Majid Ghadiri

List of Publications by Year
in descending order

83 papers	2,809 citations	147801 31 h-index	214800 47 g-index
85 all docs	85 docs citations	85 times ranked	995 citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear vibration of axially functionally graded tapered microbeams. International Journal of Engineering Science, 2016, 102, 12-26.	5.0	112
2	Free vibration analysis of size-dependent functionally graded porous cylindrical microshells in thermal environment. Journal of Thermal Stresses, 2017, 40, 55-71.	2.0	104
3	On size-dependent nonlinear vibration of porous and imperfect functionally graded tapered microbeams. International Journal of Engineering Science, 2016, 106, 42-56.	5.0	103
4	On size-dependent vibration of rotary axially functionally graded microbeam. International Journal of Engineering Science, 2016, 101, 29-44.	5.0	95
5	Application of the differential transformation method for nonlocal vibration analysis of functionally graded nanobeams. Journal of Mechanical Science and Technology, 2015, 29, 1207-1215.	1.5	87
6	Free vibration analysis of embedded magneto-electro-thermo-elastic cylindrical nanoshell based on the modified couple stress theory. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	87
7	Influence of surface effects on vibration behavior of a rotary functionally graded nanobeam based on Eringenâ€™s nonlocal elasticity. Microsystem Technologies, 2017, 23, 1045-1065.	2.0	87
8	Wave propagation analysis of the laminated cylindrical nanoshell coupled with a piezoelectric actuator. Mechanics Based Design of Structures and Machines, 2021, 49, 640-658.	4.7	83
9	Micro temperature-dependent FG porous plate: Free vibration and thermal buckling analysis using modified couple stress theory with CPT and FSDT. Applied Mathematical Modelling, 2017, 50, 633-655.	4.2	80
10	Vibration analysis of rotating functionally graded Timoshenko microbeam based on modified couple stress theory under different temperature distributions. Acta Astronautica, 2016, 121, 221-240.	3.2	79
11	Vibration behavior of a rotating non-uniform FG microbeam based on the modified couple stress theory and GDQEM. Composite Structures, 2016, 149, 157-169.	5.8	76
12	Nonlinear vibration of axially functionally graded non-uniform nanobeams. International Journal of Engineering Science, 2016, 106, 77-94.	5.0	73
13	Nonlinear bending vibration of a rotating nanobeam based on nonlocal Eringenâ€™s theory using differential quadrature method. Microsystem Technologies, 2016, 22, 2853-2867.	2.0	72
14	Buckling and free vibration analysis of high speed rotating carbon nanotube reinforced cylindrical piezoelectric shell. Applied Mathematical Modelling, 2019, 65, 428-442.	4.2	72
15	Effect of Porosity on Flexural Vibration of CNT-Reinforced Cylindrical Shells in Thermal Environment Using GDQM. International Journal of Structural Stability and Dynamics, 2018, 18, 1850123.	2.4	71
16	Free vibration analysis of a rotary smart two directional functionally graded piezoelectric material in axial symmetry circular nanoplate. Mechanical Systems and Signal Processing, 2018, 100, 188-207.	8.0	65
17	Effect of porosity on buckling and vibrational characteristics of the imperfect GPLRC composite nanoshell. Mechanics Based Design of Structures and Machines, 2021, 49, 811-840.	4.7	65
18	Critical speed and free vibration analysis of spinning 3D single-walled carbon nanotubes resting on elastic foundations. European Physical Journal Plus, 2017, 132, 1.	2.6	59

