Huu Thai

List of Publications by Citations

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	A nonlocal beam theory for bending, buckling, and vibration of nanobeams. *International Journal of Engineering Science*, **2012**, 52, 56-64	5.7	380
131	A review of theories for the modeling and analysis of functionally graded plates and shells. *Composite Structures*, **2015**, 128, 70-86	5.3	275
130	Bending and free vibration of functionally graded beams using various higher-order shear deformation beam theories. *International Journal of Mechanical Sciences*, **2012**, 62, 57-66	5.5	256
129	A review of continuum mechanics models for size-dependent analysis of beams and plates. *Composite Structures*, **2017**, 177, 196-219	5.3	200
128	Size-dependent functionally graded Kirchhoff and Mindlin plate models based on a modified couple stress theory. *Composite Structures*, **2013**, 95, 142-153	5.3	189
127	A new sinusoidal shear deformation theory for bending, buckling, and vibration of functionally graded plates. *Applied Mathematical Modelling*, **2013**, 37, 3269-3281	4.5	171
126	A nonlocal sinusoidal shear deformation beam theory with application to bending, buckling, and vibration of nanobeams. *International Journal of Engineering Science*, **2012**, 54, 58-66	5.7	170
125	Analysis of functionally graded sandwich plates using a new first-order shear deformation theory. *European Journal of Mechanics, A/Solids*, **2014**, 45, 211-225	3.7	158
124	A simple first-order shear deformation theory for the bending and free vibration analysis of functionally graded plates. *Composite Structures*, **2013**, 101, 332-340	5.3	151
123	A size-dependent functionally graded Reddy plate model based on a modified couple stress theory. *Composites Part B: Engineering*, **2013**, 45, 1636-1645	10	137
122	Finite element model for vibration and buckling of functionally graded sandwich beams based on a refined shear deformation theory. *Engineering Structures*, **2014**, 64, 12-22	4.7	129
121	Nonlinear static and dynamic analysis of cable structures. *Finite Elements in Analysis and Design*, **2011**, 47, 237-246	2.2	123
120	A refined shear deformation theory for free vibration of functionally graded plates on elastic foundation. *Composites Part B: Engineering*, **2012**, 43, 2335-2347	10	117
119	A simple quasi-3D sinusoidal shear deformation theory for functionally graded plates. *Composite Structures*, **2013**, 99, 172-180	5.3	117
118	Vibration and buckling analysis of functionally graded sandwich beams by a new higher-order shear deformation theory. *Composites Part B: Engineering*, **2015**, 76, 273-285	10	116
117	A new inverse trigonometric shear deformation theory for isotropic and functionally graded sandwich plates. *Composites Part B: Engineering*, **2014**, 66, 233-246	10	116
116	A simple first-order shear deformation theory for laminated composite plates. *Composite Structures*, **2013**, 106, 754-763	5.3	111

115	A simple higher-order shear deformation theory for bending and free vibration analysis of functionally graded plates. *Composite Structures*, **2013**, 96, 165-173	5.3	110
114	A quasi-3D theory for vibration and buckling of functionally graded sandwich beams. *Composite Structures*, **2015**, 119, 1-12	5.3	106
113	A refined plate theory for functionally graded plates resting on elastic foundation. *Composites Science and Technology*, **2011**, 71, 1850-1858	8.6	98
112	An efficient and simple refined theory for buckling analysis of functionally graded plates. *Applied Mathematical Modelling*, **2012**, 36, 1008-1022	4.5	96
111	Static and free vibration of axially loaded functionally graded beams based on the first-order shear deformation theory. *Composites Part B: Engineering*, **2013**, 55, 147-157	10	95
110	Size-dependent behavior of functionally graded sandwich microbeams based on the modified couple stress theory. *Composite Structures*, **2015**, 123, 337-349	5.3	94
109	A size-dependent functionally graded sinusoidal plate model based on a modified couple stress theory. *Composite Structures*, **2013**, 96, 376-383	5.3	91
108	Free vibration of laminated composite plates using two variable refined plate theory. *International Journal of Mechanical Sciences*, **2010**, 52, 626-633	5.5	90
107	Elastic properties of 3D printed fibre-reinforced structures. *Composite Structures*, **2018**, 193, 8-18	5.3	84
106	Static behaviour of functionally graded sandwich beams using a quasi-3D theory. *Composites Part B: Engineering*, **2015**, 68, 59-74	10	83
105	Static behavior of composite beams using various refined shear deformation theories. *Composite Structures*, **2012**, 94, 2513-2522	5.3	80
104	A simple refined theory for bending, buckling, and vibration of thick plates resting on elastic foundation. *International Journal of Mechanical Sciences*, **2013**, 73, 40-52	5.5	80
103	A two variable refined plate theory for laminated composite plates. *Composite Structures*, **2009**, 89, 197-205	5.95	80
102	Buckling analysis of plates using the two variable refined plate theory. *Thin-Walled Structures*, **2009**, 47, 455-462	4.7	77
101	Size-dependant behaviour of functionally graded microplates based on the modified strain gradient elasticity theory and isogeometric analysis. *Computers and Structures*, **2017**, 190, 219-241	4.5	76
100	Numerical modelling of concrete-filled steel box columns incorporating high strength materials. *Journal of Constructional Steel Research*, **2014**, 102, 256-265	3.8	74
99	Static and vibration analysis of functionally graded beams using refined shear deformation theory. *Meccanica*, **2014**, 49, 155-168	2.1	73
98	Levy-type solution for free vibration analysis of orthotropic plates based on two variable refined plate theory. *Applied Mathematical Modelling*, **2012**, 36, 3870-3882	4.5	72

