

Huu Thai

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

132
papers

6,683
citations

46
h-index

78
g-index

137
ext. papers

7,918
ext. citations

4.6
avg, IF

6.93
L-index

#	Paper	IF	Citations
132	On viscoelastic transient response of magnetically imperfect functionally graded nanobeams. <i>International Journal of Engineering Science</i> , 2022 , 172, 103629	5.7	17
131	Numerical investigations of circular double-skin steel tubular slender beam-columns filled with ultra-high-strength concrete. <i>Engineering Structures</i> , 2022 , 254, 113814	4.7	1
130	Cost-Effective Mix Design for Ultra-High Strength Concrete Up to 170 MPa. <i>Lecture Notes in Civil Engineering</i> , 2022 , 547-555	0.3	
129	Behaviour and design of eccentrically loaded CFST columns with high strength materials and slender sections. <i>Journal of Constructional Steel Research</i> , 2022 , 188, 107004	3.8	2
128	Machine learning for structural engineering: A state-of-the-art review. <i>Structures</i> , 2022 , 38, 448-491	3.4	12
127	Prediction of the load-shortening curve of CFST columns using ANN-based models. <i>Journal of Building Engineering</i> , 2022 , 51, 104279	5.2	1
126	System reliability-based design of steel-concrete composite frames with CFST columns and composite beams. <i>Journal of Constructional Steel Research</i> , 2022 , 194, 107298	3.8	1
125	Machine learning-based prediction of CFST columns using gradient tree boosting algorithm. <i>Composite Structures</i> , 2021 , 259, 113505	5.3	18
124	Simulation of uniaxially compressed square ultra-high-strength concrete-filled steel tubular slender beam-columns. <i>Engineering Structures</i> , 2021 , 232, 111795	4.7	6
123	Nonlinear inelastic simulation of high-rise buildings with innovative composite coupling shear walls and CFST columns. <i>Structural Design of Tall and Special Buildings</i> , 2021 , 30, e1883	1.8	2
122	A review of the behaviour and design of steel-concrete composite shear walls. <i>Structures</i> , 2021 , 31, 1230-1253	3.4	7
121	Strength prediction of concrete-filled steel tubular columns using Categorical Gradient Boosting algorithm. <i>Engineering Structures</i> , 2021 , 238, 112109	4.7	16
120	Efficient machine learning models for prediction of concrete strengths. <i>Construction and Building Materials</i> , 2021 , 266, 120950	6.7	46
119	Evaluating structural response of concrete-filled steel tubular columns through machine learning. <i>Journal of Building Engineering</i> , 2021 , 34, 101888	5.2	15
118	Reliability considerations of modern design codes for CFST columns. <i>Journal of Constructional Steel Research</i> , 2021 , 177, 106482	3.8	6
117	Behaviour and design of high strength CFST columns with slender sections. <i>Journal of Constructional Steel Research</i> , 2021 , 182, 106645	3.8	10
116	Optimised mix design and elastic modulus prediction of ultra-high strength concrete. <i>Construction and Building Materials</i> , 2021 , 302, 124150	6.7	4

