Tak-Ming Chan

List of Publications by Year
in descending order

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		126708	168136
104	3,401	33	53
papers	citations	h-index	g-index

113	113	113	1001
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Compressive resistance of hot-rolled elliptical hollow sections. Engineering Structures, 2008, 30, 522-532.	2.6	167
2	Material properties and residual stresses of cold-formed high strength steel hollow sections. Journal of Constructional Steel Research, 2015, 109, 152-165.	1.7	151
3	Structural response of stainless steel oval hollow section compression members. Engineering Structures, 2009, 31, 922-934.	2.6	134
4	Experimental Investigation on Stub-Column Behavior of Cold-Formed High-Strength Steel Tubular Sections. Journal of Structural Engineering, 2016, 142, .	1.7	133
5	Bending strength of hot-rolled elliptical hollow sections. Journal of Constructional Steel Research, 2008, 64, 971-986.	1.7	124
6	A study of hybrid self-centring connections equipped with shape memory alloy washers and bolts. Engineering Structures, 2018, 164, 155-168.	2.6	89
7	Structural response of concrete-filled elliptical steel hollow sections under eccentric compression. Engineering Structures, 2012, 45, 314-323.	2.6	84
8	Flexural Buckling of Elliptical Hollow Section Columns. Journal of Structural Engineering, 2009, 135, 546-557.	1.7	77
9	Civil and structural engineering applications, recent trends, research and developments on pultruded fiber reinforced polymer closed sections: a review. Frontiers of Structural and Civil Engineering, 2013, 7, 227-244.	1.2	70
10	Experimental investigation on lightweight concrete-filled cold-formed elliptical hollow section stub columns. Journal of Constructional Steel Research, 2015, 115, 434-444.	1.7	70
11	Structural design of elliptical hollow sections: a review. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2010, 163, 391-402.	0.4	67
12	Flexural behaviour of stainless steel oval hollow sections. Thin-Walled Structures, 2009, 47, 776-787.	2.7	64
13	Numerical investigation on the performance of concrete-filled double-skin steel tubular members under tension. Thin-Walled Structures, 2014, 79, 108-118.	2.7	64
14	Experimental investigation of cold-formed high strength steel tubular beams. Engineering Structures, 2016, 126, 200-209.	2.6	64
15	Experimental investigation on octagonal concrete filled steel stub columns under uniaxial compression. Journal of Constructional Steel Research, 2018, 147, 457-467.	1.7	63
16	Cyclic behavior of connections equipped with NiTi shape memory alloy and steel tendons between H-shaped beam to CHS column. Engineering Structures, 2015, 88, 37-50.	2.6	60
17	Tensile behaviour of concrete-filled double-skin steel tubular members. Journal of Constructional Steel Research, 2014, 99, 35-46.	1.7	59
18	Behaviour of concrete-filled cold-formed elliptical hollow sections with varying aspect ratios. Thin-Walled Structures, 2017, 110, 47-61.	2.7	59

