A M Fattahi

List of Publications by Citations

40 papers	803 citations	19 h-index	27 g-index
42 ext. papers	917 ext. citations	2.4 avg, IF	5.53 L-index

#	Paper	IF	Citations
40	Small scale effects on buckling and postbuckling behaviors of axially loaded FGM nanoshells based on nonlocal strain gradient elasticity theory. *Applied Mathematics and Mechanics (English Edition)*, **2018**, 39, 561-580	3.2	57
39	Analytical mathematical solution for vibrational response of postbuckled laminated FG-GPLRC nonlocal strain gradient micro-/nanobeams. *Engineering With Computers*, **2019**, 35, 1173-1189	4.5	54
38	Nonlocal strain gradient beam model for nonlinear secondary resonance analysis of functionally graded porous micro/nano-beams under periodic hard excitations. *Mechanics Based Design of Structures and Machines*, **2020**, 48, 403-432	1.7	45
37	Surface elastic shell model for nonlinear primary resonant dynamics of FG porous nanoshells incorporating modal interactions. *International Journal of Mechanical Sciences*, **2020**, 165, 105203	5.5	42
36	Free vibration analysis of polyethylene/CNT plates. *European Physical Journal Plus*, **2019**, 134, 1	3.1	39
35	Finite element study on elastic transition in platelet reinforced composites. *Microsystem Technologies*, **2018**, 24, 2663-2671	1.7	39
34	A comparison for the non-classical plate model based on axial buckling of single-layered graphene sheets. *European Physical Journal Plus*, **2019**, 134, 1	3.1	37
33	Calibration of developed nonlocal anisotropic shear deformable plate model for uniaxial instability of 3D metallic carbon nanosheets using MD simulations. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 322, 187-207	5.7	32
32	Nonlocal size dependency in nonlinear instability of axially loaded exponential shear deformable FG-CNT reinforced nanoshells under heat conduction. *European Physical Journal Plus*, **2017**, 132, 1	3.1	29
31	Nonlocal temperature-dependent postbuckling behavior of FG-CNT reinforced nanoshells under hydrostatic pressure combined with heat conduction. *Microsystem Technologies*, **2017**, 23, 5121-5137	1.7	28
30	Radial postbuckling of nanoscaled shells embedded in elastic foundations based on Ru's surface stress elasticity theory. *Mechanics Based Design of Structures and Machines*, **2019**, 47, 787-806	1.7	28
29	Buckling analysis of CNT-reinforced beams with arbitrary boundary conditions. *Microsystem Technologies*, **2017**, 23, 5079-5091	1.7	27
28	Imperfection sensitivity of the size-dependent nonlinear instability of axially loaded FGM nanopanels in thermal environments. *Acta Mechanica*, **2017**, 228, 3789-3810	2.1	27
27	An anisotropic calibrated nonlocal plate model for biaxial instability analysis of 3D metallic carbon nanosheets using molecular dynamics simulations. *Materials Research Express*, **2017**, 4, 065001	1.7	26
26	Development an efficient calibrated nonlocal plate model for nonlinear axial instability of zirconia nanosheets using molecular dynamics simulation. *Journal of Molecular Graphics and Modelling*, **2017**, 75, 20-31	2.8	24
25	Analytical treatment on the nonlocal strain gradient vibrational response of postbuckled functionally graded porous micro-/nanoplates reinforced with GPL. *Engineering With Computers*, **2020**, 36, 1559-1578	4.5	24
24	Develop a refined truncated cubic lattice structure for nonlinear large-amplitude vibrations of micro/nano-beams made of nanoporous materials. *Engineering With Computers*, **2020**, 36, 359-375	4.5	23

