Mark Bradford

List of Publications by Year
in descending order

230 papers	8,005 citations	50276 46 h-index	98798 67 g-index
230 all docs	230 docs citations	230 times ranked	2379 citing authors

#	Article	IF	Citations
1	In-plane stability of arches. International Journal of Solids and Structures, 2002, 39, 105-125.	2.7	194
2	Elastic local buckling of steel plates in composite steel-concrete members. Engineering Structures, 1996, 18, 193-200.	5.3	162
3	Experimental investigation of the overall buckling behaviour of 960MPa high strength steel columns. Journal of Constructional Steel Research, 2013, 88, 256-266.	3.9	162
4	Bending, buckling and vibration of size-dependent functionally graded annular microplates. Composite Structures, 2012, 94, 3250-3257.	5.8	149
5	Numerical simulation of steel pretensioned bolted end-plate connections of different types and details. Engineering Structures, 2008, 30, 2677-2686.	5.3	124
6	Lateral-Distortional buckling of steel Iâ€"Section members. Journal of Constructional Steel Research, 1992, 23, 97-116.	3.9	120
7	Slenderness limits for filled circular steel tubes. Journal of Constructional Steel Research, 2002, 58, 243-252.	3.9	119
8	Experimental study of composite beams having a precast geopolymer concrete slab and deconstructable bolted shear connectors. Engineering Structures, 2016, 114, 1-13.	5.3	118
9	A direct stiffness analysis of a composite beam with partial interaction. International Journal for Numerical Methods in Engineering, 2004, 61, 657-672.	2.8	110
10	Strength Analysis of Steelâ€"Concrete Composite Beams in Combined Bending and Shear. Journal of Structural Engineering, 2005, 131, 1593-1600.	3.4	92
11	Modelling of steel-timber composite connections: Validation of finite element model and parametric study. Engineering Structures, 2017, 138, 35-49.	5.3	88
12	Experimental and numerical study of steel-timber composite (STC) beams. Journal of Constructional Steel Research, 2016, 122, 367-378.	3.9	87
13	Experimental study of flush end plate beam-to-CFST column composite joints with deconstructable bolted shear connectors. Engineering Structures, 2015, 99, 616-630.	5.3	84
14	Buckling of plates with different end conditions using the finite strip method. Computers and Structures, 1995, 56, 75-83.	4.4	83
15	The effects of partial shear connection in composite flush end plate joints Part I â€" experimental study. Journal of Constructional Steel Research, 2006, 62, 378-390.	3.9	82
16	Experimental and analytical behaviour of steel-timber composite connections. Construction and Building Materials, 2016, 118, 63-75.	7.2	82
17	Load-slip behaviour of steel-cross laminated timber (CLT) composite connections. Journal of Constructional Steel Research, 2016, 122, 110-121.	3.9	80
18	Elastic Buckling of Tapered Monosymmetric Iâ€Beams. Journal of Structural Engineering, 1988, 114, 977-996.	3.4	79

#	Article	IF	Citations
19	Composite Beams with Partial Interaction under Sustained Loads. Journal of Structural Engineering, 1992, 118, 1871-1883.	3.4	79
20	Nonlinear analysis and buckling of elastically supported circular shallow arches. International Journal of Solids and Structures, 2007, 44, 2401-2425.	2.7	79
21	Finite element modelling of steelâ€“concrete composite beams with high-strength friction-grip bolt shear connectors. Finite Elements in Analysis and Design, 2016, 108, 54-65.	3.2	77
22	Time-Dependent Behavior of Continuous Composite Beams at Service Loads. Journal of Structural Engineering, 1995, 121, 319-327.	3.4	76
23	Flexural performance of innovative sustainable composite steel-concrete beams. Engineering Structures, 2017, 130, 282-296.	5.3	75
24	Elastic interaction of local and lateral buckling in beams. Thin-Walled Structures, 1984, 2, 1-25.	5.3	72
25	Non-linear in-plane buckling of rotationally restrained shallow arches under a central concentrated load. International Journal of Non-Linear Mechanics, 2008, 43, 1-17.	2.6	69
26	Elastic buckling of unilaterally constrained rectangular plates in pure shear. Engineering Structures, 1999, 21, 443-453.	5.3	68
27	Experimental and numerical investigation of short-term behaviour of CLT-steel composite beams. Engineering Structures, 2017, 144, 43-57.	5.3	68
28	The effects of partial shear connection in the hogging moment regions of composite beams. Journal of Constructional Steel Research, 2004, 60, 897-919.	3.9	65
29	Seismic behaviour of a through-beam connection between concrete-filled steel tubular columns and reinforced concrete beams. Engineering Structures, 2014, 80, 24-39.	5.3	62
30	Nonlinear analysis of thin-walled members of variable cross-section. Part I: Theory. Computers and Structures, 2000, 77, 285-299.	4.4	61
31	Experimental study of sustainable high strength steel flush end plate beam-to-column composite joints with deconstructable bolted shear connectors. Engineering Structures, 2016, 123, 124-140.	5.3	61
32	Ultimate strength of continuous composite beams in combined bending and shear. Journal of Constructional Steel Research, 2004, 60, 1109-1128.	3.9	60
33	Analytical solutions for the time-dependent behaviour of composite beams with partial interaction. International Journal of Solids and Structures, 2006, 43, 3770-3793.	2.7	59
34	Numerical convergence of simple and orthogonal polynomials for the unilateral plate buckling problem using the Rayleigh-Ritz method. International Journal for Numerical Methods in Engineering, 1999, 44, 1685-1707.	2.8	57
35	The effects of partial shear connection in the hogging moment regions of composite beams Part IIâ€”Analytical study. Journal of Constructional Steel Research, 2004, 60, 921-962.	3.9	56
36	A spatially curved-beam element with warping and Wagner effects. International Journal for Numerical Methods in Engineering, 2005, 63, 1342-1369.	2.8	56

