Thucphuong Vo

List of Publications by Year
in descending order

87 papers	5,441 citations	76326 40 h-index	88630 70 g-index
87 all docs	87 docs citations	87 times ranked	2354 citing authors

#	Article	IF	Citations
1	Bending, buckling and free vibration behaviors of thin-walled functionally graded sandwich and composite channel-section beams. Mechanics Based Design of Structures and Machines, 2023, 51, 932-960.	4.7	9
2	Dynamic stiffness formulation for a micro beam using Timoshenko–Ehrenfest and modified couple stress theories with applications. JVC/Journal of Vibration and Control, 2023, 29, 428-439.	2.6	9
3	Free vibration of axially loaded zigzag and armchair nanobeams using doublet mechanics. Mechanics Based Design of Structures and Machines, 2023, 51, 5808-5833.	4.7	1
4	Finite element formulation of metal foam microbeams via modified strain gradient theory. Engineering With Computers, 2023, 39, 751-772.	6.1	9
5	A new two-variable shear deformation theory for bending, free vibration and buckling analysis of functionally graded porous beams. Composite Structures, 2022, 282, 115095.	5.8	32
6	Finite element model for free vibration analysis of curved zigzag nanobeams. Composite Structures, 2022, 282, 115097.	5.8	8
7	Efficient estimating compressive strength of ultra-high performance concrete using XGBoost model. Journal of Building Engineering, 2022, 52, 104302.	3.4	33
8	Deep Neural Networks for Form-Finding of Tensegrity Structures. Mathematics, 2022, 10, 1822.	2.2	7
9	Stochastic vibration and buckling analysis of functionally graded microplates with a unified higher-order shear deformation theory. Thin-Walled Structures, 2022, 177, 109473.	5.3	10
10	Efficient machine learning models for prediction of concrete strengths. Construction and Building Materials, 2021, 266, 120950.	7.2	196
11	Bending, vibration, buckling analysis of bi-directional FG porous microbeams with a variable material length scale parameter. Applied Mathematical Modelling, 2021, 91, 723-748.	4.2	30
12	A quasi-3D theory for functionally graded porous microbeams based on the modified strain gradient theory. Composite Structures, 2021, 257, 113066.	5.8	16
13	A comprehensive study on the size-dependent analysis of strain gradient multi-directional functionally graded microplates via finite element model. Aerospace Science and Technology, 2021, 111, 106550.	4.8	37
14	Finite element model for carbon nanotube-reinforced and graphene nanoplatelet-reinforced composite beams. Composite Structures, 2021, 264, 113739.	5.8	20
15	Strength prediction of concrete-filled steel tubular columns using Categorical Gradient Boosting algorithm. Engineering Structures, 2021, 238, 112109.	5.3	55
16	Heuristic algorithm-based semi-empirical formulas for estimating the compressive strength of the normal and high performance concrete. Construction and Building Materials, 2021, 304, 124467.	7.2	21
17	An improved shear deformable theory for bending and buckling response of thin-walled FG sandwich I-beams resting on the elastic foundation. Composite Structures, 2020, 254, 112823.	5.8	12
18	Review of Nonlinear Analysis and Modeling of Steel and Composite Structures. International Journal of Structural Stability and Dynamics, 2020, 20, 2030003.	2.4	8

