Masahiro Kurata

List of Publications by Year
in descending order

70	694	566801 15	642321 23
papers	citations	h-index	g-index

73	73	73	450
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Disorder and damage of baseâ€isolated medical facilities when subjected to nearâ€fault and longâ€period ground motions. Earthquake Engineering and Structural Dynamics, 2014, 43, 1683-1701.	2.5	50
2	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
3	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. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	38
4	Numerical study on a fully-prefabricated damage-tolerant beam to column connection for an earthquake-resilient frame. Engineering Structures, 2018, 159, 320-331.	2.6	37
5	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
6	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
7	Piezoelectric dynamic strain monitoring for detecting local seismic damage in steel buildings. Smart Materials and Structures, 2013, 22, 115002.	1.8	31
8	Cyclic Behavior of Multirow Slit Shear Walls Made from Low-Yield-Point Steel. Journal of Structural Engineering, 2016, 142, .	1.7	26
9	EFFECT OF COLUMN BASE BEHAVIOUR ON THE SEISMIC RESPONSE OF STEEL MOMENT FRAMES. Journal of Earthquake Engineering, 2005, 9, 415-438.	1.4	24
10	Long-term assessment of an autonomous wireless structural health monitoring system at the new Carquinez Suspension Bridge. Proceedings of SPIE, 2011, , .	0.8	22
11	Evaluating damage extent of fractured beams in steel momentâ€resisting frames using dynamic strain responses. Earthquake Engineering and Structural Dynamics, 2015, 44, 563-581.	2.5	20
12	Seismic evaluation of twoâ€elevation ceiling system by shake table tests. Earthquake Engineering and Structural Dynamics, 2021, 50, 1147-1166.	2.5	20
13	Steel slit shear walls with doubleâ€tapered links capable of condition assessment. Earthquake Engineering and Structural Dynamics, 2015, 44, 1271-1287.	2.5	16
14	Postearthquake Strength Assessment of Steel Moment-Resisting Frame with Multiple Beam-Column Fractures Using Local Monitoring Data. Journal of Structural Engineering, 2018, 144, 04017217.	1.7	16
15	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
16	Macromodeling of Crack Damage in Steel Beams Subjected to Nonstationary Low Cycle Fatigue. Journal of Structural Engineering, 2016, 142, .	1.7	14
17	Gusset Plate Connections for Naturally Buckling Braces. Journal of Structural Engineering, 2017, 143, .	1.7	14
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	Residual structural capacity evaluation of steel momentâ€resisting frames with dynamicâ€strainâ€based model updating method. Earthquake Engineering and Structural Dynamics, 2017, 46, 1791-1810.	2.5	13
20	A Probabilistic Model Updating Algorithm for Fatigue Damage Detection in Aluminum Hull Structures. , 2010, , .		12
21	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
22	Decoupling algorithm for evaluating multiple beam damages in steel momentâ€resisting frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 1045-1064.	2.5	12
23	Base shear capping buildings with graphiteâ€lubricated bases for collapse prevention in extreme earthquakes. Earthquake Engineering and Structural Dynamics, 2017, 46, 1003-1021.	2.5	10
24	Use of induction-heating in steel structures: Material properties and novel brace design. Journal of Constructional Steel Research, 2018, 148, 112-123.	1.7	10
25	Seismic Capacity Quantification of Gusset-Plate Connections to Fracture for Ductility-Based Design. Journal of Structural Engineering, 2018, 144, .	1.7	10
26	Lessons for loss assessment from the Canterbury earthquakes: a 22-storey building. Bulletin of Earthquake Engineering, 2021, 19, 2081-2104.	2.3	10
27	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
28	Minimalâ€disturbance seismic rehabilitation of steel momentâ€resisting frames using lightâ€weight steel elements. Earthquake Engineering and Structural Dynamics, 2016, 45, 383-400.	2.5	8
29	Fragility function development and seismic loss assessment of expansion joints. Earthquake Engineering and Structural Dynamics, 2019, 48, 1007-1029.	2.5	8
30	Induction-heat treated steel braces with intentional eccentricity. Engineering Structures, 2020, 211, 110461.	2.6	7
31	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
32	Distributed cyberinfrastructure tools for automated data processing of structural monitoring data. , 2012, , .		6
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34	Study on I-shaped section steel braces partially strengthened by induction heating. Engineering Structures, 2020, 210, 110341.	2.6	6
35	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
36	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