97	Analytical solution of a two variable refined plate theory for bending analysis of orthotropic Levy-type plates. *International Journal of Mechanical Sciences*, **2012**, 54, 269-276	5.5	67
96	Analytical solutions of refined plate theory for bending, buckling and vibration analyses of thick plates. *Applied Mathematical Modelling*, **2013**, 37, 8310-8323	4.5	66
95	Size-dependent vibration of bi-directional functionally graded microbeams with arbitrary boundary conditions. *Composites Part B: Engineering*, **2018**, 134, 225-245	10	63
94	Vibration and buckling of composite beams using refined shear deformation theory. *International Journal of Mechanical Sciences*, **2012**, 62, 67-76	5.5	62
93	Finite element formulation of various four unknown shear deformation theories for functionally graded plates. *Finite Elements in Analysis and Design*, **2013**, 75, 50-61	2.2	57
92	Closed-form solution for buckling analysis of thick functionally graded plates on elastic foundation. *International Journal of Mechanical Sciences*, **2013**, 75, 34-44	5.5	56
91	Levy-type solution for buckling analysis of orthotropic plates based on two variable refined plate theory. *Composite Structures*, **2011**, 93, 1738-1746	5.3	56
90	An efficient shear deformation theory for vibration of functionally graded plates. *Archive of Applied Mechanics*, **2013**, 83, 137-149	2.2	51
89	A review on modular construction for high-rise buildings. *Structures*, **2020**, 28, 1265-1290	3.4	51
88	An analytical method for the vibration and buckling of functionally graded beams under mechanical and thermal loads. *Composites Part B: Engineering*, **2016**, 100, 152-163	10	50
87	A quasi-3D hyperbolic shear deformation theory for functionally graded plates. *Acta Mechanica*, **2014**, 225, 951-964	2.1	48
86	Efficient machine learning models for prediction of concrete strengths. *Construction and Building Materials*, **2021**, 266, 120950	6.7	46
85	Large deflection inelastic analysis of space trusses using generalized displacement control method. *Journal of Constructional Steel Research*, **2009**, 65, 1987-1994	3.8	43
84	Advanced analysis of multi-span suspension bridges. *Journal of Constructional Steel Research*, **2013**, 90, 29-41	3.8	42
83	Improved refined plate theory accounting for effect of thickness stretching in functionally graded plates. *Composites Part B: Engineering*, **2014**, 56, 705-716	10	42
82	Free vibration of axially loaded rectangular composite beams using refined shear deformation theory. *Composite Structures*, **2012**, 94, 3379-3387	5.3	39
81	Concrete-filled steel tubular columns: Test database, design and calibration. *Journal of Constructional Steel Research*, **2019**, 157, 161-181	3.8	38
80	A refined higher-order shear deformation theory for bending, vibration and buckling analysis of functionally graded sandwich plates. *Steel and Composite Structures*, **2015**, 18, 91-120		38