#	Article	IF	Citations
19	A novel unified model for laminated composite beams. Composite Structures, 2020, 238, 111943.	5.8	12
20	Size-dependent behaviour of functionally graded sandwich microbeams based on the modified strain gradient theory. Composite Structures, 2020, 246, 112401.	5.8	43
21	Vibration of cracked functionally graded microplates by the strain gradient theory and extended isogeometric analysis. Engineering Structures, 2019, 187, 251-266.	5.3	37
22	Vibration and buckling behaviours of thin-walled composite and functionally graded sandwich I-beams. Composites Part B: Engineering, 2019, 166, 414-427.	12.0	34
23	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.	5.8	18
24	Bending Analysis of Laminated Composite Beams Using Hybrid Shape Functions. Lecture Notes in Mechanical Engineering, 2018, , 503-517.	0.4	1
25	Size dependent bending analysis of two directional functionally graded microbeams via a quasi-3D theory and finite element method. Composites Part B: Engineering, 2018, 144, 171-183.	12.0	60
26	Ritz-Based Analytical Solutions for Bending, Buckling and Vibration Behavior of Laminated Composite Beams. International Journal of Structural Stability and Dynamics, 2018, 18, 1850130.	2.4	25
27	Effects of surfactants on the properties of epoxy/graphene nanocomposites. Journal of Reinforced Plastics and Composites, 2018, 37, 960-967.	3.1	13
28	A shear-deformable beam model for stability analysis of orthotropic composite semi-rigid frames. Composite Structures, 2018, 189, 648-660.	5.8	3
29	A simple shear deformation theory for nonlocal beams. Composite Structures, 2018, 183, 262-270.	5.8	43
30	Size-dependent vibration of bi-directional functionally graded microbeams with arbitrary boundary conditions. Composites Part B: Engineering, 2018, 134, 225-245.	12.0	78
31	Flexural behaviour of hardwood and softwood beams with mechanically connected GFRP plates. Composite Structures, 2018, 206, 610-620.	5.8	24
32	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.	12.0	36
33	Postbuckling analysis of functionally graded nanoplates based on nonlocal theory and isogeometric analysis. Composite Structures, 2018, 201, 13-20.	5.8	18
34	A new simple shear deformation plate theory. Composite Structures, 2017, 171, 277-285.	5.8	24
35	Hygro-thermal effects on vibration and thermal buckling behaviours of functionally graded beams. Composite Structures, 2017, 176, 1050-1060.	5.8	43
36	Size-dependent behaviour of functionally graded sandwich microplates under mechanical and thermal loads. Composites Part B: Engineering, 2017, 124, 218-241.	12.0	43

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37	Flexural analysis of laminated composite and sandwich beams using a four-unknown shear and normal deformation theory. Composite Structures, 2017, 176, 388-397.	5.8	42
38	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.	4.4	98
39	Nonlinear static and transient isogeometric analysis of functionally graded microplates based on the modified strain gradient theory. Engineering Structures, 2017, 153, 598-612.	5.3	43
40	Dichlorobenzene: an effective solvent for epoxy/graphene nanocomposites preparation. Royal Society Open Science, 2017, 4, 170778.	2.4	14
41	Free vibration of axially loaded composite beams using a four-unknown shear and normal deformation theory. Composite Structures, 2017, 178, 406-414.	5.8	38
42	Explicit simulation of bolted endplate composite beam-to-CFST column connections. Thin-Walled Structures, 2017, 119, 749-759.	5.3	32
43	Geometrically nonlinear isogeometric analysis of functionally graded microplates with the modified couple stress theory. Computers and Structures, 2017, 193, 110-127.	4.4	54
44	A review of continuum mechanics models for size-dependent analysis of beams and plates. Composite Structures, 2017, 177, 196-219.	5.8	288
45	Trigonometric-series solution for analysis of laminated composite beams. Composite Structures, 2017, 160, 142-151.	5.8	51
46	A refined quasi-3D isogeometric analysis for functionally graded microplates based on the modified couple stress theory. Computer Methods in Applied Mechanics and Engineering, 2017, 313, 904-940.	6.6	222
47	N,N-Dimethylformamide (DMF) Usage in Epoxy/Graphene Nanocomposites: Problems Associated with Reaggregation. Polymers, 2017, 9, 193.	4.5	31
48	Post-buckling of functionally graded microplates under mechanical and thermal loads using isogeomertic analysis. Engineering Structures, 2017, 150, 905-917.	5.3	31
49	Static and vibration analysis of isotropic and functionally graded sandwich plates using an edge-based MITC3 finite elements. Composites Part B: Engineering, 2016, 107, 162-173.	12.0	72
50	Nonlinear buckling behaviours of thin-walled functionally graded open section beams. Composite Structures, 2016, 152, 829-839.	5.8	41
51	Size-dependent behaviour of functionally graded microbeams using various shear deformation theories based on the modified couple stress theory. Composite Structures, 2016, 154, 556-572.	5.8	56
52	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.	12.0	70
53	Analytical solution for vibration and buckling of functionally graded sandwich beams using various quasi-3D theories. Journal of Sandwich Structures and Materials, 2016, 18, 3-29.	3.5	50
54	An analytical solution for buckling and vibration analysis of functionally graded sandwich beams using a quasi-3D shear deformation theory. Composite Structures, 2016, 156, 238-252.	5.8	83