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37	Onâ€line hybrid test method for evaluating the performance of structural details to failure. Earthquake Engineering and Structural Dynamics, 2018, 47, 555-572.	2.5	5
38	Damage Control of Composite Steel Beams Using Flexible Gel-Covered Studs. Journal of Structural Engineering, 2020, 146, 04019216.	1.7	5
39	A two-tiered self-powered wireless monitoring system architecture for bridge health management. Proceedings of SPIE, 2010, , .	0.8	4
40	H âˆž 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
41	Local deformationâ€based design of minimalâ€disturbance arm damper for retrofitting steel momentâ€resisting frames. Earthquake Engineering and Structural Dynamics, 2017, 46, 1493-1509.	2.5	4
42	Building Damage Estimates Using Slowness Change in Propagating Waves. Journal of Structural Engineering, 2017, 143, .	1.7	4
43	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
44	Fully integrated patterned carbon nanotube strain sensors on flexible sensing skin substrates for structural health monitoring. , 2016, , .		3
45	Force redistribution of steel moment-resisting frame retrofitted with a minimal disturbance arm damper. Soil Dynamics and Earthquake Engineering, 2018, 114, 159-173.	1.9	3
46	Steel beam with web opening reinforced by induction heating. Journal of Constructional Steel Research, 2021, 176, 106399.	1.7	3
47	Seismic performance evaluation of damage-controlled composite steel frame with flexible-gel-covered studs. Engineering Structures, 2020, 219, 110855.	2.6	3
48	Condition assessment of steel shear walls with tapered links under various loadings. Earthquake and Structures, 2015, 9, 767-788.	1.0	3
49	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
50	Free-standing carbon nanotube composite sensing skin for distributed strain sensing in structures. , 2014, , .		2
51	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
52	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
53	Experimental Investigation of Foam-Filled CHS Braces under Cyclic Loading. Journal of Structural Engineering, 2021, 147, .	1.7	2
54	Verification of multiâ€degreeâ€ofâ€freedom building modelling for seismic response prediction based on microtremor measurement. Earthquake Engineering and Structural Dynamics, 0, , .	2.5	2

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55	Proof of Concept Testing of Cable Bracing System with Rotating Central Energy Dissipater. , 2009, , .		1
56	DESIGN PROCEDURE FOR PANELS STIFFENING STEEL SHEAR WALLS WITH SLITS. Journal of Structural and Construction Engineering, 2013, 78, 987-995.	0.2	1
57	Seismic Retrofit of Steel Frames with Minimal-Disturbance. , 2015, , .		1
58	Quantification of seismic damage in steel beam-column connection using PVDF strain sensors and model-updating technique. Proceedings of SPIE, 2015, , .	0.8	1
59	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
60	Development of a Minimal-Disturbance Rehabilitation System for Sustaining Bidirectional Loading. Journal of Structural Engineering, 2018, 144, 04018054.	1.7	1
61	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
62	SLIPPING BEHAVIOR OF BASE SHEAR CAPPING BUILDINGS FOR COLLAPSE PREVENTION AND REQUIRED MAXIMUM STRENGTH. Journal of Structural and Construction Engineering, 2017, 82, 1769-1776.	0.2	1
63	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
64	Substructure resonance vibration testing for evaluating damage sensitive features: concept and preliminary results. Proceedings of SPIE, 2014, , .	0.8	0
65	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
66	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
67	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
68	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
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	Minimal-Disturbance Arm Damper Retrofitting: Evaluation of Retrofit Effect Using Multi-Span Steel Frame Specimens. Key Engineering Materials, 2018, 763, 1113-1120.	0.4	0