

# Tian-Yu

## List of Publications by Year in descending order

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Version: 2024-02-01

71  
papers

1,449  
citations

304368

22  
h-index

329751

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. <i>Engineering Structures</i> , 2014, 58, 79-91.	2.6	104
2	The assessment of residual stresses in welded high strength steel box sections. <i>Journal of Constructional Steel Research</i> , 2012, 76, 93-99.	1.7	84
3	Experimental and numerical study on the behavior of axially compressed high strength steel columns with H-section. <i>Engineering Structures</i> , 2012, 43, 149-159.	2.6	83
4	Behavior of Q690 high-strength steel columns: Part 1: Experimental investigation. <i>Journal of Constructional Steel Research</i> , 2016, 123, 18-30.	1.7	73
5	Residual stress tests of welded Q690 high-strength steel box- and H-sections. <i>Journal of Constructional Steel Research</i> , 2015, 115, 283-289.	1.7	68
6	Residual stresses in welded flame-cut high strength steel H-sections. <i>Journal of Constructional Steel Research</i> , 2012, 79, 159-165.	1.7	67
7	Experimental cyclic behavior and constitutive modeling of high strength structural steels. <i>Construction and Building Materials</i> , 2018, 189, 1264-1285.	3.2	59
8	Structural behaviour of slender columns of high strength S690 steel welded H-sections under compression. <i>Engineering Structures</i> , 2018, 157, 75-85.	2.6	56
9	Experimental investigation into high strength Q690 steel welded H-sections under combined compression and bending. <i>Journal of Constructional Steel Research</i> , 2017, 138, 449-462.	1.7	51
10	Experimental Studies on Progressive Collapse Resistance of Steel Moment Frames under Localized Furnace Loading. <i>Journal of Structural Engineering</i> , 2018, 144, .	1.7	47
11	<i>OpenSees</i> Software Architecture for the Analysis of Structures in Fire. <i>Journal of Computing in Civil Engineering</i> , 2015, 29, .	2.5	44
12	Progressive collapse mechanisms investigation of planar steel moment frames under localized fire. <i>Journal of Constructional Steel Research</i> , 2015, 115, 160-168.	1.7	43
13	Simulations on progressive collapse resistance of steel moment frames under localized fire. <i>Journal of Constructional Steel Research</i> , 2017, 138, 380-388.	1.7	42
14	High Temperature Mechanical Properties of High Strength Structural Steels Q550, Q690 and Q890. <i>Fire Technology</i> , 2018, 54, 1609-1628.	1.5	40
15	Effect of Bracing Systems on Fire-Induced Progressive Collapse of Steel Structures Using OpenSees. <i>Fire Technology</i> , 2015, 51, 1249-1273.	1.5	37
16	Testing of semi-rigid steel-concrete composite frames subjected to vertical loads. <i>Engineering Structures</i> , 2007, 29, 1903-1916.	2.6	36
17	Progressive Collapse Mechanisms of Steel Frames Exposed to Fire. <i>Advances in Structural Engineering</i> , 2014, 17, 381-398.	1.2	35
18	Experimental investigation on cyclic behavior of Q690D high strength steel H-section beam-columns about strong axis. <i>Engineering Structures</i> , 2019, 189, 157-173.	2.6	33

#	ARTICLE	IF	CITATIONS
19	Behavior of Unrestrained and Restrained Bare Steel Columns Subjected to Localized Fire. <i>Journal of Structural Engineering</i> , 2015, 141, .	1.7	30
20	Dynamic Effects on Steel Frames with Concrete Slabs under a Sudden Edge-Column Removal Scenario. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	26
21	Numerical investigation into high strength Q690 steel columns of welded H-sections under combined compression and bending. <i>Journal of Constructional Steel Research</i> , 2018, 144, 119-134.	1.7	25
22	Analytical modeling on collapse resistance of steel beam-concrete slab composite substructures subjected to side column loss. <i>Engineering Structures</i> , 2018, 169, 238-255.	2.6	25
23	Sensitivity Study on Using Different Formulae for Calculating the Temperature of Insulated Steel Members in Natural Fires. <i>Fire Technology</i> , 2012, 48, 343-366.	1.5	21
24	Modelling of Steel-Concrete Composite Structures in Fire Using OpenSees. <i>Advances in Structural Engineering</i> , 2014, 17, 249-264.	1.2	21
25	Field measurements and analyses of environmental vibrations induced by high-speed Maglev. <i>Science of the Total Environment</i> , 2016, 568, 1295-1307.	3.9	20
26	Evaluation and prediction of cyclic response of Q690D steel. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2017, 170, 788-803.	0.4	18
27	Collapse resistance of steel beam-concrete slab composite substructures subjected to middle column loss. <i>Journal of Constructional Steel Research</i> , 2018, 145, 471-488.	1.7	18
28	Development of New-Type Buckling-Restrained Braces and Their Application in Aseismic Steel Frameworks. <i>Advances in Structural Engineering</i> , 2011, 14, 717-730.	1.2	17
29	Development of Pressure-Impulse Diagrams for Framed PVB-Laminated Glass Windows. <i>Journal of Structural Engineering</i> , 2019, 145, .	1.7	16
30	A New Method to Analyze the Membrane Action of Composite Floor Slabs in Fire Condition. <i>Fire Technology</i> , 2010, 46, 3-18.	1.5	15
31	Behavior of Steel-Concrete Partially Composite Beams Subjected to Fire”Part 1: Experimental Study. <i>Fire Technology</i> , 2017, 53, 1039-1058.	1.5	15
32	Column effective lengths in sway-permitted modular steel-frame buildings. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2019, 172, 30-41.	0.4	15
33	A simplified approach for collapse assessment of multi-Storey steel framed-structures with one column loss. <i>Journal of Constructional Steel Research</i> , 2021, 176, 106391.	1.7	14
34	Performance and design of shear connectors in composite beams with parallel profiled sheeting at elevated temperatures. <i>International Journal of Steel Structures</i> , 2016, 16, 217-229.	0.6	11
35	An improved consecutive modal pushover procedure for estimating seismic demands of multi-storey framed buildings. <i>Structural Design of Tall and Special Buildings</i> , 2017, 26, e1336.	0.9	9
36	Seismic behavior of coupled shear wall structures with various concrete and steel coupling beams. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1405.	0.9	9