79	Ultra-high strength circular short CFST columns: Axisymmetric analysis, behaviour and design. *Engineering Structures*, **2019**, 179, 268-283	4.7	37
78	Flexural analysis of laminated composite and sandwich beams using a four-unknown shear and normal deformation theory. *Composite Structures*, **2017**, 176, 388-397	5.3	35
77	Trigonometric-series solution for analysis of laminated composite beams. *Composite Structures*, **2017**, 160, 142-151	5.3	35
76	Slenderness limits for fabricated S960 ultra-high-strength steel and composite columns. *Journal of Constructional Steel Research*, **2019**, 159, 109-121	3.8	34
75	Dynamic stability of viscoelastic porous FG nanoplate under longitudinal magnetic field via a nonlocal strain gradient quasi-3D theory. *Composites Part B: Engineering*, **2019**, 175, 107164	10	34
74	Practical advanced analysis software for nonlinear inelastic analysis of space steel structures. *Advances in Engineering Software*, **2009**, 40, 786-797	3.6	34
73	Size-dependent behaviour of functionally graded sandwich microplates under mechanical and thermal loads. *Composites Part B: Engineering*, **2017**, 124, 218-241	10	33
72	Finite element analysis of large diameter high strength octagonal CFST short columns. *Thin-Walled Structures*, **2018**, 123, 467-482	4.7	32
71	Nonlinear static and transient isogeometric analysis of functionally graded microplates based on the modified strain gradient theory. *Engineering Structures*, **2017**, 153, 598-612	4.7	31
70	A simple shear deformation theory for nonlocal beams. *Composite Structures*, **2018**, 183, 262-270	5.3	31
69	Free vibration of axially loaded composite beams using a four-unknown shear and normal deformation theory. *Composite Structures*, **2017**, 178, 406-414	5.3	31
68	Vibration and buckling analysis of functionally graded sandwich plates with improved transverse shear stiffness based on the first-order shear deformation theory. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2014**, 228, 2110-2131	1.3	31
67	ISOGEOMETRIC SIMULATION FOR BUCKLING, FREE AND FORCED VIBRATION OF ORTHOTROPIC PLATES. *International Journal of Applied Mechanics*, **2013**, 05, 1350017	2.4	31
66	Behaviour of bolted endplate composite joints to square and circular CFST columns. *Journal of Constructional Steel Research*, **2017**, 131, 68-82	3.8	30
65	Local and post-local buckling of fabricated high-strength steel and composite columns. *Journal of Constructional Steel Research*, **2019**, 154, 235-249	3.8	30
64	Hygro-thermal effects on vibration and thermal buckling behaviours of functionally graded beams. *Composite Structures*, **2017**, 176, 1050-1060	5.3	29
63	Finite element modelling of blind bolted composite joints. *Journal of Constructional Steel Research*, **2015**, 112, 339-353	3.8	29
62	Nonlinear inelastic time-history analysis of truss structures. *Journal of Constructional Steel Research*, **2011**, 67, 1966-1972	3.8	29