115	Application of machine learning models for designing CFCFST columns. <i>Journal of Constructional Steel Research</i> , 2021 , 185, 106856	3.8	7
114	StructuresNet and FireNet: Benchmarking databases and machine learning algorithms in structural and fire engineering domains. <i>Journal of Building Engineering</i> , 2021 , 44, 102977	5.2	11
113	A robust method for safety evaluation of steel trusses using Gradient Tree Boosting algorithm. <i>Advances in Engineering Software</i> , 2020 , 147, 102825	3.6	22
112	Review of Nonlinear Analysis and Modeling of Steel and Composite Structures. <i>International Journal of Structural Stability and Dynamics</i> , 2020 , 20, 2030003	1.9	4
111	A novel unified model for laminated composite beams. <i>Composite Structures</i> , 2020 , 238, 111943	5.3	9
110	Uncertainty quantification of the mechanical properties of lightweight concrete using micromechanical modelling. <i>International Journal of Mechanical Sciences</i> , 2020 , 173, 105468	5.5	10
109	Reliability Evaluation of Eurocode 4 for Concrete-Filled Steel Tubular Columns. <i>Lecture Notes in Civil Engineering</i> , 2020 , 323-328	0.3	1
108	A review on modular construction for high-rise buildings. <i>Structures</i> , 2020 , 28, 1265-1290	3.4	51
107	Analysis and design of eccentrically compressed ultra-high-strength slender CFST circular columns. <i>Structures</i> , 2020 , 27, 2481-2499	3.4	8
106	Application of ANN to the design of CFST columns. <i>Structures</i> , 2020 , 28, 2203-2220	3.4	14
105	Behaviour and design calculations of rectangular CFST beam-columns with slender sections. <i>Engineering Structures</i> , 2020 , 222, 111142	4.7	6
104	Slenderness limits for fabricated S960 ultra-high-strength steel and composite columns. <i>Journal of Constructional Steel Research</i> , 2019 , 159, 109-121	3.8	34
103	Behaviour of stainless steel bolts after exposure to elevated temperatures. <i>Journal of Constructional Steel Research</i> , 2019 , 157, 371-385	3.8	12
102	Concrete-filled steel tubular columns: Test database, design and calibration. <i>Journal of Constructional Steel Research</i> , 2019 , 157, 161-181	3.8	38
101	Dynamic stability of viscoelastic porous FG nanoplate under longitudinal magnetic field via a nonlocal strain gradient quasi-3D theory. <i>Composites Part B: Engineering</i> , 2019 , 175, 107164	10	34
100	Free-vibration analysis of multi-directional functionally graded plates based on 3D isogeometric analysis. <i>Journal of Science and Technology in Civil Engineering (STCE) - NUCE</i> , 2019 , 13, 1-11	1.7	3
99	Local and post-local buckling of fabricated high-strength steel and composite columns. <i>Journal of Constructional Steel Research</i> , 2019 , 154, 235-249	3.8	30
98	Ultra-high strength circular short CFST columns: Axisymmetric analysis, behaviour and design. <i>Engineering Structures</i> , 2019 , 179, 268-283	4.7	37

97	Experimental and numerical behaviour of blind bolted flush endplate composite connections. <i>Journal of Constructional Steel Research</i> , 2019 , 153, 179-195	3.8	14
96	Axial strength and elastic stiffness behaviour of partially confined concrete columns. <i>Construction and Building Materials</i> , 2019 , 196, 727-741	6.7	2
95	A Ritz type solution with exponential trial functions for laminated composite beams based on the modified couple stress theory. <i>Composite Structures</i> , 2018 , 191, 154-167	5.3	13
94	Ritz-Based Analytical Solutions for Bending, Buckling and Vibration Behavior of Laminated Composite Beams. <i>International Journal of Structural Stability and Dynamics</i> , 2018 , 18, 1850130	1.9	17
93	Behaviour and design of demountable beam-to-column composite bolted joints with extended end-plates. <i>Journal of Constructional Steel Research</i> , 2018 , 144, 221-235	3.8	14
92	Finite element analysis of large diameter high strength octagonal CFST short columns. <i>Thin-Walled Structures</i> , 2018 , 123, 467-482	4.7	32
91	Elastic properties of 3D printed fibre-reinforced structures. <i>Composite Structures</i> , 2018 , 193, 8-18	5.3	84
90	A simple shear deformation theory for nonlocal beams. <i>Composite Structures</i> , 2018 , 183, 262-270	5.3	31
89	New Ritz-solution shape functions for analysis of thermo-mechanical buckling and vibration of laminated composite beams. <i>Composite Structures</i> , 2018 , 184, 452-460	5.3	27
88	Size-dependent vibration of bi-directional functionally graded microbeams with arbitrary boundary conditions. <i>Composites Part B: Engineering</i> , 2018 , 134, 225-245	10	63
87	State-space Levy solution for size-dependent static, free vibration and buckling behaviours of functionally graded sandwich plates. <i>Composites Part B: Engineering</i> , 2018 , 149, 144-164	10	27
86	Postbuckling analysis of functionally graded nanoplates based on nonlocal theory and isogeometric analysis. <i>Composite Structures</i> , 2018 , 201, 13-20	5.3	15
85	Behaviour of bolted endplate composite joints to square and circular CFST columns. <i>Journal of Constructional Steel Research</i> , 2017 , 131, 68-82	3.8	30
84	A new simple shear deformation plate theory. <i>Composite Structures</i> , 2017 , 171, 277-285	5.3	20
83	Hygro-thermal effects on vibration and thermal buckling behaviours of functionally graded beams. <i>Composite Structures</i> , 2017 , 176, 1050-1060	5.3	29
82	Size-dependent behaviour of functionally graded sandwich microplates under mechanical and thermal loads. <i>Composites Part B: Engineering</i> , 2017 , 124, 218-241	10	33
81	Flexural analysis of laminated composite and sandwich beams using a four-unknown shear and normal deformation theory. <i>Composite Structures</i> , 2017 , 176, 388-397	5.3	35
80	Size-dependant behaviour of functionally graded microplates based on the modified strain gradient elasticity theory and isogeometric analysis. <i>Computers and Structures</i> , 2017 , 190, 219-241	4.5	76

