

## List of Publications by Year in descending order

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80  
papers

3,242  
citations

126901

33  
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155644

55  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1197  
citing authors

#	ARTICLE	IF	CITATIONS
1	Research and practice on progressive collapse and robustness of building structures in the 21st century. <i>Engineering Structures</i> , 2018, 173, 122-149.	5.3	309
2	A shear wall element for nonlinear seismic analysis of super-tall buildings using OpenSees. <i>Finite Elements in Analysis and Design</i> , 2015, 98, 14-25.	3.2	221
3	Collapse simulation of reinforced concrete high-rise building induced by extreme earthquakes. <i>Earthquake Engineering and Structural Dynamics</i> , 2013, 42, 705-723.	4.4	203
4	Experimental investigation of progressive collapse resistance of one-way reinforced concrete beam-slab substructures under a middle-column-removal scenario. <i>Engineering Structures</i> , 2016, 118, 28-40.	5.3	167
5	Experimental investigation of RC beam-slab substructures against progressive collapse subject to an edge-column-removal scenario. <i>Engineering Structures</i> , 2017, 149, 91-103.	5.3	161
6	An improved tie force method for progressive collapse resistance design of reinforced concrete frame structures. <i>Engineering Structures</i> , 2011, 33, 2931-2942.	5.3	159
7	New analytical calculation models for compressive arch action in reinforced concrete structures. <i>Engineering Structures</i> , 2018, 168, 721-735.	5.3	89
8	A coarse-grained parallel approach for seismic damage simulations of urban areas based on refined models and GPU/CPU cooperative computing. <i>Advances in Engineering Software</i> , 2014, 70, 90-103.	3.8	86
9	A nonlinear computational model for regional seismic simulation of tall buildings. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 1047-1069.	4.1	85
10	Earthquake-induced collapse simulation of a super-tall mega-braced frame-core tube building. <i>Journal of Constructional Steel Research</i> , 2013, 82, 59-71.	3.9	75
11	Collapse simulation of a super high-rise building subjected to extremely strong earthquakes. <i>Science China Technological Sciences</i> , 2011, 54, 2549-2560.	4.0	72
12	Framework for city-scale building seismic resilience simulation and repair scheduling with labor constraints driven by time-history analysis. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 322-341.	9.8	66
13	Seismic behavior and modeling of steel reinforced concrete (SRC) walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 955-972.	4.4	64
14	Digital twin-based collapse fragility assessment of a long-span cable-stayed bridge under strong earthquakes. <i>Automation in Construction</i> , 2021, 123, 103547.	9.8	62
15	Experimental Study and Numerical Model Calibration for Earthquake-Induced Collapse of RC Frames with Emphasis on Key Columns, Joints, and the Overall Structure. <i>Journal of Earthquake Engineering</i> , 2015, 19, 1320-1344.	2.5	58
16	A preliminary analysis and discussion of the condominium building collapse in surfside, Florida, US, June 24, 2021. <i>Frontiers of Structural and Civil Engineering</i> , 2021, 15, 1097-1110.	2.9	54
17	Experimental study of a novel multi-hazard resistant prefabricated concrete frame structure. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 119, 390-407.	3.8	48
18	Experimental study on the progressive collapse behaviour of RC flat plate substructures subjected to corner column removal scenarios. <i>Engineering Structures</i> , 2019, 180, 728-741.	5.3	47

