

# Masahiro Kurata

## List of Publications by Year in descending order

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70  
papers

694  
citations

566801

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642321

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docs citations

73  
times ranked

450  
citing authors

#	ARTICLE	IF	CITATIONS
1	Test, analysis, and design of ovallyâ€perforated verticallyâ€flexible steel plate shear wall (OVSPW). Earthquake Engineering and Structural Dynamics, 2022, 51, 66-85.	2.5	4
2	Local buckling behaviour of high-strength steel tubular columns subjected to one-sided cyclic loading and implications in seismic design of steel MRFs. Soil Dynamics and Earthquake Engineering, 2022, 154, 107115.	1.9	1
3	Component testing and multi-level seismic design of steel braced frames with high post-yielding stiffness and two-phase yielding. Soil Dynamics and Earthquake Engineering, 2022, 157, 107248.	1.9	3
4	Seismic evaluation of twoâ€elevation ceiling system by shake table tests. Earthquake Engineering and Structural Dynamics, 2021, 50, 1147-1166.	2.5	20
5	Steel beam with web opening reinforced by induction heating. Journal of Constructional Steel Research, 2021, 176, 106399.	1.7	3
6	Finite element model updating of an 18-story structure using branch-and-bound algorithm with epsilon-constraint. Journal of Civil Structural Health Monitoring, 2021, 11, 575-592.	2.0	7
7	Lessons for loss assessment from the Canterbury earthquakes: a 22-storey building. Bulletin of Earthquake Engineering, 2021, 19, 2081-2104.	2.3	10
8	Estimating Earthquake-Induced Displacement Responses of Building Structures Using Time-Varying Model and Limited Acceleration Data. Journal of Structural Engineering, 2021, 147, .	1.7	6
9	Experimental Investigation of Foam-Filled CHS Braces under Cyclic Loading. Journal of Structural Engineering, 2021, 147, .	1.7	2
10	Damage Control of Composite Steel Beams Using Flexible Gel-Covered Studs. Journal of Structural Engineering, 2020, 146, 04019216.	1.7	5
11	Multiple-Damage State Retrofit of Steel MRFs with Composite Beams Using a Minimal-Disturbance Arm Damper. Journal of Structural Engineering, 2020, 146, 04020169.	1.7	1
12	Induction-heat treated steel braces with intentional eccentricity. Engineering Structures, 2020, 211, 110461.	2.6	7
13	Investigating the vibration properties of integrated ceiling systems considering interactions with surrounding equipment. Earthquake Engineering and Structural Dynamics, 2020, 49, 772-793.	2.5	16
14	Study on I-shaped section steel braces partially strengthened by induction heating. Engineering Structures, 2020, 210, 110341.	2.6	6
15	Seismic performance evaluation of damage-controlled composite steel frame with flexible-gel-covered studs. Engineering Structures, 2020, 219, 110855.	2.6	3
16	Fragility function development and seismic loss assessment of expansion joints. Earthquake Engineering and Structural Dynamics, 2019, 48, 1007-1029.	2.5	8
17	Damage sequence and safety margin assessment of expansion joints by shake table testing. Earthquake Engineering and Structural Dynamics, 2019, 48, 3-26.	2.5	9
18	Probabilistic updating of fishbone model for assessing seismic damage to beamâ€column connections in steel momentâ€resisting frames. Computer-Aided Civil and Infrastructure Engineering, 2019, 34, 790-805.	6.3	14