79	Nonlinear static and transient isogeometric analysis of functionally graded microplates based on the modified strain gradient theory. <i>Engineering Structures</i> , 2017 , 153, 598-612	4-7	31
78	Free vibration of axially loaded composite beams using a four-unknown shear and normal deformation theory. <i>Composite Structures</i> , 2017 , 178, 406-414	5-3	31
77	Explicit simulation of bolted endplate composite beam-to-CFST column connections. <i>Thin-Walled Structures</i> , 2017 , 119, 749-759	4-7	17
76	Behaviour of axially loaded circular concrete-filled bimetallic stainless-carbon steel tubular short columns. <i>Engineering Structures</i> , 2017 , 147, 583-597	4-7	16
75	A review of continuum mechanics models for size-dependent analysis of beams and plates. <i>Composite Structures</i> , 2017 , 177, 196-219	5-3	200
74	Trigonometric-series solution for analysis of laminated composite beams. <i>Composite Structures</i> , 2017 , 160, 142-151	5-3	35
73	Application of the component method to bolted endplate composite beam-to-CFST column joints 2017 , 239-245		1
72	Post-buckling of functionally graded microplates under mechanical and thermal loads using isogeometric analysis. <i>Engineering Structures</i> , 2017 , 150, 905-917	4-7	23
71	Rotational stiffness and moment resistance of bolted endplate joints with hollow or CFST columns. <i>Journal of Constructional Steel Research</i> , 2016 , 126, 139-152	3-8	24
70	An analytical method for the vibration and buckling of functionally graded beams under mechanical and thermal loads. <i>Composites Part B: Engineering</i> , 2016 , 100, 152-163	10	50
69	System reliability evaluation of steel frames with semi-rigid connections. <i>Journal of Constructional Steel Research</i> , 2016 , 121, 29-39	3-8	28
68	Vibration and buckling analysis of functionally graded sandwich beams by a new higher-order shear deformation theory. <i>Composites Part B: Engineering</i> , 2015 , 76, 273-285	10	116
67	Finite element modelling of blind bolted composite joints. <i>Journal of Constructional Steel Research</i> , 2015 , 112, 339-353	3-8	29
66	Second-order distributed plasticity analysis of steel frames with semi-rigid connections. <i>Thin-Walled Structures</i> , 2015 , 94, 120-128	4-7	8
65	A review of theories for the modeling and analysis of functionally graded plates and shells. <i>Composite Structures</i> , 2015 , 128, 70-86	5-3	275
64	Static behaviour of functionally graded sandwich beams using a quasi-3D theory. <i>Composites Part B: Engineering</i> , 2015 , 68, 59-74	10	83
63	A quasi-3D theory for vibration and buckling of functionally graded sandwich beams. <i>Composite Structures</i> , 2015 , 119, 1-12	5-3	106
62	A modified stress-strain model accounting for the local buckling of thin-walled stub columns under axial compression. <i>Journal of Constructional Steel Research</i> , 2015 , 111, 57-69	3-8	20

