Tian-Yu

List of Publications by Year
in descending order

71 papers	1,449 citations	304743 22 h-index	330143 37 g-index
72 all docs	72 docs citations	72 times ranked	613 citing authors

#	Article	IF	Citations
1	Experimental and numerical study on the behavior of axially compressed high strength steel box-columns. Engineering Structures, 2014, 58, 79-91.	5.3	104
2	The assessment of residual stresses in welded high strength steel box sections. Journal of Constructional Steel Research, 2012, 76, 93-99.	3.9	84
3	Experimental and numerical study on the behavior of axially compressed high strength steel columns with H-section. Engineering Structures, 2012, 43, 149-159.	5.3	83
4	Behavior of Q690 high-strength steel columns: Part 1: Experimental investigation. Journal of Constructional Steel Research, 2016, 123, 18-30.	3.9	73
5	Residual stress tests of welded Q690 high-strength steel box- and H-sections. Journal of Constructional Steel Research, 2015, 115, 283-289.	3.9	68
6	Residual stresses in welded flame-cut high strength steel H-sections. Journal of Constructional Steel Research, 2012, 79, 159-165.	3.9	67
7	Experimental cyclic behavior and constitutive modeling of high strength structural steels. Construction and Building Materials, 2018, 189, 1264-1285.	7.2	59
8	Structural behaviour of slender columns of high strength S690 steel welded H-sections under compression. Engineering Structures, 2018, 157, 75-85.	5.3	56
9	Experimental investigation into high strength Q690 steel welded H-sections under combined compression and bending. Journal of Constructional Steel Research, 2017, 138, 449-462.	3.9	51
10	Experimental Studies on Progressive Collapse Resistance of Steel Moment Frames under Localized Furnace Loading. Journal of Structural Engineering, 2018, 144, .	3.4	47
11	*OpenSees* Software Architecture for the Analysis of Structures in Fire. Journal of Computing in Civil Engineering, 2015, 29, .	4.7	44
12	Progressive collapse mechanisms investigation of planar steel moment frames under localized fire. Journal of Constructional Steel Research, 2015, 115, 160-168.	3.9	43
13	Simulations on progressive collapse resistance of steel moment frames under localized fire. Journal of Constructional Steel Research, 2017, 138, 380-388.	3.9	42
14	High Temperature Mechanical Properties of High Strength Structural Steels Q550, Q690 and Q890. Fire Technology, 2018, 54, 1609-1628.	3.0	40
15	Effect of Bracing Systems on Fire-Induced Progressive Collapse of Steel Structures Using OpenSees. Fire Technology, 2015, 51, 1249-1273.	3.0	37
16	Testing of semi-rigid steel–concrete composite frames subjected to vertical loads. Engineering Structures, 2007, 29, 1903-1916.	5.3	36
17	Progressive Collapse Mechanisms of Steel Frames Exposed to Fire. Advances in Structural Engineering, 2014, 17, 381-398.	2.4	35
18	Experimental investigation on cyclic behavior of Q690D high strength steel H-section beam-columns about strong axis. Engineering Structures, 2019, 189, 157-173.	5.3	33

