Richard Sause

List of Publications by Year
in descending order

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101 papers	5,879 citations	94269 37 h-index	74018 75 g-index
102 all docs	102 docs citations	102 times ranked	2083 citing authors

#	Article	IF	Citations
1	Posttensioned Seismic-Resistant Connections for Steel Frames. Journal of Structural Engineering, 2001, 127, 113-121.	1.7	445
2	Axial Behavior of Reinforced Concrete Columns Confined with FRP Jackets. Journal of Composites for Construction, 2001, 5, 237-245.	1.7	432
3	Experimental Evaluation of a Large-Scale Buckling-Restrained Braced Frame. Journal of Structural Engineering, 2007, 133, 1205-1214.	1.7	266
4	Experimental Studies of Full-Scale Posttensioned Steel Connections. Journal of Structural Engineering, 2005, 131, 438-448.	1.7	235
5	Seismic behavior and modeling of high-strength composite concrete-filled steel tube (CFT) beamâ€“columns. Journal of Constructional Steel Research, 2002, 58, 725-758.	1.7	228
6	Shear Behavior of Corrugated Web Bridge Girders. Journal of Structural Engineering, 2006, 132, 195-203.	1.7	221
7	Behavior and Design of Posttensioned Steel Frame Systems. Journal of Structural Engineering, 2007, 133, 389-399.	1.7	217
8	Experimental Study of a Self-Centering Beamâ€“Column Connection with Bottom Flange Friction Device. Journal of Structural Engineering, 2009, 135, 479-488.	1.7	170
9	Seismic Behavior and Design of Unbonded Post-Tensioned Precast Concrete Walls. PCI Journal, 1999, 44, 72-89.	0.4	170
10	Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. Journal of Structural Engineering, 2002, 128, 309-318.	1.7	164
11	Shear strength of trapezoidal corrugated steel webs. Journal of Constructional Steel Research, 2011, 67, 223-236.	1.7	160
12	Analytical and Experimental Lateral Load Behavior of Unbonded Posttensioned Precast Concrete Walls. Journal of Structural Engineering, 2007, 133, 1531-1540.	1.7	159
13	Seismic Response and Performance of Buckling-Restrained Braced Frames. Journal of Structural Engineering, 2007, 133, 1195-1204.	1.7	151
14	Selfâ€centering friction spring dampers for seismic resilience. Earthquake Engineering and Structural Dynamics, 2019, 48, 1045-1065.	2.5	144
15	Seismic Behavior and Design of High-Strength Square Concrete-Filled Steel Tube Beam Columns. Journal of Structural Engineering, 2004, 130, 169-179.	1.7	143
16	Seismic Behavior and Design of Unbonded Post-Tensioned Precast Concrete Frames. PCI Journal, 1999, 44, 54-71.	0.4	116
17	Behavior of Corrugated Web I-Girders under In-Plane Loads. Journal of Engineering Mechanics - ASCE, 2006, 132, 806-814.	1.6	102
18	Cyclic Load Tests and Analysis of Bolted Top-and-Seat Angle Connections. Journal of Structural Engineering, 2003, 129, 1615-1625.	1.7	100