#	Article	IF	Citations
19	The continuous strength method for the design of high strength steel tubular sections in compression. Engineering Structures, 2018, 162, 177-187.	2.6	54
20	Material properties and residual stresses of octagonal high strength steel hollow sections. Journal of Constructional Steel Research, 2018, 148, 479-490.	1.7	54
21	Seismic performance of beamâ€“column joints with SMA tendons strengthened by steel angles. Journal of Constructional Steel Research, 2015, 109, 61-71.	1.7	52
22	Cross-section classification for cold-formed and built-up high strength carbon and stainless steel tubes under compression. Journal of Constructional Steel Research, 2015, 106, 289-295.	1.7	51
23	Design of cold-formed high strength steel tubular beams. Engineering Structures, 2017, 151, 432-443.	2.6	51
24	Design of Cold-Formed High-Strength Steel Tubular Stub Columns. Journal of Structural Engineering, 2018, 144, .	1.7	49
25	Detailing of I-beam-to-CHS column joints with external diaphragm plates for seismic actions. Journal of Constructional Steel Research, 2013, 88, 21-33.	1.7	45
26	Experimental study on column buckling of 420 MPa high strength steel welded circular tubes. Journal of Constructional Steel Research, 2014, 100, 71-81.	1.7	42
27	Cross-sectional capacity of octagonal tubular steel stub columns under uniaxial compression. Engineering Structures, 2019, 184, 480-494.	2.6	42
28	Influence of boundary conditions and geometric imperfections on lateralâ€“torsional buckling resistance of a pultruded FRP I-beam by FEA. Composite Structures, 2013, 100, 233-242.	3.1	39
29	Behaviours of concrete-filled cold-formed elliptical hollow section beam-columns with varying aspect ratios. Thin-Walled Structures, 2017, 120, 9-28.	2.7	39
30	Structural performance of cold-formed high strength steel tubular columns. Engineering Structures, 2018, 177, 473-488.	2.6	39
31	Flexural buckling of welded austenitic and duplex stainless steel I-section columns. Journal of Constructional Steel Research, 2016, 122, 339-353.	1.7	38
32	Experimental investigation and modeling on residual stress of welded steel circular tubes. International Journal of Steel Structures, 2013, 13, 495-508.	0.6	37
33	Behavior of Octagonal High-Strength Steel Tubular Stub Columns. Journal of Structural Engineering, 2019, 145, .	1.7	33
34	Shear response of elliptical hollow sections. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2008, 161, 301-309.	0.4	32
35	Experimental and numerical investigation on full-scale tension-only concentrically braced steel beam-through frames. Journal of Constructional Steel Research, 2013, 80, 369-385.	1.7	32
36	Tests on high-strength steel hollow sections: a review. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 621-630.	0.4	32

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37	Axial compressive strength of welded S460 steel columns at elevated temperatures. Thin-Walled Structures, 2018, 129, 213-224.	2.7	31
38	Cold-formed high strength steel tubular beam-columns. Engineering Structures, 2021, 230, 111618.	2.6	31
39	The continuous strength method for the design of high strength steel tubular sections in bending. Journal of Constructional Steel Research, 2019, 160, 499-509.	1.7	30
40	Performance of Concrete-Filled Steel Tubes subjected to Eccentric Tension. Journal of Structural Engineering, 2015, 141, .	1.7	29
41	Behaviour of polygonal-shaped steel-tube columns filled with high-strength concrete. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2018, 171, 96-112.	0.4	28
42	Stub Column Behavior of Cold-Formed High-Strength Steel Circular Hollow Sections under Compression. Journal of Structural Engineering, 2020, 146, .	1.7	28
43	Structural performance of concrete-filled cold-formed high-strength steel octagonal tubular stub columns. Engineering Structures, 2021, 239, 112360.	2.6	27
44	Lateral-torsional buckling resistance by testing for pultruded FRP beams under different loading and displacement boundary conditions. Composites Part B: Engineering, 2014, 60, 306-318.	5.9	26
45	Structural behaviour and design of chord plastification in high strength steel CHS X-joints. Construction and Building Materials, 2018, 191, 1252-1267.	3.2	26
46	Structural behaviour and design of high strength steel RHS X-joints. Engineering Structures, 2019, 200, 109494.	2.6	25
47	Experimental investigation on steel-tube-confined-concrete stub column with different cross-section shapes under uniaxial-compression. Journal of Constructional Steel Research, 2019, 162, 105729.	1.7	24
48	Static strength of stainless steel K- and N-joints at elevated temperatures. Thin-Walled Structures, 2018, 122, 501-509.	2.7	23
49	Buckling resistance of welded high-strength-steel box-section members under combined compression and bending. Journal of Constructional Steel Research, 2019, 162, 105711.	1.7	23
50	Cold-Formed High-Strength Steel Rectangular and Square Hollow Sections under Combined Compression and Bending. Journal of Structural Engineering, 2019, 145, .	1.7	23
51	Recent research advances of high strength steel welded hollow section joints. Structures, 2019, 17, 58-65.	1.7	23
52	Tensile behaviour of headed anchored hollo-bolts in concrete filled hollow steel tube connections. Engineering Structures, 2021, 234, 111982.	2.6	23
53	Static strength of high strength steel CHS X-joints under axial compression. Journal of Constructional Steel Research, 2017, 138, 369-379.	1.7	22
54	Experimental assessment of the cyclic behaviour of concrete-filled steel tubular beam-columns with octagonal sections. Engineering Structures, 2019, 180, 544-560.	2.6	22