#	Article	IF	Citations
37	Longitudinal shear stress and bondâ€“slip relationships in composite concrete slabs. Engineering Structures, 2014, 69, 37-48.	5.3	56
38	Flexural behaviour of composite beams with high strength steel. Engineering Structures, 2013, 56, 1130-1141.	5.3	54
39	Composite connections between CLT slab and steel beam: Experiments and empirical models. Journal of Constructional Steel Research, 2017, 138, 823-836.	3.9	54
40	Nonlinear in-plane elastic buckling of shallow circular arches under uniform radial and thermal loading. International Journal of Mechanical Sciences, 2010, 52, 75-88.	6.7	53
41	Flexural-torsional buckling of high-strength steel beams. Journal of Constructional Steel Research, 2016, 124, 122-131.	3.9	53
42	Generalized Elastic Buckling of Restrained I-Beams by FEM. Journal of Structural Engineering, 1997, 123, 1631-1637.	3.4	52
43	Partial interaction in composite steel and concrete beams with full shear connection. Journal of Constructional Steel Research, 1997, 41, 235-248.	3.9	51
44	Effects of shrinkage on the long-term stresses and deformations of composite concrete slabs. Engineering Structures, 2012, 40, 9-19.	5.3	50
45	Nonlinear analysis of thin-walled members of variable cross-section. Part II: Application. Computers and Structures, 2000, 77, 301-313.	4.4	49
46	In-plane strength and design of fixed steel I-section arches. Engineering Structures, 2004, 26, 291-301.	5.3	49
47	Non-linear in-plane postbuckling of arches with rotational end restraints under uniform radial loading. International Journal of Non-Linear Mechanics, 2009, 44, 975-989.	2.6	49
48	Analysis of composite beams with partial shear interaction using available modelling techniques: A comparative study. Computers and Structures, 2006, 84, 930-941.	4.4	48
49	Dynamic buckling of shallow pin-ended arches under a sudden central concentrated load. Journal of Sound and Vibration, 2008, 317, 898-917.	3.9	48
50	Generic modelling of composite steelâ€“concrete slabs subjected to shrinkage, creep and thermal strains including partial interaction. Engineering Structures, 2010, 32, 1459-1465.	5.3	46
51	Direct stiffness analysis of a composite beam-column element with partial interaction. Computers and Structures, 2007, 85, 1206-1214.	4.4	45
52	In-plane thermoelastic behaviour and buckling of pin-ended and fixed circular arches. Engineering Structures, 2010, 32, 250-260.	5.3	45
53	A new analytical solution for lateral-torsional buckling of arches under axial uniform compression. Engineering Structures, 2012, 41, 14-23.	5.3	44
54	Distortional buckling of monosymmetric I-beams. Journal of Constructional Steel Research, 1985, 5, 123-136.	3.9	43