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19	Seismic Performance of Steel Self-Centering, Moment-Resisting Frame: Hybrid Simulations under Design Basis Earthquake. Journal of Structural Engineering, 2013, 139, 1823-1832.	1.7	100
20	Innovative use of a shape memory alloy ring spring system for self-centering connections. Engineering Structures, 2017, 153, 503-515.	2.6	99
21	Experimental Investigation of Self-Centering Cross-Laminated Timber Walls. Journal of Structural Engineering, 2017, 143, .	1.7	96
22	Analysis of Flange Transverse Bending of Corrugated Web I-Girders under In-Plane Loads. Journal of Structural Engineering, 2007, 133, 347-355.	1.7	91
23	Experimental evaluation of the seismic performance of steel MRFs with compressed elastomer dampers using large-scale real-time hybrid simulation. Engineering Structures, 2011, 33, 1859-1869.	2.6	85
24	Seismic performance and probabilistic collapse resistance assessment of steel moment resisting frames with fluid viscous dampers. Earthquake Engineering and Structural Dynamics, 2014, 43, 2135-2154.	2.5	75
25	Seismic Performance of a Large-Scale Steel Self-Centering Moment-Resisting Frame: MCE Hybrid Simulations and Quasi-Static Pushover Tests. Journal of Structural Engineering, 2013, 139, 1227-1236.	1.7	71
26	Time-Dependent Reliability of PSC Box-Girder Bridge Considering Creep, Shrinkage, and Corrosion. Journal of Bridge Engineering, 2011, 16, 29-43.	1.4	69
27	Design Concepts for Damage-Free Seismic-Resistant Self-Centering Steel Concentrically Braced Frames. , 2009, , .		65
28	Analytical and Experimental Lateral-Load Response of Self-Centering Posttensioned CLT Walls. Journal of Structural Engineering, 2017, 143, .	1.7	63
29	Simplified analysis of flange transverse bending of corrugated web I-girders under in-plane moment and shear. Engineering Structures, 2007, 29, 2816-2824.	2.6	62
30	Application of an Innovative SMA Ring Spring System for Self-Centering Steel Frames Subject to Seismic Conditions. Journal of Structural Engineering, 2018, 144, .	1.7	60
31	Behavior and Design of Self-Centering Energy Dissipative Devices Equipped with Superelastic SMA Ring Springs. Journal of Structural Engineering, 2019, 145, .	1.7	60
32	Simplified design procedure for frame buildings with viscoelastic or elastomeric structural dampers. Earthquake Engineering and Structural Dynamics, 2005, 34, 1271-1284.	2.5	59
33	Influence of design parameters on seismic response of post-tensioned steel MRF systems. Engineering Structures, 2008, 30, 1037-1047.	2.6	55
34	Ductility demands on buckling-restrained braced frames under earthquake loading. Earthquake Engineering and Engineering Vibration, 2003, 2, 255-268.	1.1	52
35	Evaluation of a real-time hybrid simulation system for performance evaluation of structures with rate dependent devices subjected to seismic loading. Engineering Structures, 2012, 35, 71-82.	2.6	52
36	Flexural strength of tubular flange girders. Journal of Constructional Steel Research, 2009, 65, 622-630.	1.7	51

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37	Implementation and application of the unconditionally stable explicit parametrically dissipative KRâ€Î± method for realâ€time hybrid simulation. Earthquake Engineering and Structural Dynamics, 2015, 44, 735-755.	2.5	47
38	Analysis of local elastic shear buckling of trapezoidal corrugated steel webs. Journal of Constructional Steel Research, 2014, 102, 59-71.	1.7	41
39	Fatigue Life of Girders with Trapezoidal Corrugated Webs. Journal of Structural Engineering, 2006, 132, 1070-1078.	1.7	38
40	Seismic Response and Performance of a Steel MRF Building with Nonlinear Viscous Dampers under DBE and MCE. Journal of Structural Engineering, 2016, 142, .	1.7	38
41	Behavior of Hollow Tubular-Flange Girder Systems for Curved Bridges. Journal of Structural Engineering, 2010, 136, 174-182.	1.7	35
42	Largeâ€scale realâ€time hybrid simulation of a threeâ€story steel frame building with magnetoâ€rheological dampers. Earthquake Engineering and Structural Dynamics, 2014, 43, 1915-1933.	2.5	34
43	Modified predictor-corrector numerical scheme for real-time pseudo dynamic tests using state-space formulation. Earthquake Engineering and Structural Dynamics, 2005, 34, 271-288.	2.5	33
44	Lateral Torsional Buckling Strength of Tubular Flange Girders. Journal of Structural Engineering, 2008, 134, 902-910.	1.7	33
45	Seismic Performance Evaluation of a Large-Scale Composite MRF Using Pseudodynamic Testing. Journal of Structural Engineering, 2008, 134, 279-288.	1.7	33
46	Modeling of a largeâ€scale magnetoâ€rheological damper for seismic hazard mitigation. Part I: Passive mode. Earthquake Engineering and Structural Dynamics, 2013, 42, 669-685.	2.5	33
47	Accurate realâ€time hybrid earthquake simulations on largeâ€scale MDOF steel structure with nonlinear viscous dampers. Earthquake Engineering and Structural Dynamics, 2015, 44, 2035-2055.	2.5	32
48	SMA-Based Low-Damage Solution for Self-Centering Steel and Composite Beam-to-Column Connections. Journal of Structural Engineering, 2020, 146, .	1.7	31
49	Seismic design and evaluation of steel momentâ€resisting frames with compressed elastomer dampers. Earthquake Engineering and Structural Dynamics, 2012, 41, 411-429.	2.5	30
50	Development of deformable connection for earthquakeâ€resistant buildings to reduce floor accelerations and force responses. Earthquake Engineering and Structural Dynamics, 2016, 45, 1473-1494.	2.5	30
51	Fatigue of web-flange weld of corrugated web girders: 1. Influence of web corrugation geometry and flange geometry on web-flange weld toe stresses. International Journal of Fatigue, 2005, 27, 373-381.	2.8	29
52	Experimental study of deformable connection consisting of friction device and rubber bearings to connect floor system to lateral force resisting system. Earthquake Engineering and Structural Dynamics, 2018, 47, 1032-1053.	2.5	29
53	Objectâ€Oriented Approaches for Integrated Engineering Design Systems. Journal of Computing in Civil Engineering, 1992, 6, 248-265.	2.5	27
54	Large-Scale Experimental Studies of Structural Control Algorithms for Structures with Magnetorheological Dampers Using Real-Time Hybrid Simulation. Journal of Structural Engineering, 2013, 139, 1215-1226.	1.7	27