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19	Free vibration of an ultra-fast-rotating-induced cylindrical nano-shell resting on a Winkler foundation under thermo-electro-magneto-elastic condition. Applied Mathematical Modelling, 2018, 61, 255-279.	4.2	58
20	Comparison of modeling of the rotating tapered axially functionally graded Timoshenko and Eulerâ€"Bernoulli microbeams. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 83, 74-87.	2.7	54
21	Cylindrical functionally graded shell model based on the first order shear deformation nonlocal strain gradient elasticity theory. Microsystem Technologies, 2018, 24, 1133-1146.	2.0	49
22	Non-linear forced vibration analysis of nanobeams subjected to moving concentrated load resting on a viscoelastic foundation considering thermal and surface effects. Applied Mathematical Modelling, 2017, 50, 676-694.	4.2	47
23	A nonlocal strain gradient theory for dynamic modeling of a rotary thermo piezo electrically actuated nano FG circular plate. Mechanical Systems and Signal Processing, 2019, 115, 323-337.	8.0	47
24	Critical rotational speed, critical velocity of fluid flow and free vibration analysis of a spinning SWCNT conveying viscous fluid. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	45
25	Calibration of nonlocal strain gradient shell model for vibration analysis of a CNT conveying viscous fluid using molecular dynamics simulation. Computational Materials Science, 2018, 148, 104-115.	3.0	44
26	Influence of various temperature distributions on critical speed and vibrational characteristics of rotating cylindrical microshells with modified lengthscale parameter. European Physical Journal Plus, 2017, 132, 1.	2.6	43
27	Size-dependent effects on critical flow velocity of a SWCNT conveying viscous fluid based on nonlocal strain gradient cylindrical shell model. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	42
28	Flapwise bending vibration analysis of rotary tapered functionally graded nanobeam in thermal environment. Mechanics of Advanced Materials and Structures, 2019, 26, 139-155.	2.6	41
29	Nonlinear vibration behavior of a rotating nanobeam under thermal stress using Eringenâ€™s nonlocal elasticity and DQM. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	40
30	Temperature-dependent vibration analysis of a FG viscoelastic cylindrical microshell under various thermal distribution via modified length scale parameter: a numerical solution. Journal of the Mechanical Behavior of Materials, 2017, 26, 9-24.	1.8	40
31	Influence of thermal and surface effects on vibration behavior of nonlocal rotating Timoshenko nanobeam. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	39
32	Comparison of modeling a conical nanotube resting on the Winkler elastic foundation based on the modified couple stress theory and molecular dynamics simulation. European Physical Journal Plus, 2017, 132, 1.	2.6	38
33	Surface and size-dependent effects on the free vibration analysis of cylindrical shell based on Gurtin-Murdoch and nonlocal strain gradient theories. Journal of Physics and Chemistry of Solids, 2019, 129, 140-150.	4.0	35
34	Influence of three-parameter viscoelastic medium on vibration behavior of a cylindrical nonhomogeneous microshell in thermal environment: An exact solution. Journal of Thermal Stresses, 2017, 40, 1353-1367.	2.0	34
35	A new model for the cantilever MEMS actuator in magnetorheological elastomer cored sandwich form considering the fringing field and Casimir effects. Mechanical Systems and Signal Processing, 2019, 121, 551-561.	8.0	34
36	Determination of carbon nanotubes size-dependent parameters: molecular dynamics simulation and nonlocal strain gradient continuum shell model. Mechanics Based Design of Structures and Machines, 2021, 49, 103-120.	4.7	33

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37	Vibration analysis of a nano-turbine blade based on Eringen nonlocal elasticity applying the differential quadrature method. JVC/Journal of Vibration and Control, 2017, 23, 3247-3265.	2.6	31
38	Vibration analysis of Nano-Rotor's Blade applying Eringen nonlocal elasticity and generalized differential quadrature method. Applied Mathematical Modelling, 2017, 43, 191-206.	4.2	31
39	On size-dependent thermal buckling and free vibration of circular FG Microplates in thermal environments. Microsystem Technologies, 2017, 23, 4989-5001.	2.0	29
40	Vibrational investigation of the spinning bi-dimensional functionally graded (2-FGM) micro plate subjected to thermal load in thermal environment. Microsystem Technologies, 2018, 24, 1695-1711.	2.0	28
41	Effect of distributed axial loading on dynamic stability and buckling analysis of a viscoelastic DWCNT conveying viscous fluid flow. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	27
42	Thermo-mechanical vibration of orthotropic cantilever and propped cantilever nanoplate using generalized differential quadrature method. Mechanics of Advanced Materials and Structures, 2017, 24, 636-646.	2.6	22
43	Parametric excitation of Eulerâ€"Bernoulli nanobeams under thermo-magneto-mechanical loads: Nonlinear vibration and dynamic instability. Composites Part B: Engineering, 2019, 173, 106928.	12.0	22
44	Nonlinear random vibrations of functionally graded porous nanobeams using equivalent linearization method. Applied Mathematical Modelling, 2021, 89, 1847-1859.	4.2	21
45	Non-linear vibration and resonance analysis of graphene sheet subjected to moving load on a visco-Pasternak foundation under thermo-magnetic-mechanical loads: An analytical and simulation study. Measurement: Journal of the International Measurement Confederation, 2018, 124, 103-119.	5.0	18
46	Studying the influence of surface effects on vibration behavior of size-dependent cracked FG Timoshenko nanobeam considering nonlocal elasticity and elastic foundation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	17
47	Vibration analysis of a rotating functionally graded tapered microbeam based on the modified couple stress theory by DQEM. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	17
48	Experimental and analytical investigations of vibrational behavior of U-shaped atomic force microscope probe considering thermal loading and the modified couple stress theory. European Physical Journal Plus, 2017, 132, 1.	2.6	17
49	Nonlinear Vibration Analysis of Functionally Graded Nanobeam Using Homotopy Perturbation Method. Advances in Applied Mathematics and Mechanics, 2017, 9, 144-156.	1.2	17
50	Moving axial load on dynamic response of single-walled carbon nanotubes using classical, Rayleigh and Bishop rod models based on Eringenâ€™s theory. JVC/Journal of Vibration and Control, 2020, 26, 913-928.	2.6	17
51	Dynamic plastic impact behavior of CNTs/fiber/polymer multiscale laminated composite doubly curved shells. International Journal of Mechanical Sciences, 2021, 195, 106223.	6.7	17
52	Nonlinear forced vibration of graphene/piezoelectric sandwich nanoplates subjected to a mechanical shock. Journal of Sandwich Structures and Materials, 2021, 23, 956-987.	3.5	16
53	Investigation of surface effects on the natural frequency of a functionally graded cylindrical nanoshell based on nonlocal strain gradient theory. European Physical Journal Plus, 2020, 135, 1.	2.6	16
54	Investigation of the dental implant geometry effect on stress distribution at dental implantâ€"bone interface. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2016, 38, 335-343.	1.6	14