61	System reliability evaluation of steel frames with semi-rigid connections. *Journal of Constructional Steel Research*, **2016**, 121, 29-39	3.8	28
60	Efficient higher-order shear deformation theories for bending and free vibration analyses of functionally graded plates. *Archive of Applied Mechanics*, **2013**, 83, 1755-1771	2.2	28
59	New Ritz-solution shape functions for analysis of thermo-mechanical buckling and vibration of laminated composite beams. *Composite Structures*, **2018**, 184, 452-460	5.3	27
58	State-space Levy solution for size-dependent static, free vibration and buckling behaviours of functionally graded sandwich plates. *Composites Part B: Engineering*, **2018**, 149, 144-164	10	27
57	Rotational stiffness and moment resistance of bolted endplate joints with hollow or CFST columns. *Journal of Constructional Steel Research*, **2016**, 126, 139-152	3.8	24
56	A nonlocal sinusoidal plate model for micro/nanoscale plates. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2014**, 228, 2652-2660	1.3	24
55	Post-buckling of functionally graded microplates under mechanical and thermal loads using isogeomertic analysis. *Engineering Structures*, **2017**, 150, 905-917	4.7	23
54	A robust method for safety evaluation of steel trusses using Gradient Tree Boosting algorithm. *Advances in Engineering Software*, **2020**, 147, 102825	3.6	22
53	A new simple shear deformation plate theory. *Composite Structures*, **2017**, 171, 277-285	5.3	20
52	A modified stress-strain model accounting for the local buckling of thin-walled stub columns under axial compression. *Journal of Constructional Steel Research*, **2015**, 111, 57-69	3.8	20
51	Nonlinear inelastic dynamic analysis of suspension bridges. *Engineering Structures*, **2010**, 32, 3845-3856	4.7	19
50	Nonlinear inelastic analysis of space frames. *Journal of Constructional Steel Research*, **2011**, 67, 585-592	3.8	18
49	Machine learning-based prediction of CFST columns using gradient tree boosting algorithm. *Composite Structures*, **2021**, 259, 113505	5.3	18
48	Ritz-Based Analytical Solutions for Bending, Buckling and Vibration Behavior of Laminated Composite Beams. *International Journal of Structural Stability and Dynamics*, **2018**, 18, 1850130	1.9	17
47	Axial-flexural coupled vibration and buckling of composite beams using sinusoidal shear deformation theory. *Archive of Applied Mechanics*, **2013**, 83, 605-622	2.2	17
46	Explicit simulation of bolted endplate composite beam-to-CFST column connections. *Thin-Walled Structures*, **2017**, 119, 749-759	4.7	17
45	On viscoelastic transient response of magnetically imperfect functionally graded nanobeams. *International Journal of Engineering Science*, **2022**, 172, 103629	5.7	17
44	Behaviour of axially loaded circular concrete-filled bimetallic stainless-carbon steel tubular short columns. *Engineering Structures*, **2017**, 147, 583-597	4.7	16

43	Strength prediction of concrete-filled steel tubular columns using Categorical Gradient Boosting algorithm. *Engineering Structures*, **2021**, 238, 112109	4.7	16
42	Postbuckling analysis of functionally graded nanoplates based on nonlocal theory and isogeometric analysis. *Composite Structures*, **2018**, 201, 13-20	5.3	15
41	Practical advanced analysis software for nonlinear inelastic dynamic analysis of steel structures. *Journal of Constructional Steel Research*, **2011**, 67, 453-461	3.8	15
40	Evaluating structural response of concrete-filled steel tubular columns through machine learning. *Journal of Building Engineering*, **2021**, 34, 101888	5.2	15
39	Behaviour and design of demountable beam-to-column composite bolted joints with extended end-plates. *Journal of Constructional Steel Research*, **2018**, 144, 221-235	3.8	14
38	Application of ANN to the design of CFST columns. *Structures*, **2020**, 28, 2203-2220	3.4	14
37	Experimental and numerical behaviour of blind bolted flush endplate composite connections. *Journal of Constructional Steel Research*, **2019**, 153, 179-195	3.8	14
36	A Ritz type solution with exponential trial functions for laminated composite beams based on the modified couple stress theory. *Composite Structures*, **2018**, 191, 154-167	5.3	13
35	Levy solution for buckling analysis of functionally graded plates based on a refined plate theory. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2013**, 227, 2649-2664	1.3	13
34	Behaviour of stainless steel bolts after exposure to elevated temperatures. *Journal of Constructional Steel Research*, **2019**, 157, 371-385	3.8	12
33	Second-order inelastic analysis of cable-stayed bridges. *Finite Elements in Analysis and Design*, **2012**, 53, 48-55	2.2	12
32	Machine learning for structural engineering: A state-of-the-art review. *Structures*, **2022**, 38, 448-491	3.4	12
31	Levy solution for free vibration analysis of functionally graded plates based on a refined plate theory. *KSCE Journal of Civil Engineering*, **2014**, 18, 1813-1824	1.9	11
30	Nonlinear inelastic analysis of concrete-filled steel tubular frames. *Journal of Constructional Steel Research*, **2011**, 67, 1797-1805	3.8	11
29	Second-order inelastic dynamic analysis of steel frames using fiber hinge method. *Journal of Constructional Steel Research*, **2011**, 67, 1485-1494	3.8	11
28	StructuresNet and FireNet: Benchmarking databases and machine learning algorithms in structural and fire engineering domains. *Journal of Building Engineering*, **2021**, 44, 102977	5.2	11
27	Uncertainty quantification of the mechanical properties of lightweight concrete using micromechanical modelling. *International Journal of Mechanical Sciences*, **2020**, 173, 105468	5.5	10
26	Behaviour and design of high strength CFST columns with slender sections. *Journal of Constructional Steel Research*, **2021**, 182, 106645	3.8	10