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19	Behavior of Unrestrained and Restrained Bare Steel Columns Subjected to Localized Fire. Journal of Structural Engineering, 2015, 141, .	3.4	30
20	Dynamic Effects on Steel Frames with Concrete Slabs under a Sudden Edge-Column Removal Scenario. Journal of Structural Engineering, 2020, 146, .	3.4	26
21	Numerical investigation into high strength Q690 steel columns of welded H-sections under combined compression and bending. Journal of Constructional Steel Research, 2018, 144, 119-134.	3.9	25
22	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
23	Sensitivity Study on Using Different Formulae for Calculating the Temperature of Insulated Steel Members in Natural Fires. Fire Technology, 2012, 48, 343-366.	3.0	21
24	Modelling of Steel-Concrete Composite Structures in Fire Using OpenSees. Advances in Structural Engineering, 2014, 17, 249-264.	2.4	21
25	Field measurements and analyses of environmental vibrations induced by high-speed Maglev. Science of the Total Environment, 2016, 568, 1295-1307.	8.0	20
26	Evaluation and prediction of cyclic response of Q690D steel. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 788-803.	0.8	18
27	Collapse resistance of steel beam-concrete slab composite substructures subjected to middle column loss. Journal of Constructional Steel Research, 2018, 145, 471-488.	3.9	18
28	Development of New-Type Buckling-Restrained Braces and Their Application in Aseismic Steel Frameworks. Advances in Structural Engineering, 2011, 14, 717-730.	2.4	17
29	Development of Pressure-Impulse Diagrams for Framed PVB-Laminated Glass Windows. Journal of Structural Engineering, 2019, 145, .	3.4	16
30	A New Method to Analyze the Membrane Action of Composite Floor Slabs in Fire Condition. Fire Technology, 2010, 46, 3-18.	3.0	15
31	Behavior of Steelâ€"Concrete Partially Composite Beams Subjected to Fireâ€"Part 1: Experimental Study. Fire Technology, 2017, 53, 1039-1058.	3.0	15
32	Column effective lengths in sway-permitted modular steel-frame buildings. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2019, 172, 30-41.	0.8	15
33	A simplified approach for collapse assessment of multi-Storey steel framed-structures with one column loss. Journal of Constructional Steel Research, 2021, 176, 106391.	3.9	14
34	Performance and design of shear connectors in composite beams with parallel profiled sheeting at elevated temperatures. International Journal of Steel Structures, 2016, 16, 217-229.	1.3	11
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Influence of fire scenarios on progressive collapse mechanisms of steel framed structures. Steel Construction, 2014, 7, 169-172.	0.8	8
38	Blast test and numerical simulation of point-supported glazing. Advances in Structural Engineering, 2016, 19, 1841-1854.	2.4	8
39	Experimental comparative study of coupled shear wall systems with steel and reinforced concrete link beams. Structural Design of Tall and Special Buildings, 2019, 28, e1678.	1.9	8
40	Buckling analysis of tapered lattice columns using a generalized finite element. Communications in Numerical Methods in Engineering, 2004, 20, 479-488.	1.3	7
41	Experimental study on the bend and shear behaviors of steel-concrete composite beams with notched web of inverted T-shaped steel section. International Journal of Steel Structures, 2012, 12, 391-401.	1.3	7
42	Residual Strength of Organic Anchorage Adhesive for Post-installed Rebar at Elevated Temperatures and After Heating. Fire Technology, 2016, 52, 877-895.	3.0	7
43	Behaviour and design of composite beams with composite slabs at elevated temperatures. Advances in Structural Engineering, 2017, 20, 1451-1465.	2.4	7
44	Catenary action of restrained steel beam against progressive collapse of steel frameworks. Journal of Central South University, 2012, 19, 537-546.	3.0	6
45	Damage mechanisms in cementitious coatings on steel members in bending. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2015, 168, 351-369.	0.8	6
46	Investigation on Postfire Residual Capacity of High-Strength Steel Columns with Axial Restraint. Journal of Structural Engineering, 2020, 146, .	3.4	6
47	Q460C welded box-section columns under eccentric compression. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2018, 171, 611-624.	0.8	5
48	Modeling structural behavior of reinforced concrete beamâ€"slab substructures subject to side-column loss at large deflections. Advances in Structural Engineering, 2018, 21, 1051-1071.	2.4	5
49	Experimental investigation of two-bolt connections for high strength steel members. , 0, , .		5
50	An approach for evaluating fire resistance of high strength Q460 steel columns. Frontiers of Structural and Civil Engineering, 2014, 8, 26-35.	2.9	4
51	Experimental Study on Behavior of Steel Tube Dampers. Journal of Earthquake Engineering, 2019, , 1-21.	2.5	4
52	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
53	Modeling of Behavior of Continuous Energy-Dissipative Steel Columns Under Cyclic Loads. Journal of Earthquake Engineering, 2019, 23, 1560-1583.	2.5	4
54	The internal force relationship of rectangular and I-section for bi-linear hardening material with limit strain. International Journal of Steel Structures, 2016, 16, 243-255.	1.3	3

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55	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
56	Cyclic behaviour of bearing-type bolted connections with slot bolt holes. Advances in Structural Engineering, 2019, 22, 792-801.	2.4	3
57	Local buckling and hysteretic behavior of thin-walled Q690 high-strength steel H-section beam-columns. Engineering Structures, 2022, 252, 113729.	5.3	3
58	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
59	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
60	Ductile Fracture in ASTM A992 Steel Tensile Specimens at Elevated Temperatures. Fire Technology, 2022, 58, 1417-1443.	3.0	2
61	Investigation on Behavior of Glazing System with Elastomeric Interlayers under Blast Effects. Advances in Structural Engineering, 2015, 18, 1915-1930.	2.4	1
62	Orthogonal analysis and optimization of a K4-rating auto-lifting anti-ram bollard system. International Journal of Steel Structures, 2016, 16, 267-277.	1.3	1
63	12.04: Experimental and numerical investigation on the Q690 high strength steel slender columns of welded H-sections under compression. Ce/Papers, 2017, 1, 3491-3500.	0.3	1
64	Bearing capacity of H-beams with corrugated webs under partial compressive loading. , 2011, , .		0
65	Elevated temperature and hole-type effects on sliding behaviour of bolted connections. Advances in Structural Engineering, 2017, 20, 1962-1970.	2.4	0
66	01.08: Bolted bearing connection with high strength steel and grade 12.9 bolt. Ce/Papers, 2017, 1, 225-233.	0.3	0
67	10.32: Experimental study on high temperature elastic modulus of China made high strength structural steel. Ce/Papers, 2017, 1, 2790-2796.	0.3	0
68	Collapse resistance of steel frames with concrete slabs due to penultimate-side column loss. Advances in Structural Engineering, 2020, 23, 1473-1486.	2.4	0
69	Uniform material model for constructional steel. , 2021, , 93-151.		0
70	Behavior and design of high-strength steel columns under combined compression and bending. , 2021, , 305-355.		0
71	Investigation on the Performance of Partial Penetration Welds in Multicell Concrete Filled Steel Tubes. Materials, 2021, 14, 7543.	2.9	0