

# Jalal Torabi

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,863  
citations

218592

26  
h-index

265120

42  
g-index

50  
all docs

50  
docs citations

50  
times ranked

863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear electromechanical analysis of micro/nanobeams based on the nonlocal strain gradient theory tuned by flexoelectric and piezoelectric effects. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 179-198.	3.4	8
2	Numerical phase-field vibration analysis of cracked functionally graded GPL-RC plates. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 3491-3510.	3.4	15
3	Dynamic and pull-in instability analyses of functionally graded nanoplates via nonlocal strain gradient theory. <i>Mechanics Based Design of Structures and Machines</i> , 2022, 50, 588-608.	3.4	27
4	Multi-patch variational differential quadrature method for shear-deformable strain gradient plates. <i>International Journal for Numerical Methods in Engineering</i> , 2022, 123, 2309-2337.	1.5	5
5	Nonlocal Strain Gradient Pull-in Study of Nanobeams Considering Various Boundary Conditions. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2021, 45, 891-909.	0.8	9
6	Geometrically Nonlinear Electromechanical Instability of FG Nanobeams by Nonlocal Strain Gradient Theory. <i>International Journal of Structural Stability and Dynamics</i> , 2021, 21, 2150051.	1.5	7
7	Nonlinear finite element analysis within strain gradient elasticity: Reissner-Mindlin plate theory versus three-dimensional theory. <i>European Journal of Mechanics, A/Solids</i> , 2021, 87, 104221.	2.1	21
8	Microarchitecture-dependent nonlinear bending analysis for cellular plates with prismatic corrugated cores via an anisotropic strain gradient plate theory of first-order shear deformation. <i>Engineering Structures</i> , 2021, 236, 112117.	2.6	24
9	Second Strain Gradient Finite Element Analysis of Vibratory Nanostructures Based on the Three-Dimensional Elasticity Theory. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020, 44, 631-645.	0.8	8
10	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. <i>Journal of Sandwich Structures and Materials</i> , 2020, 22, 1812-1837.	2.0	16
11	Mixed-type formulation of higher-order shear deformation theory for vibration and buckling analysis of FG-GPLRC plates using VDQFEM. <i>Composite Structures</i> , 2020, 235, 111738.	3.1	25
12	Effect of external pressure on the vibration analysis of higher order shear deformable FG-CNTRC spherical panels. <i>Engineering With Computers</i> , 2020, , 1.	3.5	8
13	An integral nonlocal model for the free vibration analysis of Mindlin nanoplates using the VDQ method. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	15
14	Numerical investigation on the buckling and vibration of cracked FG cylindrical panels based on the phase-field formulation. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106895.	2.0	13
15	Crack propagation in functionally graded 2D structures: A finite element phase-field study. <i>Thin-Walled Structures</i> , 2020, 151, 106734.	2.7	13
16	Postbuckling analysis of axially-loaded functionally graded GPL-reinforced composite conical shells. <i>Thin-Walled Structures</i> , 2020, 148, 106594.	2.7	39
17	Effects of geometric nonlinearity on the pull-in instability of circular microplates based on modified strain gradient theory. <i>Physica Scripta</i> , 2020, 95, 115204.	1.2	7
18	Nonlinear Pull-in Instability of Rectangular Nanoplates Based on the Positive and Negative Second-Order Strain Gradient Theories with Various Edge Supports. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2020, 75, 317-331.	0.7	6

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19	Numerical study on the thermal buckling analysis of CNT-reinforced composite plates with different shapes based on the higher-order shear deformation theory. <i>European Journal of Mechanics, A/Solids</i> , 2019, 73, 144-160.	2.1	78
20	Thermal Buckling of Carbon Nanocones Based on the Nonlocal Shell Model. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019, 43, 723-732.	0.8	5
21	An analytical treatment for pull-in instability of circular nanoplates based on the nonlocal strain gradient theory with clamped boundary condition. <i>Materials Research Express</i> , 2019, 6, 0950b3.	0.8	10
22	Semi-analytical postbuckling analysis of polymer nanocomposite cylindrical shells reinforced with functionally graded graphene platelets. <i>Thin-Walled Structures</i> , 2019, 144, 106248.	2.7	33
23	Nonlinear vibration response of higher-order shear deformable FG-CNTRC conical shells. <i>Composite Structures</i> , 2019, 222, 110906.	3.1	48
24	Vibration analysis of FG-CNTRC plates with an arbitrarily shaped cutout based on the variational differential quadrature finite element method. <i>Materials Research Express</i> , 2019, 6, 125086.	0.8	17
25	A comprehensive study on the free vibration of arbitrary shaped thick functionally graded CNT-reinforced composite plates. <i>Engineering Structures</i> , 2019, 181, 653-669.	2.6	65
26	Thermal buckling analysis of temperature-dependent FG-CNTRC quadrilateral plates. <i>Computers and Mathematics With Applications</i> , 2019, 77, 1294-1311.	1.4	33
27	Vibration analysis of pressurized sandwich FG-CNTRC cylindrical shells based on the higher-order shear deformation theory. <i>Materials Research Express</i> , 2019, 6, 045049.	0.8	25
28	Nonlinear free and forced vibration analysis of FG-CNTRC annular sector plates. <i>Polymer Composites</i> , 2019, 40, E1364.	2.3	27
29	Application of a non-conforming tetrahedral element in the context of the three-dimensional strain gradient elasticity. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 344, 1124-1143.	3.4	33
30	Nonlinear free and forced vibration analysis of Timoshenko nanobeams based on Mindlin's second strain gradient theory. <i>European Journal of Mechanics, A/Solids</i> , 2019, 73, 268-281.	2.1	21
31	Axisymmetric nonlinear vibration analysis of sandwich annular plates with FG-CNTRC face sheets based on the higher-order shear deformation plate theory. <i>Aerospace Science and Technology</i> , 2018, 77, 306-319.	2.5	62
32	Bending analysis of embedded nanoplates based on the integral formulation of Eringen's nonlocal theory using the finite element method. <i>Physica B: Condensed Matter</i> , 2018, 534, 90-97.	1.3	57
33	Free vibration analysis of embedded functionally graded carbon nanotube-reinforced composite conical/cylindrical shells and annular plates using a numerical approach. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 1123-1144.	1.5	52
34	An efficient numerical method for analyzing the thermal effects on the vibration of embedded single-walled carbon nanotubes based on the nonlocal shell model. <i>Mechanics of Advanced Materials and Structures</i> , 2018, 25, 500-511.	1.5	25
35	In-plane and shear buckling analysis of FG-CNTRC annular sector plates based on the third-order shear deformation theory using a numerical approach. <i>Computers and Mathematics With Applications</i> , 2018, 75, 486-502.	1.4	39
36	A novel numerical solution strategy for solving nonlinear free and forced vibration problems of cylindrical shells. <i>Applied Mathematical Modelling</i> , 2018, 53, 653-672.	2.2	35