25	A novel unified model for laminated composite beams. *Composite Structures*, **2020**, 238, 111943	5.3	9
24	Second-order distributed plasticity analysis of steel frames with semi-rigid connections. *Thin-Walled Structures*, **2015**, 94, 120-128	4.7	8
23	Finite element formulation of a refined plate theory for laminated composite plates. *Journal of Composite Materials*, **2014**, 48, 3521-3538	2.7	8
22	Analysis and design of eccentrically compressed ultra-high-strength slender CFST circular columns. *Structures*, **2020**, 27, 2481-2499	3.4	8
21	A review of the behaviour and design of steel-concrete composite shear walls. *Structures*, **2021**, 31, 1230-1253	3.4	7
20	Application of machine learning models for designing CFCFST columns. *Journal of Constructional Steel Research*, **2021**, 185, 106856	3.8	7
19	Behaviour and design calculations of rectangular CFST beam-columns with slender sections. *Engineering Structures*, **2020**, 222, 111142	4.7	6
18	Simulation of uniaxially compressed square ultra-high-strength concrete-filled steel tubular slender beam-columns. *Engineering Structures*, **2021**, 232, 111795	4.7	6
17	Reliability considerations of modern design codes for CFST columns. *Journal of Constructional Steel Research*, **2021**, 177, 106482	3.8	6
16	Review of Nonlinear Analysis and Modeling of Steel and Composite Structures. *International Journal of Structural Stability and Dynamics*, **2020**, 20, 2030003	1.9	4
15	Second-order inelastic analysis of steel suspension bridges. *Finite Elements in Analysis and Design*, **2011**, 47, 351-359	2.2	4
14	Progressive collapse and robustness of modular high-rise buildings. *Structure and Infrastructure Engineering*,1-13	2.9	4
13	Optimised mix design and elastic modulus prediction of ultra-high strength concrete. *Construction and Building Materials*, **2021**, 302, 124150	6.7	4
12	Free-vibration analysis of multi-directional functionally graded plates based on 3D isogeometric analysis. *Journal of Science and Technology in Civil Engineering (STCE) - NUCE*, **2019**, 13, 1-11	1.7	3
11	Behaviour and design of eccentrically loaded CFST columns with high strength materials and slender sections. *Journal of Constructional Steel Research*, **2022**, 188, 107004	3.8	2
10	Nonlinear inelastic simulation of high-rise buildings with innovative composite coupling shear walls and CFST columns. *Structural Design of Tall and Special Buildings*, **2021**, 30, e1883	1.8	2
9	Axial strength and elastic stiffness behaviour of partially confined concrete columns. *Construction and Building Materials*, **2019**, 196, 727-741	6.7	2
8	Application of the component method to bolted endplate composite beam-to-CFST column joints **2017**, 239-245		1

LIST OF PUBLICATIONS

7	Numerical investigations of circular double-skin steel tubular slender beam-columns filled with ultra-high-strength concrete. *Engineering Structures*, **2022**, 254, 113814	4.7	1
6	Reliability Evaluation of Eurocode 4 for Concrete-Filled Steel Tubular Columns. *Lecture Notes in Civil Engineering*, **2020**, 323-328	0.3	1
5	A novel general higher-order shear deformation theory for static, vibration and thermal buckling analysis of the functionally graded plates. *Journal of Thermal Stresses*,1-21	2.2	1
4	Prediction of the load-shortening curve of CFST columns using ANN-based models. *Journal of Building Engineering*, **2022**, 51, 104279	5.2	1
3	System reliability-based design of steel-concrete composite frames with CFST columns and composite beams. *Journal of Constructional Steel Research*, **2022**, 194, 107298	3.8	1
2	Cost-Effective Mix Design for Ultra-High Strength Concrete Up to 170 MPa. *Lecture Notes in Civil Engineering*, **2022**, 547-555	0.3	
1	Performance evaluation of steel and composite bridge safety barriers by vehicle crash simulation. *Interaction and Multiscale Mechanics*, **2010**, 3, 405-414		