Under Bi-Directional Seismic Ground Motions. Journal of Earthquake Engineering, 2008, 12, 1139-1156.	2.5	5
79	High Performance Steel Material and Structures for Earthquake Resistant Buildings. , 2008, , 155-206.		0
80	Simplified seismic analysis of asymmetric building systems. Earthquake Engineering and Structural Dynamics, 2007, 36, 459-479.	4.4	33
81	Simplified seismic analysis of one-way asymmetric elastic systems with supplemental damping. Earthquake Engineering and Structural Dynamics, 2007, 36, 783-800.	4.4	15
82	ISEE: Internet-based Simulation for Earthquake Engineering"Part II: The application protocol approach. Earthquake Engineering and Structural Dynamics, 2007, 36, 2307-2323.	4.4	23
83	ISEE: Internet-based Simulation for Earthquake Engineering"Part I: Database approach. Earthquake Engineering and Structural Dynamics, 2007, 36, 2291-2306.	4.4	22
84	Overview of Taiwan Earthquake Loss Estimation System. Natural Hazards, 2006, 37, 23-37.	3.4	89
85	Study on the Fragility of Building Structures in Taiwan. Natural Hazards, 2006, 37, 55-69.	3.4	13
86	Evaluating performance of post-tensioned steel connections with strands and reduced flange plates. Earthquake Engineering and Structural Dynamics, 2006, 35, 1167-1185.	4.4	89
87	Educational Reconnaissance of the Area Affected by the 1999 Chi-Chi Earthquake"Three Years Later. Earthquake Spectra, 2005, 21, 31-52.	3.1	11
88	Plasticity-fibre model for steel triangular plate energy dissipating devices. Earthquake Engineering and Structural Dynamics, 2002, 31, 1643-1655.	4.4	6
89	Improved time integration for pseudodynamic tests. Earthquake Engineering and Structural Dynamics, 1998, 27, 711-730.	4.4	42