#	ARTICLE	IF	CITATIONS
19	Numerical study on a fully-prefabricated damage-tolerant beam to column connection for an earthquake-resilient frame. <i>Engineering Structures</i> , 2018, 159, 320-331.	2.6	37
20	Development of a Minimal-Disturbance Rehabilitation System for Sustaining Bidirectional Loading. <i>Journal of Structural Engineering</i> , 2018, 144, 04018054.	1.7	1
21	On-line hybrid test method for evaluating the performance of structural details to failure. <i>Earthquake Engineering and Structural Dynamics</i> , 2018, 47, 555-572.	2.5	5
22	Postearthquake Strength Assessment of Steel Moment-Resisting Frame with Multiple Beam-Column Fractures Using Local Monitoring Data. <i>Journal of Structural Engineering</i> , 2018, 144, 04017217.	1.7	16
23	Use of induction-heating in steel structures: Material properties and novel brace design. <i>Journal of Constructional Steel Research</i> , 2018, 148, 112-123.	1.7	10
24	Minimal-Disturbance Arm Damper Retrofitting: Evaluation of Retrofit Effect Using Multi-Span Steel Frame Specimens. <i>Key Engineering Materials</i> , 2018, 763, 1113-1120.	0.4	0
25	Force redistribution of steel moment-resisting frame retrofitted with a minimal disturbance arm damper. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 114, 159-173.	1.9	3
26	Seismic Capacity Quantification of Gusset-Plate Connections to Fracture for Ductility-Based Design. <i>Journal of Structural Engineering</i> , 2018, 144, .	1.7	10
27	Decoupling algorithm for evaluating multiple beam damages in steel moment-resisting frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 1045-1064.	2.5	12
28	Residual structural capacity evaluation of steel moment-resisting frames with dynamic-strain-based model updating method. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 1791-1810.	2.5	13
29	Local deformation-based design of minimal-disturbance arm damper for retrofitting steel moment-resisting frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 1493-1509.	2.5	4
30	Long-Term Modal Analysis of Wireless Structural Monitoring Data from a Suspension Bridge under Varying Environmental and Operational Conditions: System Design and Automated Modal Analysis. <i>Journal of Engineering Mechanics - ASCE</i> , 2017, 143, .	1.6	38
31	Gusset Plate Connections for Naturally Buckling Braces. <i>Journal of Structural Engineering</i> , 2017, 143, .	1.7	14
32	Base shear capping buildings with graphite-lubricated bases for collapse prevention in extreme earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2017, 46, 1003-1021.	2.5	10
33	Building Damage Estimates Using Slowness Change in Propagating Waves. <i>Journal of Structural Engineering</i> , 2017, 143, .	1.7	4
34	Journal of Structural and Construction Engineering, 2017, 143, .		
35	SLIPPING BEHAVIOR OF BASE SHEAR CAPPING BUILDINGS FOR COLLAPSE PREVENTION AND REQUIRED MAXIMUM STRENGTH. <i>Journal of Structural and Construction Engineering</i> , 2017, 82, 1769-1776.	0.2	1
36	Cyclic Behavior of Multirow Slit Shear Walls Made from Low-Yield-Point Steel. <i>Journal of Structural Engineering</i> , 2016, 142, .	1.7	26

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37	Minimal-disturbance seismic rehabilitation of steel moment-resisting frames using light-weight steel elements. Earthquake Engineering and Structural Dynamics, 2016, 45, 383-400.	2.5	8
38	SEISMIC BEHAVIOR AND DESIGN OF ASSEMBLED SLIT SHEAR WALLS USING LOW YIELD POINT STEEL. Journal of Structural and Construction Engineering, 2016, 81, 335-343.	0.2	1
39	Macromodeling of Crack Damage in Steel Beams Subjected to Nonstationary Low Cycle Fatigue. Journal of Structural Engineering, 2016, 142, .	1.7	14
40	Fully integrated patterned carbon nanotube strain sensors on flexible sensing skin substrates for structural health monitoring. , 2016, , .		3
41	Simplified Derivation of a Damage Curve for Seismically Induced Beam Fractures in Steel Moment-Resisting Frames. Journal of Structural Engineering, 2016, 142, .	1.7	12
42	INTEGRITY ASSESSMENT OF STEEL BEAM-COLUMN CONNECTIONS USING AMBIENT-BASED INNER-FORCE ESTIMATES. Journal of Structural and Construction Engineering, 2015, 80, 1045-1053.	0.2	0
43	SEISMIC REHABILITATION OF STEEL FRAMES WITH MINIMAL-DISTURBANCE USING TENSION-RODS AND STEEL BENDING PLATES. Journal of Structural and Construction Engineering, 2015, 80, 491-499.	0.2	0
44	DEVELOPMENT OF MULTI-ROW SLIT SHEAR WALLS USING LOW YIELD POINT STEEL. Journal of Structural and Construction Engineering, 2015, 80, 501-509.	0.2	0
45	DESIGN PROCEDURE FOR SEISMIC RETROFIT USING STUD-TYPE DAMPERS IN CONSIDERATION OF STRENGTH AND STIFFNESS OF SURROUNDING FRAMES. Journal of Structural and Construction Engineering, 2015, 80, 811-818.	0.2	0
46	RESTORING FORCE CHARACTERISTIC AND ULTIMATE BEHAVIOR OF CONCRETE FILLED STEEL TUBE COLUMNS USING ULTRA-HIGH STRENGTH STEEL H-SA700. Journal of Structural and Construction Engineering, 2015, 80, 2001-2009.	0.2	2
47	Seismic Retrofit of Steel Frames with Minimal-Disturbance. , 2015, , .		1
48	Evaluating damage extent of fractured beams in steel moment-resisting frames using dynamic strain responses. Earthquake Engineering and Structural Dynamics, 2015, 44, 563-581.	2.5	20
49	Quantification of seismic damage in steel beam-column connection using PVDF strain sensors and model-updating technique. Proceedings of SPIE, 2015, , .	0.8	1
50	Steel slit shear walls with double-tapered links capable of condition assessment. Earthquake Engineering and Structural Dynamics, 2015, 44, 1271-1287.	2.5	16
51	Condition assessment of steel shear walls with tapered links under various loadings. Earthquake and Structures, 2015, 9, 767-788.	1.0	3
52	Earthquake engineering research needs in light of lessons learned from the 2011 Tohoku earthquake. Earthquake Engineering and Engineering Vibration, 2014, 13, 141-149.	1.1	41
53	Free-standing carbon nanotube composite sensing skin for distributed strain sensing in structures. , 2014, , .		2
54	Disorder and damage of base-isolated medical facilities when subjected to near-fault and long-period ground motions. Earthquake Engineering and Structural Dynamics, 2014, 43, 1683-1701.	2.5	50