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37	Influence of fire scenarios on progressive collapse mechanisms of steel framed structures. <i>Steel Construction</i> , 2014, 7, 169-172.	0.4	8
38	Blast test and numerical simulation of point-supported glazing. <i>Advances in Structural Engineering</i> , 2016, 19, 1841-1854.	1.2	8
39	Experimental comparative study of coupled shear wall systems with steel and reinforced concrete link beams. <i>Structural Design of Tall and Special Buildings</i> , 2019, 28, e1678.	0.9	8
40	Buckling analysis of tapered lattice columns using a generalized finite element. <i>Communications in Numerical Methods in Engineering</i> , 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. <i>International Journal of Steel Structures</i> , 2012, 12, 391-401.	0.6	7
42	Residual Strength of Organic Anchorage Adhesive for Post-installed Rebar at Elevated Temperatures and After Heating. <i>Fire Technology</i> , 2016, 52, 877-895.	1.5	7
43	Behaviour and design of composite beams with composite slabs at elevated temperatures. <i>Advances in Structural Engineering</i> , 2017, 20, 1451-1465.	1.2	7
44	Catenary action of restrained steel beam against progressive collapse of steel frameworks. <i>Journal of Central South University</i> , 2012, 19, 537-546.	1.2	6
45	Damage mechanisms in cementitious coatings on steel members in bending. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2015, 168, 351-369.	0.4	6
46	Investigation on Postfire Residual Capacity of High-Strength Steel Columns with Axial Restraint. <i>Journal of Structural Engineering</i> , 2020, 146, .	1.7	6
47	Q460C welded box-section columns under eccentric compression. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2018, 171, 611-624.	0.4	5
48	Modeling structural behavior of reinforced concrete beam-slab substructures subject to side-column loss at large deflections. <i>Advances in Structural Engineering</i> , 2018, 21, 1051-1071.	1.2	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. <i>Frontiers of Structural and Civil Engineering</i> , 2014, 8, 26-35.	1.2	4
51	Experimental Study on Behavior of Steel Tube Dampers. <i>Journal of Earthquake Engineering</i> , 2019, , 1-21.	1.4	4
52	Mitigating Inter-Story Drift Concentration of Concentrically Braced Steel Frames Using Energy-Dissipative Columns. <i>Journal of Earthquake Engineering</i> , 2022, 26, 221-239.	1.4	4
53	Modeling of Behavior of Continuous Energy-Dissipative Steel Columns Under Cyclic Loads. <i>Journal of Earthquake Engineering</i> , 2019, 23, 1560-1583.	1.4	4
54	The internal force relationship of rectangular and I-section for bi-linear hardening material with limit strain. <i>International Journal of Steel Structures</i> , 2016, 16, 243-255.	0.6	3

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55	Experimental study on reinforced concrete frames with two-side connected buckling-restrained steel plate shear walls. <i>Advances in Structural Engineering</i> , 2018, 21, 460-473.	1.2	3
56	Cyclic behaviour of bearing-type bolted connections with slot bolt holes. <i>Advances in Structural Engineering</i> , 2019, 22, 792-801.	1.2	3
57	Local buckling and hysteretic behavior of thin-walled Q690 high-strength steel H-section beam-columns. <i>Engineering Structures</i> , 2022, 252, 113729.	2.6	3
58	Theoretical investigations on load-bearing capacity of RC flat-plate framed structures subject to middle column loss. <i>Structural Design of Tall and Special Buildings</i> , 2018, 27, e1458.	0.9	2
59	Collapse resistance of RC beam-slab subassemblies due to column loss at large deflections. <i>Magazine of Concrete Research</i> , 2019, 71, 647-663.	0.9	2
60	Ductile Fracture in ASTM A992 Steel Tensile Specimens at Elevated Temperatures. <i>Fire Technology</i> , 2022, 58, 1417-1443.	1.5	2
61	Investigation on Behavior of Glazing System with Elastomeric Interlayers under Blast Effects. <i>Advances in Structural Engineering</i> , 2015, 18, 1915-1930.	1.2	1
62	Orthogonal analysis and optimization of a K4-rating auto-lifting anti-ram bollard system. <i>International Journal of Steel Structures</i> , 2016, 16, 267-277.	0.6	1
63	12.04: Experimental and numerical investigation on the Q690 high strength steel slender columns of welded H-sections under compression. <i>Ce/Papers</i> , 2017, 1, 3491-3500.	0.1	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. <i>Advances in Structural Engineering</i> , 2017, 20, 1962-1970.	1.2	0
66	01.08: Bolted bearing connection with high strength steel and grade 12.9 bolt. <i>Ce/Papers</i> , 2017, 1, 225-233.	0.1	0
67	10.32: Experimental study on high temperature elastic modulus of China made high strength structural steel. <i>Ce/Papers</i> , 2017, 1, 2790-2796.	0.1	0
68	Collapse resistance of steel frames with concrete slabs due to penultimate-side column loss. <i>Advances in Structural Engineering</i> , 2020, 23, 1473-1486.	1.2	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. <i>Materials</i> , 2021, 14, 7543.	1.3	0