Jalal Torabi

List of Publications by Year
in descending order

49	1,863	218381	264894
papers	citations	26 h-index	42 g-index

50	50	50	863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Static and dynamic analysis of third-order shear deformation FG micro beam based on modified couple stress theory. International Journal of Mechanical Sciences, 2012, 57, 63-73.	3.6	176
2	Numerical study on the buckling and vibration of functionally graded carbon nanotube-reinforced composite conical shells under axial loading. Composites Part B: Engineering, 2016, 95, 196-208.	5.9	147
3	Buckling and vibration analysis of embedded functionally graded carbon nanotube-reinforced composite annular sector plates under thermal loading. Composites Part B: Engineering, 2017, 109, 197-213.	5.9	131
4	Vibrational analysis of functionally graded carbon nanotube-reinforced composite spherical shells resting on elastic foundation using the variational differential quadrature method. European Journal of Mechanics, A/Solids, 2016, 60, 166-182.	2.1	89
5	Numerical study on the thermal buckling analysis of CNT-reinforced composite plates with different shapes based on the higher-order shear deformation theory. European Journal of Mechanics, A/Solids, 2019, 73, 144-160.	2.1	78
6	Linear thermal buckling analysis of truncated hybrid FGM conical shells. Composites Part B: Engineering, 2013, 50, 265-272.	5.9	73
7	A comprehensive study on the free vibration of arbitrary shaped thick functionally graded CNT-reinforced composite plates. Engineering Structures, 2019, 181, 653-669.	2.6	65
8	Axisymmetric nonlinear vibration analysis of sandwich annular plates with FG-CNTRC face sheets based on the higher-order shear deformation plate theory. Aerospace Science and Technology, 2018, 77, 306-319.	2.5	62
9	Bending analysis of embedded nanoplates based on the integral formulation of Eringen's nonlocal theory using the finite element method. Physica B: Condensed Matter, 2018, 534, 90-97.	1.3	57
10	Vibration analysis of functionally graded carbon nanotube-reinforced composite elliptical plates using a numerical strategy. Aerospace Science and Technology, 2017, 60, 152-161.	2.5	56
11	Nonlinear free vibration analysis of thermally induced FG-CNTRC annular plates: Asymmetric versus axisymmetric study. Computer Methods in Applied Mechanics and Engineering, 2017, 324, 327-347.	3.4	53
12	Free vibration analysis of embedded functionally graded carbon nanotube-reinforced composite conical/cylindrical shells and annular plates using a numerical approach. JVC/Journal of Vibration and Control, 2018, 24, 1123-1144.	1.5	52
13	Nonlinear vibration response of higher-order shear deformable FG-CNTRC conical shells. Composite Structures, 2019, 222, 110906.	3.1	48
14	Buckling analysis of axially-loaded functionally graded carbon nanotube-reinforced composite conical panels using a novel numerical variational method. Composite Structures, 2016, 157, 398-411.	3.1	46
15	In-plane and shear buckling analysis of FG-CNTRC annular sector plates based on the third-order shear deformation theory using a numerical approach. Computers and Mathematics With Applications, 2018, 75, 486-502.	1.4	39
16	Postbuckling analysis of axially-loaded functionally graded GPL-reinforced composite conical shells. Thin-Walled Structures, 2020, 148, 106594.	2.7	39
17	A novel numerical solution strategy for solving nonlinear free and forced vibration problems of cylindrical shells. Applied Mathematical Modelling, 2018, 53, 653-672.	2.2	35
18	A <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mi>C</mml:mi></mml:mrow><mml:mrow><mml:mn>1</mml:mn></mml:mr continuous hexahedral element for nonlinear vibration analysis of nano-plates with circular cutout based on 3D strain gradient theory. Composite Structures, 2018, 205, 69-85.	3.1	35