#	Article	IF	Citations
55	Strength and serviceability of continuous composite slabs with deep trapezoidal steel decking and steel fibre reinforced concrete. Engineering Structures, 2013, 49, 866-875.	5.3	42
56	Inelastic distortional buckling of I-beams. Computers and Structures, 1986, 24, 923-933.	4.4	41
57	Three-dimensional constitutive modelling of arbitrarily orientated timber based on continuum damage mechanics. Finite Elements in Analysis and Design, 2017, 135, 79-90.	3.2	41
58	Inelastic Analysis and Behavior of Steel I-Beams Curved in Plan. Journal of Structural Engineering, 2000, 126, 772-779.	3.4	40
59	Shear Peeling of Steel Plates Bonded to Tension Faces of RC Beams. Journal of Structural Engineering, 2001, 127, 1453-1459.	3.4	40
60	Experimental study of flush end plate beam-to-column composite joints with precast slabs and deconstructable bolted shear connectors. Structures, 2016, 7, 43-58.	3.6	39
61	Distortional Buckling Solutions for Continuous Composite Beams. Journal of Structural Engineering, 1992, 118, 73-89.	3.4	38
62	Ductility of Profiled Composite Beams. Part II: Analytical Study. Journal of Structural Engineering, 1995, 121, 883-889.	3.4	38
63	Full-scale tests on composite steelâ€“concrete beams with steel trapezoidal decking. Journal of Constructional Steel Research, 2009, 65, 1490-1506.	3.9	38
64	Dynamic response of cable-stayed bridge under blast load. Engineering Structures, 2016, 127, 719-736.	5.3	38
65	Ductility of Profiled Composite Beams. Part I: Experimental Study. Journal of Structural Engineering, 1995, 121, 876-882.	3.4	37
66	Non-linear in-plane analysis and buckling of pinnedâ€“fixed shallow arches subjected to a central concentrated load. International Journal of Non-Linear Mechanics, 2012, 47, 118-131.	2.6	37
67	In-plane strength of steel arches with a sinusoidal corrugated web under a full-span uniform vertical load: Experimental and numerical investigations. Engineering Structures, 2016, 110, 105-115.	5.3	37
68	Buckling of elastically restrained beams with web distortions. Thin-Walled Structures, 1988, 6, 287-304.	5.3	36
69	An analytical model for reinforced concrete beams with bolted side plates accounting for longitudinal and transverse partial interaction. International Journal of Solids and Structures, 2001, 38, 6985-6996.	2.7	36
70	In-Plane Stability of Parabolic Arches with Horizontal Spring Supports. I: Theory. Journal of Structural Engineering, 2007, 133, 1130-1137.	3.4	36
71	Five-phase composite sphere model for chloride diffusivity prediction of recycled aggregate concrete. Magazine of Concrete Research, 2013, 65, 573-588.	2.0	36
72	Out-of-Plane Strength Design of Fixed Steel I-Section Arches. Journal of Structural Engineering, 2005, 131, 560-568.	3.4	35

#	Article	IF	Citations
73	In-plane strength of concrete-filled steel tubular circular arches. Journal of Constructional Steel Research, 2012, 69, 77-94.	3.9	35
74	Geometric and material nonlinear analyses of elastically restrained arches. Engineering Structures, 2007, 29, 283-295.	5.3	34
75	Non-linear buckling and postbuckling analysis of arches with unequal rotational end restraints under a central concentrated load. International Journal of Solids and Structures, 2012, 49, 3762-3773.	2.7	34
76	Inelastic buckling of beam-columns with unequal end moments. Journal of Constructional Steel Research, 1985, 5, 195-212.	3.9	33
77	Elastic Analysis of Straight Members at Elevated Temperatures. Advances in Structural Engineering, 2006, 9, 611-618.	2.4	33
78	Second-order inelastic analysis of composite framed structures based on the refined plastic hinge method. Engineering Structures, 2009, 31, 799-813.	5.3	33
79	Nonlinear Thermoelastic Buckling of Pin-Ended Shallow Arches under Temperature Gradient. Journal of Engineering Mechanics - ASCE, 2010, 136, 960-968.	2.9	33
80	Time-dependent in-plane behaviour and buckling of concrete-filled steel tubular arches. Engineering Structures, 2011, 33, 1781-1795.	5.3	33
81	Stiffness and strength degradation of steel shear walls having an arbitrarily-located opening. Journal of Constructional Steel Research, 2012, 79, 91-100.	3.9	33
82	Elastic distortional buckling of continuously restrained I-section beamâ€“columns. Journal of Constructional Steel Research, 2006, 62, 223-230.	3.9	32
83	Flexural-torsional buckling of shallow arches with open thin-walled section under uniform radial loads. Thin-Walled Structures, 2007, 45, 352-362.	5.3	32
84	Semi-compact steel plates with unilateral restraint subjected to bending, compression and shear. Journal of Constructional Steel Research, 2000, 56, 47-67.	3.9	31
85	Elastic flexural-torsional buckling of fixed arches. Quarterly Journal of Mechanics and Applied Mathematics, 2004, 57, 551-569.	1.3	31
86	Elastic lateralâ€“torsional buckling of circular arches subjected to a central concentrated load. International Journal of Mechanical Sciences, 2010, 52, 847-862.	6.7	31
87	Finite element analysis of HSS semi-rigid composite joints with precast concrete slabs and demountable bolted shear connectors. Finite Elements in Analysis and Design, 2016, 122, 16-38.	3.2	31
88	Nonlinear elastic analysis of composite beams curved in-plan. Engineering Structures, 2009, 31, 1613-1624.	5.3	30
89	Nonlinear dynamic buckling of pinnedâ€“fixed shallow arches under a sudden central concentrated load. Nonlinear Dynamics, 2013, 73, 1289-1306.	5.2	30
90	Elastic out-of-plane buckling load of circular steel tubular truss arches incorporating shearing effects. Engineering Structures, 2013, 52, 697-706.	5.3	30

