

# Thucphuong Vo

## List of Publications by Year in descending order

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87  
papers

5,441  
citations

87401

40  
h-index

100535

70  
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87  
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87  
docs citations

87  
times ranked

2682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending, buckling and free vibration behaviors of thin-walled functionally graded sandwich and composite channel-section beams. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 932-960.	3.4	9
2	Dynamic stiffness formulation for a micro beam using Timoshenko's Ehrenfest and modified couple stress theories with applications. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 428-439.	1.5	9
3	Free vibration of axially loaded zigzag and armchair nanobeams using doublet mechanics. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 5808-5833.	3.4	1
4	Finite element formulation of metal foam microbeams via modified strain gradient theory. <i>Engineering With Computers</i> , 2023, 39, 751-772.	3.5	9
5	A new two-variable shear deformation theory for bending, free vibration and buckling analysis of functionally graded porous beams. <i>Composite Structures</i> , 2022, 282, 115095.	3.1	32
6	Finite element model for free vibration analysis of curved zigzag nanobeams. <i>Composite Structures</i> , 2022, 282, 115097.	3.1	8
7	Efficient estimating compressive strength of ultra-high performance concrete using XGBoost model. <i>Journal of Building Engineering</i> , 2022, 52, 104302.	1.6	33
8	Deep Neural Networks for Form-Finding of Tensegrity Structures. <i>Mathematics</i> , 2022, 10, 1822.	1.1	7
9	Stochastic vibration and buckling analysis of functionally graded microplates with a unified higher-order shear deformation theory. <i>Thin-Walled Structures</i> , 2022, 177, 109473.	2.7	10
10	Efficient machine learning models for prediction of concrete strengths. <i>Construction and Building Materials</i> , 2021, 266, 120950.	3.2	196
11	Bending, vibration, buckling analysis of bi-directional FG porous microbeams with a variable material length scale parameter. <i>Applied Mathematical Modelling</i> , 2021, 91, 723-748.	2.2	30
12	A quasi-3D theory for functionally graded porous microbeams based on the modified strain gradient theory. <i>Composite Structures</i> , 2021, 257, 113066.	3.1	16
13	A comprehensive study on the size-dependent analysis of strain gradient multi-directional functionally graded microplates via finite element model. <i>Aerospace Science and Technology</i> , 2021, 111, 106550.	2.5	37
14	Finite element model for carbon nanotube-reinforced and graphene nanoplatelet-reinforced composite beams. <i>Composite Structures</i> , 2021, 264, 113739.	3.1	20
15	Strength prediction of concrete-filled steel tubular columns using Categorical Gradient Boosting algorithm. <i>Engineering Structures</i> , 2021, 238, 112109.	2.6	55
16	Heuristic algorithm-based semi-empirical formulas for estimating the compressive strength of the normal and high performance concrete. <i>Construction and Building Materials</i> , 2021, 304, 124467.	3.2	21
17	An improved shear deformable theory for bending and buckling response of thin-walled FG sandwich I-beams resting on the elastic foundation. <i>Composite Structures</i> , 2020, 254, 112823.	3.1	12
18	Review of Nonlinear Analysis and Modeling of Steel and Composite Structures. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2030003.	1.5	8

