Fahimeh Mehralian

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9215056/publications.pdf

Version: 2024-02-01

27 papers	967 citations	687363 13 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	512 citing authors

#	Article	IF	Citations
1	Free vibration analysis of size-dependent shear deformable functionally graded cylindrical shell on the basis of modified couple stress theory. Composite Structures, 2015, 120, 65-78.	5.8	195
2	Nonlocal strain gradient theory calibration using molecular dynamics simulation based on small scale vibration of nanotubes. Physica B: Condensed Matter, 2017, 514, 61-69.	2.7	102
3	Size dependent buckling analysis of functionally graded piezoelectric cylindrical nanoshell. Composite Structures, 2016, 152, 45-61.	5.8	86
4	The modified couple stress functionally graded cylindrical thin shell formulation. Mechanics of Advanced Materials and Structures, 2016, 23, 791-801.	2.6	81
5	Size-dependent torsional buckling analysis of functionally graded cylindrical shell. Composites Part B: Engineering, 2016, 94, 11-25.	12.0	80
6	On the size dependent buckling of anisotropic piezoelectric cylindrical shells under combined axial compression and lateral pressure. International Journal of Mechanical Sciences, 2016, 119, 155-169.	6.7	59
7	Calibration of nonlocal strain gradient shell model for buckling analysis of nanotubes using molecular dynamics simulations. Physica B: Condensed Matter, 2017, 521, 102-111.	2.7	53
8	A shear deformable conical shell formulation in the framework of couple stress theory. Acta Mechanica, 2015, 226, 2607-2629.	2.1	49
9	On the thermal buckling of magneto-electro-elastic piezoelectric nanobeams. European Physical Journal Plus, 2018, 133, 1.	2.6	49
10	Vibration analysis of size-dependent bimorph functionally graded piezoelectric cylindrical shell based on nonlocal strain gradient theory. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2018, 40, 1.	1.6	40
11	Analysis of size-dependent smart flexoelectric nanobeams. European Physical Journal Plus, 2017, 132, 1.	2.6	29
12	Free vibration of magneto-electro-elastic nanobeams based on modified couple stress theory in thermal environment. Mechanics of Advanced Materials and Structures, 2019, 26, 601-613.	2.6	23
13	Molecular dynamics study on the thermal buckling of carbon nanotubes in the presence of pre-load. Materials Research Express, 2017, 4, 015011.	1.6	14
14	Buckling analysis of orthotropic protein microtubules under axial and radial compression based on couple stress theory. Mathematical Biosciences, 2017, 292, 18-29.	1.9	14
15	The effect of small scale on the free vibration of functionally graded truncated conical shells. Journal of Mechanics of Materials and Structures, 2016, 11, 91-112.	0.6	13
16	Free vibration of anisotropic single-walled carbon nanotube based on couple stress theory for different chirality. Journal of Low Frequency Noise Vibration and Active Control, 2017, 36, 277-293.	2.9	13
17	Thermal buckling behavior of defective CNTs under pre-load: A molecular dynamics study. Journal of Molecular Graphics and Modelling, 2017, 73, 30-35.	2.4	12
18	Buckling of bimorph functionally graded piezoelectric cylindrical nanoshell. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 3538-3550.	2.1	12

#	Article	IF	Citations
19	Thermo-electro-mechanical buckling analysis of cylindrical nanoshell on the basis of modified couple stress theory. Journal of Mechanical Science and Technology, 2017, 31, 1773-1787.	1.5	11
20	Size-Dependent Torsional Buckling of Carbon Nano-Peapods Based on the Modified Couple Stress Theory. International Journal of Applied Mechanics, 2017, 09, 1750030.	2.2	7
21	Molecular dynamics analysis on axial buckling of functionalized carbon nanotubes in thermal environment. Journal of Molecular Modeling, 2017, 23, 330.	1.8	5
22	Size-dependent buckling analysis of different chirality SWCNT under combined axial and radial loading based on orthotropic model. Materials Research Express, 2017, 4, 065004.	1.6	5
23	Elastic properties of vertically aligned carbon nanotubes: A molecular dynamics study. European Physical Journal Plus, 2019, 134, 1.	2.6	4
24	Prediction of in-plane elastic properties of graphene in the framework of first strain gradient theory. Meccanica, 2019, 54, 299-310.	2.0	4
25	A new method for free vibration analysis of nanobeams: Introduction of equivalent lattice stiffness method. Solid State Communications, 2019, 287, 35-42.	1.9	3
26	A comprehensive continuum model for graphene in the framework of first strain gradient theory. European Physical Journal Plus, 2021, 136, 1.	2.6	3
27	Molecular dynamics study on axial elastic modulus of carbon nanoropes. Archives of Civil and Mechanical Engineering, 2019, 19, 1127-1134.	3.8	1