61	Size-dependent behavior of functionally graded sandwich microbeams based on the modified couple stress theory. <i>Composite Structures</i> , 2015 , 123, 337-349	5.3	94
60	A refined higher-order shear deformation theory for bending, vibration and buckling analysis of functionally graded sandwich plates. <i>Steel and Composite Structures</i> , 2015 , 18, 91-120		38
59	Finite element model for vibration and buckling of functionally graded sandwich beams based on a refined shear deformation theory. <i>Engineering Structures</i> , 2014 , 64, 12-22	4.7	129
58	Analysis of functionally graded sandwich plates using a new first-order shear deformation theory. <i>European Journal of Mechanics, A/Solids</i> , 2014 , 45, 211-225	3.7	158
57	Finite element formulation of a refined plate theory for laminated composite plates. <i>Journal of Composite Materials</i> , 2014 , 48, 3521-3538	2.7	8
56	A quasi-3D hyperbolic shear deformation theory for functionally graded plates. <i>Acta Mechanica</i> , 2014 , 225, 951-964	2.1	48
55	Numerical modelling of concrete-filled steel box columns incorporating high strength materials. <i>Journal of Constructional Steel Research</i> , 2014 , 102, 256-265	3.8	74
54	Levy solution for free vibration analysis of functionally graded plates based on a refined plate theory. <i>KSCE Journal of Civil Engineering</i> , 2014 , 18, 1813-1824	1.9	11
53	A new inverse trigonometric shear deformation theory for isotropic and functionally graded sandwich plates. <i>Composites Part B: Engineering</i> , 2014 , 66, 233-246	10	116
52	Vibration and buckling analysis of functionally graded sandwich plates with improved transverse shear stiffness based on the first-order shear deformation theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 2110-2131	1.3	31
51	Improved refined plate theory accounting for effect of thickness stretching in functionally graded plates. <i>Composites Part B: Engineering</i> , 2014 , 56, 705-716	10	42
50	Static and vibration analysis of functionally graded beams using refined shear deformation theory. <i>Meccanica</i> , 2014 , 49, 155-168	2.1	73
49	A nonlocal sinusoidal plate model for micro/nanoscale plates. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014 , 228, 2652-2660	1.3	24
48	Static and free vibration of axially loaded functionally graded beams based on the first-order shear deformation theory. <i>Composites Part B: Engineering</i> , 2013 , 55, 147-157	10	95
47	Finite element formulation of various four unknown shear deformation theories for functionally graded plates. <i>Finite Elements in Analysis and Design</i> , 2013 , 75, 50-61	2.2	57
46	Advanced analysis of multi-span suspension bridges. <i>Journal of Constructional Steel Research</i> , 2013 , 90, 29-41	3.8	42
45	Size-dependent functionally graded Kirchhoff and Mindlin plate models based on a modified couple stress theory. <i>Composite Structures</i> , 2013 , 95, 142-153	5.3	189
44	An efficient shear deformation theory for vibration of functionally graded plates. <i>Archive of Applied Mechanics</i> , 2013 , 83, 137-149	2.2	51

43	Axial-flexural coupled vibration and buckling of composite beams using sinusoidal shear deformation theory. <i>Archive of Applied Mechanics</i> , 2013 , 83, 605-622	2.2	17
42	A simple first-order shear deformation theory for the bending and free vibration analysis of functionally graded plates. <i>Composite Structures</i> , 2013 , 101, 332-340	5.3	151
41	A simple refined theory for bending, buckling, and vibration of thick plates resting on elastic foundation. <i>International Journal of Mechanical Sciences</i> , 2013 , 73, 40-52	5.5	80
40	A simple quasi-3D sinusoidal shear deformation theory for functionally graded plates. <i>Composite Structures</i> , 2013 , 99, 172-180	5.3	117
39	ISOGEOMETRIC SIMULATION FOR BUCKLING, FREE AND FORCED VIBRATION OF ORTHOTROPIC PLATES. <i>International Journal of Applied Mechanics</i> , 2013 , 05, 1350017	2.4	31
38	A simple first-order shear deformation theory for laminated composite plates. <i>Composite Structures</i> , 2013 , 106, 754-763	5.3	111
37	Closed-form solution for buckling analysis of thick functionally graded plates on elastic foundation. <i>International Journal of Mechanical Sciences</i> , 2013 , 75, 34-44	5.5	56
36	A new sinusoidal shear deformation theory for bending, buckling, and vibration of functionally graded plates. <i>Applied Mathematical Modelling</i> , 2013 , 37, 3269-3281	4.5	171
35	Analytical solutions of refined plate theory for bending, buckling and vibration analyses of thick plates. <i>Applied Mathematical Modelling</i> , 2013 , 37, 8310-8323	4.5	66
34	A size-dependent functionally graded Reddy plate model based on a modified couple stress theory. <i>Composites Part B: Engineering</i> , 2013 , 45, 1636-1645	10	137
33	A simple higher-order shear deformation theory for bending and free vibration analysis of functionally graded plates. <i>Composite Structures</i> , 2013 , 96, 165-173	5.3	110
32	A size-dependent functionally graded sinusoidal plate model based on a modified couple stress theory. <i>Composite Structures</i> , 2013 , 96, 376-383	5.3	91
31	Levy solution for buckling analysis of functionally graded plates based on a refined plate theory. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2013 , 227, 2649-2664	1.3	13
30	Efficient higher-order shear deformation theories for bending and free vibration analyses of functionally graded plates. <i>Archive of Applied Mechanics</i> , 2013 , 83, 1755-1771	2.2	28
29	Analytical solution of a two variable refined plate theory for bending analysis of orthotropic Levy-type plates. <i>International Journal of Mechanical Sciences</i> , 2012 , 54, 269-276	5.5	67
28	Bending and free vibration of functionally graded beams using various higher-order shear deformation beam theories. <i>International Journal of Mechanical Sciences</i> , 2012 , 62, 57-66	5.5	256
27	Vibration and buckling of composite beams using refined shear deformation theory. <i>International Journal of Mechanical Sciences</i> , 2012 , 62, 67-76	5.5	62
26	Free vibration of axially loaded rectangular composite beams using refined shear deformation theory. <i>Composite Structures</i> , 2012 , 94, 3379-3387	5.3	39