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19	Seismic damage simulation in urban areas based on a high-fidelity structural model and a physics engine. <i>Natural Hazards</i> , 2014, 71, 1679-1693.	3.4	45
20	A comparative case study on seismic design of tall RC frame-core-tube structures in China and USA. <i>Structural Design of Tall and Special Buildings</i> , 2015, 24, 687-702.	1.9	45
21	Improvement to composite frame systems for seismic and progressive collapse resistance. <i>Engineering Structures</i> , 2019, 186, 227-242.	5.3	44
22	Pedestrian evacuation simulation under the scenario with earthquake-induced falling debris. <i>Safety Science</i> , 2019, 114, 61-71.	4.9	44
23	Development and application of a simplified model for the design of a super-tall mega-braced frame-core tube building. <i>Engineering Structures</i> , 2016, 110, 116-126.	5.3	43
24	Multi-LOD seismic-damage simulation of urban buildings and case study in Beijing CBD. <i>Bulletin of Earthquake Engineering</i> , 2019, 17, 2037-2057.	4.1	43
25	Effects of Seismic and Progressive Collapse Designs on the Vulnerability of RC Frame Structures. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	2.0	41
26	Evaluation of Modal and Traditional Pushover Analyses in Frame-Shear-Wall Structures. <i>Advances in Structural Engineering</i> , 2011, 14, 815-836.	2.4	40
27	An improved ground motion intensity measure for super high-rise buildings. <i>Science China Technological Sciences</i> , 2013, 56, 1525-1533.	4.0	39
28	Progressive Collapse Resistance Demand of RC Frames under Catenary Mechanism. <i>ACI Structural Journal</i> , 2014, 111, .	0.2	38
29	Numerical investigation of progressive collapse resistance of reinforced concrete frames subject to column removals from different stories. <i>Advances in Structural Engineering</i> , 2016, 19, 314-326.	2.4	37
30	Real-Time Seismic Damage Prediction and Comparison of Various Ground Motion Intensity Measures Based on Machine Learning. <i>Journal of Earthquake Engineering</i> , 2022, 26, 4259-4279.	2.5	37
31	Load Transfer and Collapse Resistance of RC Flat Plates under Interior Column Removal Scenario. <i>Journal of Structural Engineering</i> , 2018, 144, .	3.4	36
32	Post-earthquake fire simulation considering overall seismic damage of sprinkler systems based on BIM and FEMA P-58. <i>Automation in Construction</i> , 2018, 90, 9-22.	9.8	34
33	Experimental study on the progressive collapse behaviour of RC flat plate substructures subjected to edge-column and edge-interior-column removal scenarios. <i>Engineering Structures</i> , 2020, 209, 110299.	5.3	34
34	A High-Performance Quadrilateral Flat Shell Element for Seismic Collapse Simulation of Tall Buildings and Its Implementation in OpenSees. <i>Journal of Earthquake Engineering</i> , 2018, 22, 1662-1682.	2.5	33
35	Probability-based progressive collapse-resistant assessment for reinforced concrete frame structures. <i>Advances in Structural Engineering</i> , 2016, 19, 1723-1735.	2.4	31
36	Damage assessment of shear wall components for RC frame“shear wall buildings using story curvature as engineering demand parameter. <i>Engineering Structures</i> , 2019, 189, 77-88.	5.3	31

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37	Progressive Collapse Resistance of Two Typical High-Rise RC Frame Shear Wall Structures. <i>Journal of Performance of Constructed Facilities</i> , 2015, 29, .	2.0	30
38	A Case Study on a Fire-Induced Collapse Accident of a Reinforced Concrete Frame-Supported Masonry Structure. <i>Fire Technology</i> , 2016, 52, 707-729.	3.0	29
39	Comparison and Selection of Ground Motion Intensity Measures for Seismic Design of Super High-Rise Buildings. <i>Advances in Structural Engineering</i> , 2013, 16, 1249-1262.	2.4	27
40	Quantifying the seismic resilience of two tall buildings designed using Chinese and US Codes. <i>Earthquake and Structures</i> , 2016, 11, 925-942.	1.0	27
41	Progressive Collapse Analysis of a Typical Super-Tall Reinforced Concrete Frame-Core Tube Building Exposed to Extreme Fires. <i>Fire Technology</i> , 2017, 53, 107-133.	3.0	26
42	Evaluation of collapse resistance of RC frame structures for Chinese schools in seismic design categories B and C. <i>Earthquake Engineering and Engineering Vibration</i> , 2011, 10, 369-377.	2.3	24
43	An Energy-Based Assessment on Dynamic Amplification Factor for Linear Static Analysis in Progressive Collapse Design of Ductile RC Frame Structures. <i>Advances in Structural Engineering</i> , 2014, 17, 1217-1225.	2.4	24
44	Shaking table model test and FE analysis of a reinforced concrete megaâ€frame structure with tuned mass dampers. <i>Structural Design of Tall and Special Buildings</i> , 2014, 23, 1426-1442.	1.9	23
45	Parametric sensitivity study on regional seismic damage prediction of reinforced masonry buildings based on time-history analysis. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 4791-4820.	4.1	22
46	Influence of horizontal restraints on the behaviour of vertical disproportionate collapse of RC moment frames. <i>Engineering Failure Analysis</i> , 2020, 109, 104324.	4.0	22
47	A computational framework for regional seismic simulation of buildings with multiple fidelity models. <i>Advances in Engineering Software</i> , 2016, 99, 100-110.	3.8	21
48	A novel structural detailing for the improvement of seismic and progressive collapse performances of RC frames. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 1451-1470.	4.4	20
49	Cluster computingâ€aided model updating for a highâ€fidelity finite element model of a longâ€span cableâ€stayed bridge. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 904-923.	4.4	20
50	Experimental and theoretical study of seismic and progressive collapse resilient composite frames. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 139, 106370.	3.8	19
51	Simulation of earthquake-induced hazards of falling exterior non-structural components and its application to emergency shelter design. <i>Natural Hazards</i> , 2016, 80, 935-950.	3.4	16
52	Experimental and Computational Assessments of Progressive Collapse Resistance of Reinforced Concrete Planar Frames Subjected to Penultimate Column Removal Scenario. <i>Journal of Performance of Constructed Facilities</i> , 2020, 34, .	2.0	16
53	Collapse prognosis of a longâ€span cableâ€stayed bridge based on shake table test and nonlinear model updating. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 455-474.	4.4	14
54	Application of earthquake-induced collapse analysis in design optimization of a supertall building. <i>Structural Design of Tall and Special Buildings</i> , 2016, 25, 926-946.	1.9	13