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55	Strength and Ductility of HPS-100W I-Girders in Negative Flexure. Journal of Bridge Engineering, 2001, 6, 316-323.	1.4	25
56	Performance-Based Seismic Design of Steel MRFs with Elastomeric Dampers. Journal of Structural Engineering, 2009, 135, 489-498.	1.7	25
57	Experimental Study of Tubular Flange Girders. Journal of Structural Engineering, 2008, 134, 384-392.	1.7	24
58	Finite element analysis of curved steel girders with tubular flanges. Engineering Structures, 2010, 32, 319-327.	2.6	23
59	Modeling of a largeâ€scale magnetoâ€rheological damper for seismic hazard mitigation. Part II: Semiâ€active mode. Earthquake Engineering and Structural Dynamics, 2013, 42, 687-703.	2.5	23
60	Shakeâ€table test performance of an inertial forceâ€limiting floor anchorage system. Earthquake Engineering and Structural Dynamics, 2018, 47, 1987-2011.	2.5	22
61	A design process model for computer integrated structural engineering. Engineering With Computers, 1990, 6, 129-143.	3.5	20
62	Seismic Response and Damage of Reduced-Strength Steel MRF Structures with Nonlinear Viscous Dampers. Journal of Structural Engineering, 2018, 144, .	1.7	18
63	Overview of entity-based integrated design product and process models. Advances in Engineering Software, 1998, 29, 809-823.	1.8	16
64	Earthquake Simulations on a Self-Centering Steel Moment Resisting Frame with Web Friction Devices. , 2009, , .		16
65	Innovative steel bridge girders with tubular flanges. Structure and Infrastructure Engineering, 2015, 11, 450-465.	2.0	16
66	Experimental study of deformable connection consisting of bucklingâ€restrained brace and rubber bearings to connect floor system to lateral force resisting system. Earthquake Engineering and Structural Dynamics, 2017, 46, 1287-1305.	2.5	15
67	A design process model for computer integrated structural engineering: Design phases and tasks. Engineering With Computers, 1991, 7, 145-160.	3.5	14
68	Kinematic transformations for planar multi-directional pseudodynamic testing. Earthquake Engineering and Structural Dynamics, 2009, 38, 1093-1119.	2.5	12
69	Seismic performance of steel MRF building with nonlinear viscous dampers. Frontiers of Structural and Civil Engineering, 2016, 10, 254-271.	1.2	11
70	Modeling and seismic collapse resistance study of a steel SC-MRF. Soil Dynamics and Earthquake Engineering, 2018, 113, 324-338.	1.9	9
71	Rate-Independent and Rate-Dependent Models for Hysteretic Behavior of Elastomers. Journal of Engineering Mechanics - ASCE, 2007, 133, 1162-1170.	1.6	8
72	Investigation of Damaged 12-Year Old Prestressed Concrete Box Beams. Journal of Bridge Engineering, 2008, 13, 139-148.	1.4	8