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55	Fundamental frequency analysis of functionally graded sandwich beams based on the state space approach. Composite Structures, 2016, 156, 263-275.	5.8	49
56	Vibration and lateral buckling optimisation of thin-walled laminated composite channel-section beams. Composite Structures, 2016, 143, 84-92.	5.8	16
57	Graphene Nanoplatelets in Epoxy System: Dispersion, Reaggregation, and Mechanical Properties of Nanocomposites. Journal of Nanomaterials, 2015, 2015, 1-12.	2.7	58
58	Size-dependent behavior of functionally graded sandwich microbeams based on the modified couple stress theory. Composite Structures, 2015, 123, 337-349.	5.8	106
59	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.	12.0	154
60	Epoxy/graphene nanocomposites â€" processing and properties: a review. RSC Advances, 2015, 5, 73510-73524.	3.6	188
61	Buckling analysis of thin-walled functionally graded sandwich box beams. Thin-Walled Structures, 2015, 86, 148-156.	5.3	47
62	Static behaviour of functionally graded sandwich beams using a quasi-3D theory. Composites Part B: Engineering, 2015, 68, 59-74.	12.0	119
63	A quasi-3D theory for vibration and buckling of functionally graded sandwich beams. Composite Structures, 2015, 119, 1-12.	5.8	148
64	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.	1.3	41
65	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.	2.1	35
66	Static and vibration analysis of functionally graded beams using refined shear deformation theory. Meccanica, 2014, 49, 155-168.	2.0	108
67	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.	2.1	30
68	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.	5.3	180
69	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	208
70	A quasi-3D hyperbolic shear deformation theory for functionally graded plates. Acta Mechanica, 2014, 225, 951-964.	2.1	58
71	Structural health monitoring capabilities in ceramicâ€"carbon nanocomposites. Ceramics International, 2014, 40, 3793-3798.	4.8	24
72	Structural stability studies of graphene in sintered ceramic nanocomposites. Ceramics International, 2014, 40, 16227-16233.	4.8	45

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73	A new inverse trigonometric shear deformation theory for isotropic and functionally graded sandwich plates. Composites Part B: Engineering, 2014, 66, 233-246.	12.0	145
74	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.	12.0	132
75	Effect of carbon nanotube lengths on the mechanical properties of epoxy resin: An experimental study. Journal of Composite Materials, 2013, 47, 2321-2330.	2.4	36
76	Axial-flexural coupled vibration and buckling of composite beams using sinusoidal shear deformation theory. Archive of Applied Mechanics, 2013, 83, 605-622.	2.2	20
77	A new sinusoidal shear deformation theory for bending, buckling, and vibration of functionally graded plates. Applied Mathematical Modelling, 2013, 37, 3269-3281.	4.2	213
78	Modelling of the low-impulse blast behaviour of fibre–metal laminates based on different aluminium alloys. Composites Part B: Engineering, 2013, 44, 141-151.	12.0	68
79	A size-dependent functionally graded sinusoidal plate model based on a modified couple stress theory. Composite Structures, 2013, 96, 376-383.	5.8	99
80	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.	6.7	329
81	Vibration and buckling of composite beams using refined shear deformation theory. International Journal of Mechanical Sciences, 2012, 62, 67-76.	6.7	68
82	Free vibration of axially loaded rectangular composite beams using refined shear deformation theory. Composite Structures, 2012, 94, 3379-3387.	5.8	40
83	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.	5.0	194
84	Static behavior of composite beams using various refined shear deformation theories. Composite Structures, 2012, 94, 2513-2522.	5.8	95
85	Comments on the article: "A new FE model based on higher order zigzag theory for the analysis of laminated sandwich beam with soft core", by A. Chakrabarti, H. Chalak, M.A. Iqbal, A.H. Sheikh [Composite Structures 93 (2011) 271–279]. Composite Structures, 2012, 94, 2666.	5.8	0
86	A novel general higher-order shear deformation theory for static, vibration and thermal buckling analysis of the functionally graded plates. Journal of Thermal Stresses, 0, , 1-21.	2.0	4
87	Effects of design parameters on the static responses of two-way beam string structure. Mechanics Based Design of Structures and Machines, 0, , 1-19.	4.7	0