25	Second-order inelastic analysis of cable-stayed bridges. <i>Finite Elements in Analysis and Design</i> , 2012 , 53, 48-55	2.2	12
24	A nonlocal beam theory for bending, buckling, and vibration of nanobeams. <i>International Journal of Engineering Science</i> , 2012 , 52, 56-64	5.7	380
23	A nonlocal sinusoidal shear deformation beam theory with application to bending, buckling, and vibration of nanobeams. <i>International Journal of Engineering Science</i> , 2012 , 54, 58-66	5.7	170
22	An efficient and simple refined theory for buckling analysis of functionally graded plates. <i>Applied Mathematical Modelling</i> , 2012 , 36, 1008-1022	4.5	96
21	Levy-type solution for free vibration analysis of orthotropic plates based on two variable refined plate theory. <i>Applied Mathematical Modelling</i> , 2012 , 36, 3870-3882	4.5	72
20	A refined shear deformation theory for free vibration of functionally graded plates on elastic foundation. <i>Composites Part B: Engineering</i> , 2012 , 43, 2335-2347	10	117
19	Static behavior of composite beams using various refined shear deformation theories. <i>Composite Structures</i> , 2012 , 94, 2513-2522	5.3	80
18	A refined plate theory for functionally graded plates resting on elastic foundation. <i>Composites Science and Technology</i> , 2011 , 71, 1850-1858	8.6	98
17	Nonlinear inelastic analysis of space frames. <i>Journal of Constructional Steel Research</i> , 2011 , 67, 585-592	3.8	18
16	Nonlinear inelastic analysis of concrete-filled steel tubular frames. <i>Journal of Constructional Steel Research</i> , 2011 , 67, 1797-1805	3.8	11
15	Nonlinear inelastic time-history analysis of truss structures. <i>Journal of Constructional Steel Research</i> , 2011 , 67, 1966-1972	3.8	29
14	Nonlinear static and dynamic analysis of cable structures. <i>Finite Elements in Analysis and Design</i> , 2011 , 47, 237-246	2.2	123
13	Second-order inelastic analysis of steel suspension bridges. <i>Finite Elements in Analysis and Design</i> , 2011 , 47, 351-359	2.2	4
12	Levy-type solution for buckling analysis of orthotropic plates based on two variable refined plate theory. <i>Composite Structures</i> , 2011 , 93, 1738-1746	5.3	56
11	Practical advanced analysis software for nonlinear inelastic dynamic analysis of steel structures. <i>Journal of Constructional Steel Research</i> , 2011 , 67, 453-461	3.8	15
10	Second-order inelastic dynamic analysis of steel frames using fiber hinge method. <i>Journal of Constructional Steel Research</i> , 2011 , 67, 1485-1494	3.8	11
9	Nonlinear inelastic dynamic analysis of suspension bridges. <i>Engineering Structures</i> , 2010 , 32, 3845-3856	4.7	19
8	Free vibration of laminated composite plates using two variable refined plate theory. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 626-633	5.5	90

7	Performance evaluation of steel and composite bridge safety barriers by vehicle crash simulation. <i>Interaction and Multiscale Mechanics</i> , 2010 , 3, 405-414		
6	Large deflection inelastic analysis of space trusses using generalized displacement control method. <i>Journal of Constructional Steel Research</i> , 2009 , 65, 1987-1994	3.8	43
5	Buckling analysis of plates using the two variable refined plate theory. <i>Thin-Walled Structures</i> , 2009 , 47, 455-462	4.7	77
4	A two variable refined plate theory for laminated composite plates. <i>Composite Structures</i> , 2009 , 89, 197-205	3.95	80
3	Practical advanced analysis software for nonlinear inelastic analysis of space steel structures. <i>Advances in Engineering Software</i> , 2009 , 40, 786-797	3.6	34
2	A novel general higher-order shear deformation theory for static, vibration and thermal buckling analysis of the functionally graded plates. <i>Journal of Thermal Stresses</i> , 1-21	2.2	1
1	Progressive collapse and robustness of modular high-rise buildings. <i>Structure and Infrastructure Engineering</i> , 1-13	2.9	4