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23	Size Dependency in the Axial Postbuckling Behavior of Nanopanels Made of Functionally Graded Material Considering Surface Elasticity. *Arabian Journal for Science and Engineering*, **2017**, 42, 4617-4633	2.5	21
22	Development of efficient size-dependent plate models for axial buckling of single-layered graphene nanosheets using molecular dynamics simulation. *Microsystem Technologies*, **2018**, 24, 1265-1277	1.7	20
21	Size-dependent nonlinear instability of shear deformable cylindrical nanopanels subjected to axial compression in thermal environments. *Microsystem Technologies*, **2017**, 23, 4717-4731	1.7	18
20	Size-dependent nonlinear forced oscillation of self-assembled nanotubules based on the nonlocal strain gradient beam model. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **2019**, 41, 1	2	17
19	Nonlinear torsional buckling and postbuckling analysis of cylindrical silicon nanoshells incorporating surface free energy effects. *Microsystem Technologies*, **2019**, 25, 3533-3546	1.7	16
18	Thermo-electro-mechanical size-dependent postbuckling response of axially loaded piezoelectric shear deformable nanoshells via nonlocal elasticity theory. *Microsystem Technologies*, **2017**, 23, 5105-5119	1.7	15
17	A finite element method for modal analysis of FGM plates. *Mechanics Based Design of Structures and Machines*, **2020**, 1-12	1.7	15
16	Experimental and numerical study on HDPE/SWCNT nanocomposite elastic properties considering the processing techniques effect. *Microsystem Technologies*, **2020**, 26, 2423-2441	1.7	15
15	Nonlinear Vibrational Analysis of Nanobeams Embedded in an Elastic Medium including Surface Stress Effects. *Advances in Materials Science and Engineering*, **2015**, 2015, 1-7	1.5	15
14	Non-classical plate model for FGMs. *Engineering With Computers*, **2019**, 35, 215-228	4.5	11
13	Numerical prediction of elastic properties for carbon nanotubes reinforced composites using a multi-scale method. *Engineering With Computers*, **2020**, 37, 1961	4.5	8
12	Evaluating Mechanical Properties of Nanoplatelet Reinforced Composites Under Mechanical and Thermal Loads. *Journal of Computational and Theoretical Nanoscience*, **2015**, 12, 4179-4185	0.3	7
11	Free Vibrational Response of Single-Layered Graphene Sheets Embedded in an Elastic Matrix using Different Nonlocal Plate Models. *Mechanika*, **2017**, 23,	1.5	7
10	Analytical study on elastic transition in short-fiber composites for plane strain case. *Journal of Mechanical Science and Technology*, **2013**, 27, 3419-3425	1.6	6
9	Thermo-mechanical stress analysis in platelet reinforced composites with bonded and debonded platelet end. *Journal of Mechanical Science and Technology*, **2015**, 29, 2067-2072	1.6	5
8	Experimental study on mechanical properties of PE / CNT composites. *Journal of Theoretical and Applied Mechanics*, 719	1.3	5
7	Evaluation of elastic modulus in PE/CNT composites subjected to axial loads. *SN Applied Sciences*, **2019**, 1, 1	1.8	5
6	Calcium carbonate nanoparticles effects on cement plast properties. *Microsystem Technologies*, **2021**, 27, 3059-3076	1.7	5

5	A micromechanical model for overlapped short platelet-reinforced composites. *Mechanics Based Design of Structures and Machines*, **2020**, 1-13	1.7	3
4	Experimental and numerical investigation of friction coefficient effects on defects in horizontal tube bending process. *Journal of Theoretical and Applied Mechanics*,837	1.3	3
3	Three Dimensional Stress Analysis of a Helical Gear Drive with Finite Element Method. *Mechanika*, **2017**, 23,	1.5	2
2	Experimental study on the effect of compression load on the elastic properties of HDPE/SWCNTs nanocomposites. *Microsystem Technologies*, **2021**, 27, 3513-3522	1.7	1
1	The effect of CNC and manual laser machining on electrical resistance of HDPE/MWCNT composite. *International Nano Letters*, **2018**, 8, 137-145	5.7	1