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19	A novel unified model for laminated composite beams. <i>Composite Structures</i> , 2020, 238, 111943.	3.1	12
20	Size-dependent behaviour of functionally graded sandwich microbeams based on the modified strain gradient theory. <i>Composite Structures</i> , 2020, 246, 112401.	3.1	43
21	Vibration of cracked functionally graded microplates by the strain gradient theory and extended isogeometric analysis. <i>Engineering Structures</i> , 2019, 187, 251-266.	2.6	37
22	Vibration and buckling behaviours of thin-walled composite and functionally graded sandwich I-beams. <i>Composites Part B: Engineering</i> , 2019, 166, 414-427.	5.9	34
23	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.	3.1	18
24	Bending Analysis of Laminated Composite Beams Using Hybrid Shape Functions. <i>Lecture Notes in Mechanical Engineering</i> , 2018, , 503-517.	0.3	1
25	Size dependent bending analysis of two directional functionally graded microbeams via a quasi-3D theory and finite element method. <i>Composites Part B: Engineering</i> , 2018, 144, 171-183.	5.9	60
26	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.	1.5	25
27	Effects of surfactants on the properties of epoxy/graphene nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2018, 37, 960-967.	1.6	13
28	A shear-deformable beam model for stability analysis of orthotropic composite semi-rigid frames. <i>Composite Structures</i> , 2018, 189, 648-660.	3.1	3
29	A simple shear deformation theory for nonlocal beams. <i>Composite Structures</i> , 2018, 183, 262-270.	3.1	43
30	Size-dependent vibration of bi-directional functionally graded microbeams with arbitrary boundary conditions. <i>Composites Part B: Engineering</i> , 2018, 134, 225-245.	5.9	78
31	Flexural behaviour of hardwood and softwood beams with mechanically connected GFRP plates. <i>Composite Structures</i> , 2018, 206, 610-620.	3.1	24
32	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.	5.9	36
33	Postbuckling analysis of functionally graded nanoplates based on nonlocal theory and isogeometric analysis. <i>Composite Structures</i> , 2018, 201, 13-20.	3.1	18
34	A new simple shear deformation plate theory. <i>Composite Structures</i> , 2017, 171, 277-285.	3.1	24
35	Hygro-thermal effects on vibration and thermal buckling behaviours of functionally graded beams. <i>Composite Structures</i> , 2017, 176, 1050-1060.	3.1	43
36	Size-dependent behaviour of functionally graded sandwich microplates under mechanical and thermal loads. <i>Composites Part B: Engineering</i> , 2017, 124, 218-241.	5.9	43

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37	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.	3.1	42
38	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.	2.4	98
39	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.	2.6	43
40	Dichlorobenzene: an effective solvent for epoxy/graphene nanocomposites preparation. <i>Royal Society Open Science</i> , 2017, 4, 170778.	1.1	14
41	Free vibration of axially loaded composite beams using a four-unknown shear and normal deformation theory. <i>Composite Structures</i> , 2017, 178, 406-414.	3.1	38
42	Explicit simulation of bolted endplate composite beam-to-CFST column connections. <i>Thin-Walled Structures</i> , 2017, 119, 749-759.	2.7	32
43	Geometrically nonlinear isogeometric analysis of functionally graded microplates with the modified couple stress theory. <i>Computers and Structures</i> , 2017, 193, 110-127.	2.4	54
44	A review of continuum mechanics models for size-dependent analysis of beams and plates. <i>Composite Structures</i> , 2017, 177, 196-219.	3.1	288
45	Trigonometric-series solution for analysis of laminated composite beams. <i>Composite Structures</i> , 2017, 160, 142-151.	3.1	51
46	A refined quasi-3D isogeometric analysis for functionally graded microplates based on the modified couple stress theory. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 313, 904-940.	3.4	222
47	N,N-Dimethylformamide (DMF) Usage in Epoxy/Graphene Nanocomposites: Problems Associated with Reaggregation. <i>Polymers</i> , 2017, 9, 193.	2.0	31
48	Post-buckling of functionally graded microplates under mechanical and thermal loads using isogeometric analysis. <i>Engineering Structures</i> , 2017, 150, 905-917.	2.6	31
49	Static and vibration analysis of isotropic and functionally graded sandwich plates using an edge-based MITC3 finite elements. <i>Composites Part B: Engineering</i> , 2016, 107, 162-173.	5.9	72
50	Nonlinear buckling behaviours of thin-walled functionally graded open section beams. <i>Composite Structures</i> , 2016, 152, 829-839.	3.1	41
51	Size-dependent behaviour of functionally graded microbeams using various shear deformation theories based on the modified couple stress theory. <i>Composite Structures</i> , 2016, 154, 556-572.	3.1	56
52	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.	5.9	70
53	Analytical solution for vibration and buckling of functionally graded sandwich beams using various quasi-3D theories. <i>Journal of Sandwich Structures and Materials</i> , 2016, 18, 3-29.	2.0	50
54	An analytical solution for buckling and vibration analysis of functionally graded sandwich beams using a quasi-3D shear deformation theory. <i>Composite Structures</i> , 2016, 156, 238-252.	3.1	83