#	Article	IF	Citations
91	An experimental study on out-of-plane inelastic buckling strength of fixed steel arches. Engineering Structures, 2015, 98, 118-127.	5.3	30
92	Numerical studies of cyclic behavior and design suggestions on triple-truss-confined buckling-restrained braces. Engineering Structures, 2017, 146, 1-17.	5.3	30
93	Effects of approximations in analyses of beams of open thinâ€walled crossâ€sectionâ€”part II: 3â€D nonâ€linear behaviour. International Journal for Numerical Methods in Engineering, 2001, 51, 773-790.	2.8	30
94	Distortional buckling of elastically restrained cantilevers. Journal of Constructional Steel Research, 1998, 47, 3-18.	3.9	29
95	A simple method for the inclusion of external and internal supports in the spline finite strip method (SFSM) of buckling analysis. Computers and Structures, 2008, 86, 529-544.	4.4	29
96	In-plane stability of preloaded shallow arches against dynamic snap-through accounting for rotational end restraints. Engineering Structures, 2013, 56, 1496-1510.	5.3	29
97	Numerical and experimental studies of corrugated-web-connected buckling-restrained braces. Engineering Structures, 2017, 134, 107-124.	5.3	29
98	Effects of approximations in analyses of beams of open thinâ€walled crossâ€sectionâ€”part I: Flexuralâ€“torsional stability. International Journal for Numerical Methods in Engineering, 2001, 51, 757-772.	2.8	29
99	On the use of bubble functions in the local buckling analysis of plate structures by the spline finite strip method. International Journal for Numerical Methods in Engineering, 2000, 48, 583-593.	2.8	28
100	Elastic Flexural-Torsional Buckling of Discretely Restrained Arches. Journal of Structural Engineering, 2002, 128, 719-727.	3.4	28
101	The effects of partial shear connection in composite flush end plate joints Part IIâ€”Analytical study and design appraisal. Journal of Constructional Steel Research, 2006, 62, 391-412.	3.9	28
102	Lateral dynamic interaction analysis of a trainâ€“girderâ€“pier system. Journal of Sound and Vibration, 2008, 318, 927-942.	3.9	28
103	Nonlinear long-term behaviour of spherical shallow thin-walled concrete shells of revolution. International Journal of Solids and Structures, 2010, 47, 204-215.	2.7	28
104	A new shape function for tapered three-dimensional beams with flexible connections. Journal of Constructional Steel Research, 2012, 70, 43-50.	3.9	28
105	Distortional buckling of thin-web beam-columns. Engineering Structures, 1982, 4, 2-10.	5.3	27
106	Buckling of longitudinally stiffened plates in bending and compression. Canadian Journal of Civil Engineering, 1989, 16, 607-614.	1.3	27
107	Inelastic restrained distortional buckling of continuous composite T-beams. Journal of Constructional Steel Research, 2009, 65, 850-859.	3.9	27
108	Nonlinear analysis and buckling of shallow arches with unequal rotational end restraints. Engineering Structures, 2013, 46, 615-630.	5.3	27