#	Article	IF	Citations
19	Nonlinear Forced Vibration Analysis of FG-CNTRC Cylindrical Shells Under Thermal Loading Using a Numerical Strategy. International Journal of Applied Mechanics, 2017, 09, 1750108.	1.3	33
20	A higher-order isoparametric superelement for free vibration analysis of functionally graded shells of revolution. Thin-Walled Structures, 2018, 133, 169-179.	2.7	33
21	Semi-analytical postbuckling analysis of polymer nanocomposite cylindrical shells reinforced with functionally graded graphene platelets. Thin-Walled Structures, 2019, 144, 106248.	2.7	33
22	Thermal buckling analysis of temperature-dependent FG-CNTRC quadrilateral plates. Computers and Mathematics With Applications, 2019, 77, 1294-1311.	1.4	33
23	Application of a non-conforming tetrahedral element in the context of the three-dimensional strain gradient elasticity. Computer Methods in Applied Mechanics and Engineering, 2019, 344, 1124-1143.	3.4	33
24	Nonlocal vibration analysis of circular double-layered graphene sheets resting on an elastic foundation subjected to thermal loading. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 841-853.	1.5	31
25	Numerical study on the free vibration of carbon nanocones resting on elastic foundation using nonlocal shell model. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	29
26	Nonlinear free and forced vibration analysis of FGâ€CNTRC annular sector plates. Polymer Composites, 2019, 40, E1364.	2.3	27
27	Dynamic and pull-in instability analyses of functionally graded nanoplates via nonlocal strain gradient theory. Mechanics Based Design of Structures and Machines, 2022, 50, 588-608.	3.4	27
28	An efficient numerical method for analyzing the thermal effects on the vibration of embedded single-walled carbon nanotubes based on the nonlocal shell model. Mechanics of Advanced Materials and Structures, 2018, 25, 500-511.	1.5	25
29	Vibration analysis of pressurized sandwich FG-CNTRC cylindrical shells based on the higher-order shear deformation theory. Materials Research Express, 2019, 6, 045049.	0.8	25
30	Mixed-type formulation of higher-order shear deformation theory for vibration and buckling analysis of FG-GPLRC plates using VDQFEM. Composite Structures, 2020, 235, 111738.	3.1	25
31	Microarchitecture-dependent nonlinear bending analysis for cellular plates with prismatic corrugated cores via an anisotropic strain gradient plate theory of first-order shear deformation. Engineering Structures, 2021, 236, 112117.	2.6	24
32	Nonlinear free and forced vibration analysis of Timoshenko nanobeams based on Mindlin's second strain gradient theory. European Journal of Mechanics, A/Solids, 2019, 73, 268-281.	2.1	21
33	Nonlinear finite element analysis within strain gradient elasticity: Reissner-Mindlin plate theory versus three-dimensional theory. European Journal of Mechanics, A/Solids, 2021, 87, 104221.	2.1	21
34	Vibration analysis of FG-CNTRC plates with an arbitrarily shaped cutout based on the variational differential quadrature finite element method. Materials Research Express, 2019, 6, 125086.	0.8	17
35	Mechanical buckling analyses of sandwich annular plates with functionally graded carbon nanotube-reinforced composite face sheets resting on elastic foundation based on the higher-order shear deformation plate theory. Journal of Sandwich Structures and Materials, 2020, 22, 1812-1837.	2.0	16
36	Numerical phase-field vibration analysis of cracked functionally graded GPL-RC plates. Mechanics Based Design of Structures and Machines, 2022, 50, 3491-3510.	3.4	15

#	Article	IF	Citations
37	An integral nonlocal model for the free vibration analysis of Mindlin nanoplates using the VDQ method. European Physical Journal Plus, 2020, 135, 1.	1.2	15
38	Numerical investigation on the buckling and vibration of cracked FG cylindrical panels based on the phase-field formulation. Engineering Fracture Mechanics, 2020, 228, 106895.	2.0	13
39	Crack propagation in functionally graded 2D structures: A finite element phase-field study. Thin-Walled Structures, 2020, 151, 106734.	2.7	13
40	An analytical treatment for pull-in instability of circular nanoplates based on the nonlocal strain gradient theory with clamped boundary condition. Materials Research Express, 2019, 6, 0950b3.	0.8	10
41	Nonlocal Strain Gradient Pull-in Study of Nanobeams Considering Various Boundary Conditions. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2021, 45, 891-909.	0.8	9
42	Second Strain Gradient Finite Element Analysis of Vibratory Nanostructures Based on the Three-Dimensional Elasticity Theory. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2020, 44, 631-645.	0.8	8
43	Effect of external pressure on the vibration analysis of higher order shear deformable FG-CNTRC spherical panels. Engineering With Computers, 2020, , 1.	3.5	8
44	Nonlinear electromechanical analysis of micro/nanobeams based on the nonlocal strain gradient theory tuned by flexoelectric and piezoelectric effects. Mechanics Based Design of Structures and Machines, 2023, 51, 179-198.	3.4	8
45	Geometrically Nonlinear Electromechanical Instability of FG Nanobeams by Nonlocal Strain Gradient Theory. International Journal of Structural Stability and Dynamics, 2021, 21, 2150051.	1.5	7
46	Effects of geometric nonlinearity on the pull-in instability of circular microplates based on modified strain gradient theory. Physica Scripta, 2020, 95, 115204.	1.2	7
47	Nonlinear Pull-in Instability of Rectangular Nanoplates Based on the Positive and Negative Second-Order Strain Gradient Theories with Various Edge Supports. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2020, 75, 317-331.	0.7	6
48	Thermal Buckling of Carbon Nanocones Based on the Nonlocal Shell Model. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 723-732.	0.8	5
49	Multiâ€patch variational differential quadrature method for shearâ€deformable strain gradient plates. International Journal for Numerical Methods in Engineering, 2022, 123, 2309-2337.	1.5	5