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55	Experimental and numerical investigation on stub column behaviour of cold-formed octagonal hollow sections. Engineering Structures, 2020, 214, 110669.	2.6	22
56	Resistance of Axially Loaded Hot-finished S460 and S690 Steel Square Hollow Stub Columns at Elevated Temperatures. Structures, 2019, 17, 66-73.	1.7	21
57	Prediction of ductile fracture for circular hollow section bracing members under extremely low cycle fatigue. Engineering Structures, 2020, 214, 110579.	2.6	21
58	Design for local buckling behaviour of welded high strength steel I-sections under bending. Thin-Walled Structures, 2022, 172, 108792.	2.7	21
59	FE modelling of replaceable I-beam-to-CHS column joints under cyclic loads. Journal of Constructional Steel Research, 2017, 138, 221-234.	1.7	20
60	Numerical investigation on compressive performance of CFST columns with encased built-up lattice-angles. Journal of Constructional Steel Research, 2017, 137, 242-253.	1.7	20
61	Mechanical behaviour of concrete-filled CHS connections subjected to in-plane bending. Engineering Structures, 2017, 148, 101-112.	2.6	20
62	Experimental and Numerical Investigations of Octagonal High-Strength Steel Tubular Stub Columns under Combined Compression and Bending. Journal of Structural Engineering, 2021, 147, .	1.7	20
63	Cyclic response of hollow and concrete-filled circular hollow section braces. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2014, 167, 140-152.	0.4	19
64	Cyclic stress-strain behavior of structural steel with yieldstrength up to 460 N/mm2. Frontiers of Structural and Civil Engineering, 2014, 8, 178-186.	1.2	19
65	Design of square and rectangular CFST cross-sectional capacities in compression. Journal of Constructional Steel Research, 2021, 176, 106419.	1.7	19
66	A comprehensive numerical approach for modelling blind-bolted CFST connections. Structures, 2021, 33, 2208-2225.	1.7	19
67	Material properties and residual stresses of high strength steel hexagonal hollow sections. Journal of Constructional Steel Research, 2022, 190, 107061.	1.7	19
68	Testing, numerical modelling and design of Q690 high strength steel welded T-section stub columns. Engineering Structures, 2022, 259, 114142.	2.6	18
69	Effect of Loading Protocols on the Hysteresis Behaviour of Hot-Rolled Structural Steel with Yield Strength up to 420 MPa. Advances in Structural Engineering, 2013, 16, 707-719.	1.2	16
70	Numerical analysis and punching shear fracture based design of longitudinal plate to concrete-filled CHS connections. Construction and Building Materials, 2017, 156, 91-106.	3.2	16
71	Experimental study on the behaviour and strength of high strength steel CHS T- and X-joints. Engineering Structures, 2020, 206, 110182.	2.6	16
72	Analytical model for circular high strength concrete filled steel tubes under compression. Engineering Structures, 2021, 244, 112720.	2.6	15