#	Article	IF	Citations
109	Nonlinear Equilibrium and Buckling of Fixed Shallow Arches Subjected to an Arbitrary Radial Concentrated Load. International Journal of Structural Stability and Dynamics, 2017, 17, 1750082.	2.4	27
110	Deconstructable timber-concrete composite beams with panelised slabs: Finite element analysis. Construction and Building Materials, 2018, 163, 798-811.	7.2	27
111	Analysis of buckling tests on beams on seat supports. Journal of Constructional Steel Research, 1994, 28, 227-242.	3.9	26
112	Strength of compact steel beams with partial restraint. Journal of Constructional Steel Research, 2000, 53, 183-200.	3.9	26
113	Local buckling and slenderness limits for flange outstands at elevated temperatures. Journal of Constructional Steel Research, 2007, 63, 591-598.	3.9	26
114	Analysis of composite beams with partial interaction using the direct stiffness approach accounting for time effects. International Journal for Numerical Methods in Engineering, 2009, 78, 564-586.	2.8	26
115	Long-Span Shallow Steel Arches Subjected to Fire Loading. Advances in Structural Engineering, 2010, 13, 501-511.	2.4	26
116	Numerical Study of Deconstructable Flush End Plate Composite Joints to Concrete-filled Steel Tubular Columns. Structures, 2016, 8, 130-143.	3.6	26
117	Sustainable Design of Deconstructable Steel-Concrete Composite Structures. Procedia Engineering, 2016, 145, 1153-1160.	1.2	26
118	Experimental study of steel-timber composite (STC) beam to steel column joints having a flush end-plate. Engineering Structures, 2018, 174, 906-918.	5.3	26
119	Buckling of arbitrary quadrilateral plates with intermediate supports using the Galerkin method. Computer Methods in Applied Mechanics and Engineering, 1998, 164, 297-306.	6.6	25
120	Nonlinear analysis of moderately thick reinforced concrete slabs at elevated temperatures using a rectangular layered plate element with Timoshenko beam functions. Engineering Structures, 2007, 29, 2751-2761.	5.3	25
121	A layered shear-flexural plate/shell element using Timoshenko beam functions for nonlinear analysis of reinforced concrete plates. Finite Elements in Analysis and Design, 2007, 43, 888-900.	3.2	25
122	Generic nonlinear modelling of restrained steel beams at elevated temperatures. Engineering Structures, 2009, 31, 2787-2796.	5.3	25
123	Nonlinear elastic analysis and buckling of pinnedâ€“fixed arches. International Journal of Mechanical Sciences, 2013, 68, 212-223.	6.7	25
124	Stability of tapered I-beams. Journal of Constructional Steel Research, 1988, 9, 195-216.	3.9	24
125	Buckling of doubly-symmetric cantilevers with slender webs. Engineering Structures, 1992, 14, 327-334.	5.3	24
126	Vibration analysis of simply supported plates of general shape with internal point and line supports using the Galerkin method. Engineering Structures, 2000, 22, 1180-1188.	5.3	24

#	Article	IF	Citations
127	Elastic flexural-torsional buckling of continuously restrained arches. International Journal of Solids and Structures, 2002, 39, 2299-2322.	2.7	24
128	Behaviour of a T-stub assembly in steel beam-to-column connections at elevated temperatures. Engineering Structures, 2008, 30, 2893-2899.	5.3	24
129	Effects of prebuckling analyses on determining buckling loads of pin-ended circular arches. Mechanics Research Communications, 2010, 37, 545-553.	1.8	24
130	Long-term non-linear behaviour and buckling of shallow concrete-filled steel tubular arches. International Journal of Non-Linear Mechanics, 2011, 46, 1155-1166.	2.6	24
131	Multiple unstable equilibrium branches and non-linear dynamic buckling of shallow arches. International Journal of Non-Linear Mechanics, 2014, 60, 33-45.	2.6	24
132	Experimental and numerical studies of hysteretic response of triple-truss-confined buckling-restrained braces. Engineering Structures, 2017, 148, 157-174.	5.3	24
133	Local buckling and slenderness limits for steel webs under combined bending, compression and shear at elevated temperatures. Thin-Walled Structures, 2008, 46, 128-146.	5.3	23
134	A steel-concrete composite beam element with material nonlinearities and partial shear interaction. Finite Elements in Analysis and Design, 2009, 45, 966-972.	3.2	23
135	Investigation into long-term behaviour and stability of concrete-filled steel tubular arches. Journal of Constructional Steel Research, 2015, 104, 127-136.	3.9	23
136	Steel-timber composite beam-to-column joints: Effect of connections between timber slabs. Journal of Constructional Steel Research, 2018, 151, 132-145.	3.9	23
137	Bolt shear connectors in grout pockets: Finite element modelling and parametric study. Construction and Building Materials, 2018, 176, 179-192.	7.2	23
138	Inelastic initial local buckling of plates with and without residual stresses. Engineering Structures, 1993, 15, 31-39.	5.3	22
139	Behaviour of unpropped composite girders curved in plan under construction loading. Engineering Structures, 2001, 23, 779-789.	5.3	22
140	Effects of prebuckling deformations on the elastic flexural-torsional buckling of laterally fixed arches. International Journal of Mechanical Sciences, 2004, 46, 321-342.	6.7	22
141	Creep Buckling of Shallow Parabolic Concrete Arches. Journal of Structural Engineering, 2006, 132, 1641-1649.	3.4	22
142	Composite beams with both longitudinal and transverse partial interaction subjected to elevated temperatures. Engineering Structures, 2007, 29, 2737-2750.	5.3	22
143	Time-dependent creep and shrinkage analysis of composite beams curved in-plan. Computers and Structures, 2011, 89, 67-77.	4.4	22
144	Beamâ€“column element for non-linear dynamic analysis of steel members subjected to blast loading. Engineering Structures, 2011, 33, 1259-1266.	5.3	22

