Jian Jiang

List of Publications by Year
in descending order

44 papers	735 citations	516710 16 h-index	552781 26 g-index
44 all docs	44 docs citations	44 times ranked	426 citing authors

#	Article	IF	Citations
1	Modeling of steel frame structures in fire using OpenSees. Computers and Structures, 2013, 118, 90-99.	4.4	60
2	Progressive collapse analysis of 3D steel frames with concrete slabs exposed to localized fire. Engineering Structures, 2017, 149, 21-34.	5.3	58
3	<i>OpenSees</i> Software Architecture for the Analysis of Structures in Fire. Journal of Computing in Civil Engineering, 2015, 29, .	4.7	44
4	Experimental investigation on thermal and mechanical behaviour of composite floors exposed to standard fire. Fire Safety Journal, 2017, 89, 63-76.	3.1	44
5	Disproportionate collapse of 3D steel-framed structures exposed to various compartment fires. Journal of Constructional Steel Research, 2017, 138, 594-607.	3.9	38
6	Fire tests on full-scale steel portal frames against progressive collapse. Journal of Constructional Steel Research, 2018, 145, 137-152.	3.9	38
7	Effect of Bracing Systems on Fire-Induced Progressive Collapse of Steel Structures Using OpenSees. Fire Technology, 2015, 51, 1249-1273.	3.0	37
8	Progressive Collapse Mechanisms of Steel Frames Exposed to Fire. Advances in Structural Engineering, 2014, 17, 381-398.	2.4	35
9	Experimental and numerical study on thermal-structural behavior of steel portal frames in real fires. Fire Safety Journal, 2018, 98, 48-62.	3.1	28
10	Dynamic Effects on Steel Frames with Concrete Slabs under a Sudden Edge-Column Removal Scenario. Journal of Structural Engineering, 2020, 146, .	3.4	26
11	Analytical modeling on collapse resistance of steel beam-concrete slab composite substructures subjected to side column loss. Engineering Structures, 2018, 169, 238-255.	5.3	25
12	Disproportionate collapse of steel-framed gravity buildings under travelling fires. Engineering Structures, 2021, 245, 112799.	5.3	24
13	Modelling of Steel-Concrete Composite Structures in Fire Using OpenSees. Advances in Structural Engineering, 2014, 17, 249-264.	2.4	21
14	Parameters affecting tensile membrane action of reinforced concrete floors subjected to elevated temperatures. Fire Safety Journal, 2018, 96, 59-73.	3.1	21
15	The application of omics-based human liver platforms for investigating the mechanism of drug-induced hepatotoxicity in vitro. Archives of Toxicology, 2019, 93, 3067-3098.	4.2	21
16	Modelling concrete slabs subjected to fires using nonlinear layered shell elements and concrete damage-plasticity material. Engineering Structures, 2021, 234, 111977.	5.3	21
17	Gene signatures from scRNAâ€seq accurately quantify mast cells in biopsies in asthma. Clinical and Experimental Allergy, 2020, 50, 1428-1431.	2.9	16
18	Quantitative evaluation of progressive collapse process of steel portal frames in fire. Journal of Constructional Steel Research, 2018, 150, 277-287.	3.9	15

#	ARTICLE	IF	CITATIONS
19	Improved calculation method for insulation-based fire resistance of composite slabs. Fire Safety Journal, 2019, 105, 144-153.	3.1	15
20	Biodegradation-induced surface change of polymer microspheres and its influence on cell growth. Polymer Degradation and Stability, 2010, 95, 1356-1364.	5.8	14
21	Mechanical behavior of cross-shaped steel reinforced concrete columns after exposure to high temperatures. Fire Safety Journal, 2019, 108, 102857.	3.1	13
22	Fire safety assessment of super tall buildings: A case study on Shanghai Tower. Case Studies in Fire Safety, 2015, 4, 28-38.	1.0	12
23	Vibration control of cables with damped flexible end restraint: Theoretical model and experimental verification. Journal of Sound and Vibration, 2013, 332, 3626-3645.	3.9	11
24	An improved consecutive modal pushover procedure for estimating seismic demands of multi-storey framed buildings. Structural Design of Tall and Special Buildings, 2017, 26, e1336.	1.9	9
25	Seismic behavior of coupled shear wall structures with various concrete and steel coupling beams. Structural Design of Tall and Special Buildings, 2018, 27, e1405.	1.9	9
26	Influence of fire scenarios on progressive collapse mechanisms of steel framed structures. Steel Construction, 2014, 7, 169-172.	0.8	8
27	Reduced-Order Modeling of Composite Floor Slabs in Fire. I: Heat-Transfer Analysis. Journal of Structural Engineering, 2020, 146, .	3.4	8
28	Reduced-Order Modeling of Composite Floor Slabs in Fire. II: Thermal-Structural Analysis. Journal of Structural Engineering, 2020, 146, .	3.4	7
29	Investigation on Postfire Residual Capacity of High-Strength Steel Columns with Axial Restraint. Journal of Structural Engineering, 2020, 146, .	3.4	6
30	Experimental study on the dynamic behaviour of expanded-shale lightweight concrete at high strain rate. Materials and Structures/Materiaux Et Constructions, 2022, 55, 1.	3.1	6
31	Analysis of Composite Steel-concrete Beams Exposed to Fire using OpenSees. Journal of Structural Fire Engineering, 2015, 6, 1-20.	0.8	5
32	Modeling structural behavior of reinforced concrete beam–slab substructures subject to side-column loss at large deflections. Advances in Structural Engineering, 2018, 21, 1051-1071.	2.4	5
33	Improved tensile membrane action model of composite slabs at elevated temperatures. Structures, 2022, 36, 13-31.	3.6	5
34	Progressive Collapse Resistance of Braced Steel Frames Exposed to Fire. , 2014, , .		4
35	Mitigating Inter-Story Drift Concentration of Concentrically Braced Steel Frames Using Energy-Dissipative Columns. Journal of Earthquake Engineering, 2022, 26, 221-239.	2.5	4
36	Modeling of Behavior of Continuous Energy-Dissipative Steel Columns Under Cyclic Loads. Journal of Earthquake Engineering, 2019, 23, 1560-1583.	2.5	4

#	Article	IF	Citations
37	An insight into eurocode 4 design rules for thermal behaviour of composite slabs. Fire Safety Journal, 2021, 120, 103084.	3.1	4
38	Experimental study on reinforced concrete frames with two-side connected buckling-restrained steel plate shear walls. Advances in Structural Engineering, 2018, 21, 460-473.	2.4	3
39	Cyclic behaviour of bearing-type bolted connections with slot bolt holes. Advances in Structural Engineering, 2019, 22, 792-801.	2.4	3
40	Residual Strength of L-shaped Steel Reinforced Concrete Columns after Exposure to High Temperatures. KSCE Journal of Civil Engineering, 2021, 25, 1369-1384.	1.9	3
41	Theoretical investigations on load–bearing capacity of RC flat–plate framed structures subject to middle column loss. Structural Design of Tall and Special Buildings, 2018, 27, e1458.	1.9	2
42	Collapse resistance of RC beam–slab subassemblies due to column loss at large deflections. Magazine of Concrete Research, 2019, 71, 647-663.	2.0	2
43	A state-of-the-art review on tensile membrane action in reinforced concrete floors exposed to fire. Journal of Building Engineering, 2022, 45, 103502.	3.4	1
44	Elevated temperature and hole-type effects on sliding behaviour of bolted connections. Advances in Structural Engineering, 2017, 20, 1962-1970.	2.4	0