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73	Fatigue Performance of Stiffened Pole-to-Base Plate Socket Connections in High-Mast Structures. Journal of Structural Engineering, 2012, 138, 1203-1213.	1.7	7
74	NHERI Lehigh Experimental Facility With Large-Scale Multi-Directional Hybrid Simulation Testing Capabilities. Frontiers in Built Environment, 2020, 6, .	1.2	7
75	Real-time large-scale hybrid testing for seismic performance evaluation of smart structures. Smart Structures and Systems, 2008, 4, 667-684.	1.9	6
76	An Overview of Self-Centering Steel Moment Frames. , 2009, , .		5
77	Fatigue Performance of Groove-Welded Tube-to-End-Plate Connections in Highway Sign, Luminaire, and Traffic Signal Structures. Transportation Research Record, 2010, 2152, 63-70.	1.0	5
78	Inertial Force-Limiting Anchorage System for Seismic Resistant Building Structures. , 2015, , .		5
79	Design of Horizontally Curved Steel Bridge Girders with Tubular Flanges. Journal of Bridge Engineering, 2019, 24, .	1.4	5
80	Modeling of nonlinear viscous damper response for analysis and design of earthquake-resistant building structures. Bulletin of Earthquake Engineering, 2022, 20, 1841-1864.	2.3	5
81	Sequence Control for Integrated Structural Design Models. Journal of Computing in Civil Engineering, 1996, 10, 213-225.	2.5	4
82	Evaluation of Structural Control Strategies for Improving Seismic Performance of Buildings with MR Dampers Using Real-Time Large-Scale Hybrid Simulation. , 2010, , .		4
83	Performance-Based Seismic Design and Experimental Evaluation of Steel MRFs with Compressed Elastomer Dampers. Geotechnical, Geological and Earthquake Engineering, 2010, , 277-286.	0.1	4
84	Data Model for Large-Scale Structural Experiments. Journal of Earthquake Engineering, 2008, 12, 115-135.	1.4	3
85	Lateral Load Response of Unbonded Post-Tensioned Cast-in-Place Concrete Walls. , 2015, , .		3
86	Study of horizontally curved bridge girders with tubular top flanges. Structure and Infrastructure Engineering, 2016, 12, 786-800.	2.0	3
87	Experimental and analytical investigation of system of horizontally curved bridge girders with tubular top flanges. Structure and Infrastructure Engineering, 2018, 14, 1664-1677.	2.0	3
88	Seismic Performance of Steel MRF Structures with Nonlinear Viscous Dampers from Real-Time Hybrid Simulations. Key Engineering Materials, 0, 763, 967-974.	0.4	3
89	Nonlinear Structural Response to Low-Cut Filtered Ground Acceleration Records. Journal of Earthquake Engineering, 2013, 17, 1212-1232.	1.4	2
90	Development of equivalent linear systems for single-degree-of-freedom structures with magneto-rheological dampers for seismic design application. Journal of Intelligent Material Systems and Structures, 2017, 28, 2675-2687.	1.4	2

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91	Design and experimental evaluation of steel MRF with magneto-rheological dampers for seismic hazard mitigation. , 2009, , .		2
92	Frame-Spine System with Force-Limiting Connections for Low-Damage Seismic-Resilient Buildings. Lecture Notes in Civil Engineering, 2022, , 804-811.	0.3	2
93	Flexural Capacity of Compact and Noncompact High-Performance Steel Plate Girders. Transportation Research Record, 2000, 1712, 147-156.	1.0	1
94	Closure to â€œExperimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columnsâ€•by Amit H. Varma, James M. Ricles, Richard Sause, and Le-We Lu. Journal of Structural Engineering, 2003, 129, 1286-1286.	1.7	1
95	Earthquake Resistant Post-Tensioned Connections to Concrete Filled HSS Columns. , 2007, , 1.		1
96	Performance-Based Design of Self-Centering Steel Frame Systems. Geotechnical, Geological and Earthquake Engineering, 2010, , 287-296.	0.1	1
97	Experimental Evaluation of the Seismic Performance of Steel Buildings with Passive Dampers Using Real-Time Hybrid Simulation. Geotechnical, Geological and Earthquake Engineering, 2012, , 323-343.	0.1	1
98	Performance-Based Design Procedure for Structures with Magneto-Rheological Dampers. , 2015, , 1885-1898.		1
99	Experimental Behavior and Performance Evaluation of a Large-Scale Composite MRF System under Seismic Loading. , 2007, , 1.		0
100	Composite Steel Tee Concrete Deck Bridge System: Performance of Interface Shear Connection. Journal of Bridge Engineering, 2021, 26, 04021003.	1.4	0
101	Performance-Based Design Procedure for Structures with Magneto-Rheological Dampers. , 2021, , 1-14.		0