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55	Experimental study and finite element analysis of energy dissipating outriggers. <i>Advances in Structural Engineering</i> , 2017, 20, 1196-1209.	2.4	13
56	Time history analysis-based nonlinear finite element model updating for a long-span cable-stayed bridge. <i>Structural Health Monitoring</i> , 2021, 20, 2566-2584.	7.5	13
57	Hybrid Framework for Simulating Building Collapse and Ruin Scenarios Using Finite Element Method and Physics Engine. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4408.	2.5	13
58	Simulation of Structural Collapse with Coupled Finite Element-Discrete Element Method. , 2009, , 127-135.		12
59	Uniform-risk-targeted seismic design for collapse safety of building structures. <i>Science China Technological Sciences</i> , 2012, 55, 1481-1488.	4.0	12
60	Progressive Collapse Resistance Demand of RC Frames under Catenary Mechanism. <i>ACI Structural Journal</i> , 2014, 111, .	0.2	12
61	Uncertainty analysis on progressive collapse of RC frame structures under dynamic column removal scenarios. <i>Journal of Building Engineering</i> , 2022, 46, 103811.	3.4	12
62	Novel seismicâ€“progressive collapse resilient super-tall building system. <i>Journal of Building Engineering</i> , 2021, 41, 102790.	3.4	10
63	Experimental Study on the Progressive Collapse Resistance of RC Slabs. , 2014, , .		8
64	Influence of Sensor Density on Seismic Damage Assessment: A Case Study for Istanbul. <i>Bulletin of the Seismological Society of America</i> , 2022, 112, 2156-2169.	2.3	6
65	Comparison of seismic performance between typical structural steel buildings designed following the Chinese and United States codes. <i>Advances in Structural Engineering</i> , 0, , 136943322098663.	2.4	4
66	Post-Punching Mechanism of Slab-Column Joints Subjected Upward and Downward Punching Shear Actions. , 2018, , .		3
67	Experimental Study of Novel Concrete Frames Considering Earthquake and Progressive Collapse. , 2019, , 29-45.		3
68	Digital Twin-Based Investigation of a Building Collapse Accident. <i>Advances in Civil Engineering</i> , 2022, 2022, 1-13.	0.7	3
69	GPU-Powered High-Performance Computing for the Analysis of Large-Scale Structures Based on OpenSees. , 2015, , .		2
70	Experimental Study of the Horizontal Progressive Collapse of RC Frames. , 2018, , .		1
71	Pseudo static experimental study on spider-supported glass curtain walls. <i>Glass Structures and Engineering</i> , 2022, 7, 681-691.	1.7	1
72	Regional Seismic Damage Prediction Based on High-Performance GPU Computing: A Case Study of Tsinghua University Campus. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
73	Development of the Design Specification for the Collapse Prevention of Buildings in China. , 2014, , .		0
74	Building Models for City-Scale Nonlinear Time-History Analyses. , 2021, , 451-548.		0
75	Earthquake Disaster Simulation of Typical Supertall Buildings. , 2021, , 99-170.		0
76	Seismic Resilient Outriggers and Multi-hazard Resilient Frames. , 2021, , 309-449.		0
77	High-Fidelity Computational Models for Earthquake Disaster Simulation of Tall Buildings. , 2021, , 9-97.		0
78	Collapse Simulation of Building Structures Induced by Extreme Earthquakes. , 2014, , 381-388.		0
79	Nonlinear Analysis and Collapse Simulation Using Serial Computation. , 2015, , 1-6.		0
80	Nonlinear Analysis and Collapse Simulation Using Serial Computation. , 2015, , 1593-1598.		0