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55	CHANGES IN VIBRATION CHARACTERISTICS OF STEEL BEAM-COLUMN CONNECTIONS WITH COMPOSITE BEAMS UNDER CYCLIC LOADING. Journal of Structural and Construction Engineering, 2014, 79, 1271-1278.	0.2	2
56	Substructure resonance vibration testing for evaluating damage sensitive features: concept and preliminary results. Proceedings of SPIE, 2014, , .	0.8	0
57	H $\hat{z}$ control in the frequency domain for a semi-active floor isolation system. Frontiers of Structural and Civil Engineering, 2013, 7, 264-275.	1.2	4
58	Piezoelectric dynamic strain monitoring for detecting local seismic damage in steel buildings. Smart Materials and Structures, 2013, 22, 115002.	1.8	31
59	DESIGN PROCEDURE FOR PANELS STIFFENING STEEL SHEAR WALLS WITH SLITS. Journal of Structural and Construction Engineering, 2013, 78, 987-995.	0.2	1
60	Distributed cyberinfrastructure tools for automated data processing of structural monitoring data. , 2012, , .		6
61	Bayesian Model Updating Approach for Systematic Damage Detection of Plate-Type Structures. Conference Proceedings of the Society for Experimental Mechanics, 2012, , 85-94.	0.3	5
62	Rapid Seismic Rehabilitation Strategy: Concept and Testing of Cable Bracing with Couples Resisting Damper. Journal of Structural Engineering, 2012, 138, 354-362.	1.7	35
63	Steel plate shear wall with tension-bracing for seismic rehabilitation of steel frames. Journal of Constructional Steel Research, 2012, 71, 92-103.	1.7	36
64	Long-term assessment of an autonomous wireless structural health monitoring system at the new Carquinez Suspension Bridge. Proceedings of SPIE, 2011, , .	0.8	22
65	A two-tiered self-powered wireless monitoring system architecture for bridge health management. Proceedings of SPIE, 2010, , .	0.8	4
66	A Probabilistic Model Updating Algorithm for Fatigue Damage Detection in Aluminum Hull Structures. , 2010, , .		12
67	Proof of Concept Testing of Cable Bracing System with Rotating Central Energy Dissipater. , 2009, , .		1
68	EFFECT OF COLUMN BASE BEHAVIOUR ON THE SEISMIC RESPONSE OF STEEL MOMENT FRAMES. Journal of Earthquake Engineering, 2005, 9, 415-438.	1.4	24
69	On-Line Testing of Steel Brace Connections Using Non-Linear Substructuring and Force-Displacement Combined Control. Key Engineering Materials, 0, 763, 510-517.	0.4	0
70	Verification of multi-degree-of-freedom building modelling for seismic response prediction based on microtremor measurement. Earthquake Engineering and Structural Dynamics, 0, , .	2.5	2