#	Article	IF	Citations
145	Lateralâ€“torsional elastic buckling of rotationally restrained arches with a thin-walled section under a central concentrated load. Thin-Walled Structures, 2013, 73, 18-26.	5.3	22
146	Computational modelling of the moment-rotation relationship for deconstructable flush end plate beam-to-column composite joints. Journal of Constructional Steel Research, 2017, 129, 75-92.	3.9	22
147	Inelastic local buckling of fabricated I-beams. Journal of Constructional Steel Research, 1987, 7, 317-334.	3.9	21
148	Local buckling of cold formed steel in composite structural elements at elevated temperatures. Journal of Constructional Steel Research, 1995, 34, 53-73.	3.9	21
149	Inelastic local buckling of plates and plate assemblies using bubble functions. Engineering Structures, 1995, 17, 95-103.	5.3	21
150	Inelastic buckling of I-beams with continuous elastic tension flange restraint. Journal of Constructional Steel Research, 1998, 48, 63-77.	3.9	21
151	Unilateral buckling of elastically restrained rectangular mild steel plates. Computational Mechanics, 2000, 26, 317-324.	4.0	21
152	Interaction between Flexure and Shear on the Debonding of RC Beams Retrofitted with Compression Face Plates. Advances in Structural Engineering, 2002, 5, 223-230.	2.4	21
153	Elasto-plastic buckling and postbuckling of arches subjected to a central load. Computers and Structures, 2003, 81, 1811-1825.	4.4	21
154	A rational elasto-plastic spatially curved thin-walled beam element. International Journal for Numerical Methods in Engineering, 2007, 70, 253-290.	2.8	21
155	An efficient compound-element for potential progressive collapse analysis of steel frames with semi-rigid connections. Finite Elements in Analysis and Design, 2012, 60, 35-48.	3.2	21
156	Localized loading and nonlinear instability and post-instability of fixed arches. Thin-Walled Structures, 2018, 131, 165-178.	5.3	21
157	Inelastic Lateral Buckling of Beamâ€Columns. Journal of Structural Engineering, 1987, 113, 2259-2277.	3.4	20
158	Some notes on finite element buckling formulations for beams. Computers and Structures, 1994, 52, 1119-1126.	4.4	20
159	Flexuralâ€“torsional buckling of fixed steel arches under uniform bending. Journal of Constructional Steel Research, 2006, 62, 20-26.	3.9	20
160	Flexural time-dependent cracking and post-cracking behaviour of FRP strengthened concrete beams. International Journal of Solids and Structures, 2012, 49, 1595-1607.	2.7	20
161	Effects of approximations on non-linear in-plane elastic buckling and postbuckling analyses of shallow parabolic arches. Engineering Structures, 2015, 101, 58-67.	5.3	20
162	Dynamic response and performance of cable-stayed bridges under blast load: Effects of pylon geometry. Engineering Structures, 2017, 137, 50-66.	5.3	20

#	Article	IF	Citations
163	In-plane nonlinear multiple equilibria and switches of equilibria of pinnedâ€“fixed arches under an arbitrary radial concentrated load. Archive of Applied Mechanics, 2017, 87, 1909-1928.	2.2	20
164	Lateral-distortional buckling of continuously restrained columns. Journal of Constructional Steel Research, 1997, 42, 121-139.	3.9	19
165	Thermoelastic lateral-torsional buckling of fixed slender beams under linear temperature gradient. International Journal of Mechanical Sciences, 2008, 50, 1183-1193.	6.7	19
166	Nonlinear dynamic buckling of shallow circular arches under a sudden uniform radial load. Journal of Sound and Vibration, 2012, 331, 4199-4217.	3.9	18
167	Effects of shape functions on flexuralâ€“torsional buckling of fixed circular arches. Engineering Structures, 2014, 59, 238-247.	5.3	18
168	Lateral-torsional buckling of arches under an arbitrary radial point load in a thermal environment incorporating shear deformations. Engineering Structures, 2019, 179, 189-203.	5.3	18
169	Buckling strength of deformable monosymmetric I-beams. Engineering Structures, 1988, 10, 167-173.	5.3	17
170	Timeâ€Dependent Analysis and Design of Composite Columns. Journal of Structural Engineering, 1990, 116, 3338-3357.	3.4	17
171	The use of bubble functions for the post-local buckling of plate assemblies by the finite strip method. International Journal for Numerical Methods in Engineering, 1995, 38, 955-968.	2.8	17
172	Local Buckling of Composite Laminated Plate Assemblies Using the Spline Finite Strip Method. Advances in Structural Engineering, 2000, 3, 173-178.	2.4	17
173	Numerical Analysis of Continuous Composite Beams under Service Loading. Advances in Structural Engineering, 2002, 5, 1-12.	2.4	17
174	Nonlinear analysis of members curved in space with warping and Wagner effects. International Journal of Solids and Structures, 2005, 42, 3147-3169.	2.7	17
175	Second-order elastic finite element analysis of steel structures using a single element per member. Engineering Structures, 2010, 32, 2606-2616.	5.3	17
176	Local buckling of I-section beams with longitudinal web stiffeners. Thin-Walled Structures, 1993, 15, 1-13.	5.3	16
177	Analysis of general quadrilateral orthotropic thick plates with arbitrary boundary conditions by the Rayleigh-Ritz method. International Journal for Numerical Methods in Engineering, 2002, 54, 1087-1102.	2.8	16
178	In-Plane Stability of Parabolic Arches with Horizontal Spring Supports. II: Experiments. Journal of Structural Engineering, 2007, 133, 1138-1145.	3.4	16
179	In-Plane Nonlinear Buckling Analysis of Deep Circular Arches Incorporating Transverse Stresses. Journal of Engineering Mechanics - ASCE, 2008, 134, 362-373.	2.9	16
180	Lateral Stability of Beams on Seats. Journal of Structural Engineering, 1983, 109, 2212-2215.	3.4	15