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73	Lateralâ€“Torsional Buckling design for pultruded FRP beams. Composite Structures, 2015, 133, 782-793.	3.1	14
74	Design of fixed-ended octagonal shaped steel hollow sections in compression. Engineering Structures, 2021, 228, 111520.	2.6	14
75	Direct analysis of high-strength concrete-filled-tubular columns with circular & octagonal sections. Journal of Constructional Steel Research, 2017, 129, 301-314.	1.7	13
76	Compressive behaviour and design of compact to slender octagonal concrete-filled steel tubular stub columns. Thin-Walled Structures, 2021, 167, 108211.	2.7	13
77	Investigations on material properties and residual stresses in cold-formed high strength steel irregular hexagonal hollow sections. Thin-Walled Structures, 2022, 176, 109220.	2.7	13
78	Experimental assessment of the flexural behaviour of concrete-filled steel tubular beams with octagonal sections. Engineering Structures, 2019, 199, 109604.	2.6	12
79	Testing, finite element analysis and design of high strength steel RHS T-joints. Engineering Structures, 2021, 227, 111184.	2.6	12
80	Experimental and numerical investigations of hybrid high strength steel welded T-section stub columns with Q690 flange and Q460 web. Thin-Walled Structures, 2022, 177, 109403.	2.7	12
81	Cyclic behaviour of external diaphragm joint to CHS column with builtâ€in replaceable links. Steel Construction, 2016, 9, 331-338.	0.4	11
82	Three-Dimensional Cyclic Performance on New Ring-Beam Connection between Concrete-Filled Tubular Column and Reinforced-Concrete Beams. Advances in Structural Engineering, 2015, 18, 1287-1302.	1.2	10
83	Material properties and residual stresses of cold-formed high-strength-steel circular hollow sections. Journal of Constructional Steel Research, 2020, 170, 106099.	1.7	10
84	Material properties and residual stresses of cold-formed octagonal hollow sections. Journal of Constructional Steel Research, 2020, 170, 106078.	1.7	10
85	Experimental investigation on material properties and residual stresses in cold-formed high strength steel irregular octagonal hollow sections. Journal of Constructional Steel Research, 2022, 191, 107170.	1.7	10
86	Experimental investigations on material properties and stub column behaviour of high strength steel irregular hexagonal hollow sections. Journal of Constructional Steel Research, 2022, 196, 107343.	1.7	10
87	Effect of access openings on the buckling performance of square hollow section module stub columns. Journal of Constructional Steel Research, 2021, 177, 106438.	1.7	9
88	Fracture prediction for square hollow section braces under extremely low cycle fatigue. Thin-Walled Structures, 2022, 171, 108716.	2.7	9
89	Numerical investigation on the structural performance of octagonal hollow section columns. Structures, 2021, 34, 3257-3267.	1.7	8
90	Strength predictions of circular hollow section T-joints of steel grade 1100ÂMPa. Journal of Constructional Steel Research, 2022, 188, 107003.	1.7	7

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91	Seismic design of beam-through steel frames with self-centering modular panels. Journal of Constructional Steel Research, 2018, 141, 179-188.	1.7	6
92	Structural behaviour and design of high strength steel CHS T-joints. Thin-Walled Structures, 2021, 159, 107215.	2.7	6
93	Experimental Study and Numerical Assessment of the Flexural Behaviour of Square and Rectangular CFST Members under Monotonic and Cyclic Loading. Key Engineering Materials, 0, 763, 804-811.	0.4	4
94	Reliable in-plane shear modulus for pultruded-fibre-reinforced polymer sections. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2018, 171, 818-829.	0.4	4
95	Chord plastification in high strength steel circular hollow section X-joints: Testing, modelling and strength predictions. Engineering Structures, 2021, 243, 112692.	2.6	4
96	Super structures: an update on high-strength-steel design. Proceedings of the Institution of Civil Engineers: Civil Engineering, 2017, 170, 149-149.	0.3	3
97	Test and analysis on the seismic performance of a steel truss-to-circular CFT column sub-assembly. Journal of Constructional Steel Research, 2014, 103, 200-214.	1.7	2
98	Numerical investigation on I-beam to CHS column connections equipped with NiTi shape memory alloy and steel tendons under cyclic loads. Structures, 2015, 4, 114-124.	1.7	2
99	Special issue on resilience in steel structures. Frontiers of Structural and Civil Engineering, 2016, 10, 237-238.	1.2	2
100	12.18: Experimental investigation on coldâ€formed high strength steel circular hollow sections under combined compression and bending. Ce/Papers, 2017, 1, 3622-3630.	0.1	1
101	Experimental Investigation on Concrete-Filled Double-Skin Steel Tube Under Eccentric Tension. , 2013, , .		1
102	Flexural and shear capacities of semi-precast RC beams with embedded steel connections. Magazine of Concrete Research, 2019, 71, 827-846.	0.9	0
103	Enhanced Composite Behavior of CFST with Blindâ€Bolted Connections under Tensile Pullâ€out Tests. Ce/Papers, 2021, 4, 65-72.	0.1	0
104	Mid-length lateral deflection of cyclically-loaded braces. Steel and Composite Structures, 2015, 18, 1569-1582.	1.3	0