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55	Fundamental frequency analysis of functionally graded sandwich beams based on the state space approach. <i>Composite Structures</i> , 2016, 156, 263-275.	3.1	49
56	Vibration and lateral buckling optimisation of thin-walled laminated composite channel-section beams. <i>Composite Structures</i> , 2016, 143, 84-92.	3.1	16
57	Graphene Nanoplatelets in Epoxy System: Dispersion, Reaggregation, and Mechanical Properties of Nanocomposites. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-12.	1.5	58
58	Size-dependent behavior of functionally graded sandwich microbeams based on the modified couple stress theory. <i>Composite Structures</i> , 2015, 123, 337-349.	3.1	106
59	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.	5.9	154
60	Epoxy/graphene nanocomposites – processing and properties: a review. <i>RSC Advances</i> , 2015, 5, 73510-73524.	1.7	188
61	Buckling analysis of thin-walled functionally graded sandwich box beams. <i>Thin-Walled Structures</i> , 2015, 86, 148-156.	2.7	47
62	Static behaviour of functionally graded sandwich beams using a quasi-3D theory. <i>Composites Part B: Engineering</i> , 2015, 68, 59-74.	5.9	119
63	A quasi-3D theory for vibration and buckling of functionally graded sandwich beams. <i>Composite Structures</i> , 2015, 119, 1-12.	3.1	148
64	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.	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. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 2110-2131.	1.1	35
66	Static and vibration analysis of functionally graded beams using refined shear deformation theory. <i>Meccanica</i> , 2014, 49, 155-168.	1.2	108
67	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.	1.1	30
68	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.	2.6	180
69	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.	2.1	208
70	A quasi-3D hyperbolic shear deformation theory for functionally graded plates. <i>Acta Mechanica</i> , 2014, 225, 951-964.	1.1	58
71	Structural health monitoring capabilities in ceramic-carbon nanocomposites. <i>Ceramics International</i> , 2014, 40, 3793-3798.	2.3	24
72	Structural stability studies of graphene in sintered ceramic nanocomposites. <i>Ceramics International</i> , 2014, 40, 16227-16233.	2.3	45

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73	A new inverse trigonometric shear deformation theory for isotropic and functionally graded sandwich plates. <i>Composites Part B: Engineering</i> , 2014, 66, 233-246.	5.9	145
74	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.	5.9	132
75	Effect of carbon nanotube lengths on the mechanical properties of epoxy resin: An experimental study. <i>Journal of Composite Materials</i> , 2013, 47, 2321-2330.	1.2	36
76	Axial-flexural coupled vibration and buckling of composite beams using sinusoidal shear deformation theory. <i>Archive of Applied Mechanics</i> , 2013, 83, 605-622.	1.2	20
77	A new sinusoidal shear deformation theory for bending, buckling, and vibration of functionally graded plates. <i>Applied Mathematical Modelling</i> , 2013, 37, 3269-3281.	2.2	213
78	Modelling of the low-impulse blast behaviour of fibre-metal laminates based on different aluminium alloys. <i>Composites Part B: Engineering</i> , 2013, 44, 141-151.	5.9	68
79	A size-dependent functionally graded sinusoidal plate model based on a modified couple stress theory. <i>Composite Structures</i> , 2013, 96, 376-383.	3.1	99
80	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.	3.6	329
81	Vibration and buckling of composite beams using refined shear deformation theory. <i>International Journal of Mechanical Sciences</i> , 2012, 62, 67-76.	3.6	68
82	Free vibration of axially loaded rectangular composite beams using refined shear deformation theory. <i>Composite Structures</i> , 2012, 94, 3379-3387.	3.1	40
83	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.	2.7	194
84	Static behavior of composite beams using various refined shear deformation theories. <i>Composite Structures</i> , 2012, 94, 2513-2522.	3.1	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 [ <i>Composite Structures</i> 93 (2011) 271-279]. <i>Composite Structures</i> , 2012, 94, 2666.	3.1	0
86	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> , 0, , 1-21.	1.1	4
87	Effects of design parameters on the static responses of two-way beam string structure. <i>Mechanics Based Design of Structures and Machines</i> , 0, , 1-19.	3.4	0