#	Article	IF	Citations
181	Distortional instability of fabricated monosymmetric I-beams. Computers and Structures, 1988, 29, 715-724.	4.4	15
182	Lateral-distortional buckling of tee-section beams. Thin-Walled Structures, 1990, 10, 13-30.	5.3	15
183	Nonlinear thermoelastic analysis of composite steelâ€“concrete arches including partial interaction and elevated temperature loading. Engineering Structures, 2010, 32, 3248-3257.	5.3	15
184	ENERGY APPROACH FOR DYNAMIC BUCKLING OF AN UNDAMPED ARCH MODEL UNDER STEP LOADING WITH INFINITE DURATION. International Journal of Structural Stability and Dynamics, 2010, 10, 411-439.	2.4	15
185	Treatment of slip locking for displacementâ€based finite element analysis of composite beamâ€“columns. International Journal for Numerical Methods in Engineering, 2011, 85, 805-826.	2.8	15
186	Effects of nonlinearity and temperature field on in-plane behaviour and buckling of crown-pinned steel arches. Engineering Structures, 2014, 74, 1-12.	5.3	15
187	Theoretical and numerical studies of elastic buckling and load resistance of double cross-arm pre-tensioned cable stayed buckling-restrained braces. Engineering Structures, 2017, 153, 674-699.	5.3	15
188	Inelastic buckling of tapered monosymmetric I-beams. Engineering Structures, 1989, 11, 119-126.	5.3	14
189	Buckling Strength of Partially Restrained Iâ€Beams. Journal of Structural Engineering, 1989, 115, 1272-1276.	3.4	14
190	Local Buckling by Complex Finite Strip Method Using Bubble Functions. Journal of Engineering Mechanics - ASCE, 1994, 120, 43-57.	2.9	14
191	Strength Design of Steel I-Section Beams Curved in Plan. Journal of Structural Engineering, 2001, 127, 639-646.	3.4	14
192	Non-linear inelastic analysis of steel arches at elevated temperatures. Journal of Constructional Steel Research, 2010, 66, 512-519.	3.9	14
193	Short-term behaviour of shallow thin-walled concrete dome under uniform external pressure. Thin-Walled Structures, 2011, 49, 112-120.	5.3	14
194	Available rotation capacity of composite beams with high-strength materials under sagging moment. Journal of Constructional Steel Research, 2016, 118, 156-168.	3.9	14
195	Time-Dependent Deflection of Composite Concrete Slabs. ACI Structural Journal, 2014, 111, .	0.2	14
196	Elastic distortional buckling of tapered I-beams. Engineering Structures, 1994, 16, 97-110.	5.3	13
197	Inelastic local buckling of flat, thin-walled structures containing thickness-tapered plates. Thin-Walled Structures, 2004, 42, 351-368.	5.3	13
198	Antisymmetric Post-Buckling Localization of an Infinite Column on a Nonlinear Foundation with Softening. International Journal of Structural Stability and Dynamics, 2015, 15, 1540028.	2.4	13

#	Article	IF	Citations
199	Shrinkage and creep response of slender reinforced concrete columns under moment gradient: theory and test results. Magazine of Concrete Research, 2005, 57, 235-246.	2.0	12
200	Analytical Solutions for Elevated-Temperature Behavior of Composite Beams with Partial Interaction. Journal of Structural Engineering, 2007, 133, 788-799.	3.4	12
201	Buckling and Second-Order Effects in Dual Shear-Flexural Systems. Journal of Structural Engineering, 2008, 134, 1726-1732.	3.4	12
202	Nonlinear Quasi-Viscoelastic Behavior of Composite Beams Curved In-Plan. Journal of Engineering Mechanics - ASCE, 2011, 137, 238-247.	2.9	12
203	Creep and shrinkage analysis of curved composite beams with partial interaction. International Journal of Mechanical Sciences, 2012, 58, 57-68.	6.7	12
204	Arching behaviour of precast concrete slabs in a deconstructable composite bridge deck. Construction and Building Materials, 2015, 87, 67-77.	7.2	12
205	08.27: Steelâ€timber composite (STC) beams: Numerical simulation of longâ€term behaviour. Ce/Papers, 2017, 1, 2051-2059.	0.3	12
206	Stability of monosymmetric beam-columns with thin webs. Journal of Constructional Steel Research, 1990, 15, 323-339.	3.9	11
207	Numerical Study of the Nonlinear Dynamic Behaviour of Reinforced Concrete Cooling Towers under Earthquake Excitation. Advances in Structural Engineering, 2006, 9, 433-442.	2.4	11
208	Generic nonlinear modelling of a steel beam in a frame sub-assembly at elevated temperatures. Journal of Constructional Steel Research, 2008, 64, 732-736.	3.9	11
209	Elastic flexural-torsional instability of structural arches under hydrostatic pressure. International Journal of Mechanical Sciences, 2008, 50, 143-151.	6.7	11
210	Generic non-linear modelling of a bi-material composite beam with partial shear interaction. International Journal of Non-Linear Mechanics, 2009, 44, 290-297.	2.6	11
211	Time-dependent and thermal behaviour of spherical shallow concrete domes. Engineering Structures, 2009, 31, 1919-1929.	5.3	11
212	Analytical Model and Experimental Study of Failure Behavior of Thin-Walled Shallow Concrete Domes. Journal of Structural Engineering, 2011, 137, 88-99.	3.4	11
213	Long-Term Behavior of Continuous Composite Concrete Slabs with Steel Decking. ACI Structural Journal, 2018, 115, .	0.2	11
214	Nonlinear analysis for concrete frame structures using the finite element method. Computers and Structures, 1993, 48, 73-79.	4.4	10
215	A rational model for the distortional buckling of tapered members. Computer Methods in Applied Mechanics and Engineering, 1996, 130, 263-277.	6.6	10
216	A Newmark-based method for the stability of columns. Computers and Structures, 1999, 71, 689-700.	4.4	10

#	Article	IF	Citations
217	Creep buckling of imperfect thin-walled shallow concrete domes. Journal of Mechanics of Materials and Structures, 2010, 5, 107-128.	0.6	10
218	Application of RKPâ€FSM in the buckling and free vibration analysis of thin plates with abrupt thickness changes and internal supports. International Journal for Numerical Methods in Engineering, 2015, 104, 125-156.	2.8	10
219	Shrinkage Deformations of Composite Slabs with Open Trapezoidal Sheeting. Procedia Engineering, 2011, 14, 52-61.	1.2	9
220	Coupling of finite element and meshfree methods for lockingâ€free analysis of shearâ€deformable beams and plates. Engineering Computations, 2011, 28, 1003-1027.	1.4	9
221	Analysis of thick and orthotropic rectangular laminated composite plates using a state-space-based generalised RKP-FSM. Composite Structures, 2015, 133, 691-706.	5.8	9
222	A state space augmented generalised RKPM for three-dimensional analysis of thick and laminated composite plates. Computers and Structures, 2015, 158, 225-239.	4.4	9
223	A reliable numerical method for simulating the post-failure behaviour of concrete frame structures. Computers and Structures, 1994, 53, 579-589.	4.4	8
224	Buckling failure of an unusual braced steel frame supporting an electric dust-catcher. Engineering Failure Analysis, 2009, 16, 2400-2407.	4.0	8
225	Long-term deformations in continuous composite concrete slabs. Australian Journal of Structural Engineering, 2016, 17, 197-212.	1.1	8
226	Timeâ€Dependent Shortening of Slender RC Columns. Journal of Engineering Mechanics - ASCE, 1993, 119, 2036-2051.	2.9	7
227	Debonding of steel plates adhesively bonded to the compression faces of RC beams. Construction and Building Materials, 2005, 19, 413-422.	7.2	7
228	Nonlinear Analysis of Composite Beams with Partial Interaction in Steel Frame Structures at Elevated Temperature. Journal of Structural Engineering, 2010, 136, 968-977.	3.4	7
229	Steelâ€“Timber Composite Beam-to-Column Connections with Shear Tab. Journal of Structural Engineering, 2019, 145, .	3.4	7
230	Calculation of Time-Dependent Deflection of Composite Concrete Slabs: Simplified Design Approach. Practice Periodical on Structural Design and Construction, 2015, 20, 04014024.	1.3	4