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55	Effect of cell imprinting on viability and drug susceptibility of breast cancer cells to doxorubicin. Acta Biomaterialia, 2020, 113, 119-129.	8.3	13
56	Resonator vibration of a magneto-electro-elastic nano-plate integrated with FGM layer subjected to the nano mass-Spring-damper system and a moving load. Waves in Random and Complex Media, 0, , 1-39.	2.7	13
57	Free transverse vibration analysis of size dependent Timoshenko FG cracked nanobeams resting on elastic medium. Microsystem Technologies, 2017, 23, 1813-1830.	2.0	12
58	A nonlocal strain gradient theory for vibration and flutter instability analysis in rotary SWCNT with conveying viscous fluid. Waves in Random and Complex Media, 2021, 31, 305-330.	2.7	12
59	Nonlinear dynamics of fluid conveying double-walled nanotubes incorporating surface effect: A bifurcation analysis. Applied Mathematical Modelling, 2021, 92, 594-611.	4.2	12
60	Functionally graded materials (FGMs): A review of classifications, fabrication methods and their applications. Processing and Application of Ceramics, 2021, 15, 319-343.	0.8	12
61	Thermal effect on dynamics of thin and thick composite laminated microbeams by modified couple stress theory for different boundary conditions. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	10
62	Free vibration investigation of nano mass sensor using differential transformation method. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	9
63	Influence of size effect on flapwise vibration behavior of rotary microbeam and its analysis through spectral meshless radial point interpolation. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	9
64	Magnetic field effect on vibration of a rotary smart size-dependent two-dimensional porous functionally graded nanoplate. Journal of Intelligent Material Systems and Structures, 2018, 29, 2885-2901.	2.5	9
65	Nonlinear dual frequency excited vibration of viscoelastic graphene sheets exposed to thermo-magnetic field. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105111.	3.3	8
66	Effect of External Moving Torque on Dynamic Stability of Carbon Nanotube. Journal of Nano Research, 0, 61, 118-135.	0.8	8
67	Parametric Excitation of Pre-Stressed Graphene Sheets under Magnetic Field: Nonlinear Vibration and Dynamic Instability. International Journal of Structural Stability and Dynamics, 2019, 19, 1950135.	2.4	7
68	A nonlocal strain gradient theory for rotating thermo-mechanical characteristics on magnetically actuated viscoelastic functionally graded nanoshell. Journal of Intelligent Material Systems and Structures, 2020, 31, 1511-1523.	2.5	7
69	A modified strain gradient shell model for vibration analysis of DWCNT conveying viscous fluid including surface effects. Mechanics Based Design of Structures and Machines, 2022, 50, 1506-1536.	4.7	7
70	Influence of various setting angles on vibration behavior of rotating graphene sheet: continuum modeling and molecular dynamics simulation. Journal of Molecular Modeling, 2019, 25, 141.	1.8	6
71	Low-velocity impact analysis of viscoelastic composite laminated nanoplate based on nonlocal strain gradient theory for different boundary conditions. Journal of Sandwich Structures and Materials, 0, , 109963622092507.	3.5	6
72	Size-dependent random vibration analysis of AFM probe with tip mass considering surface viscoelastic effect. European Physical Journal Plus, 2019, 134, 1.	2.6	5

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73	Thermo-mechanical analysis of FG nanobeam with attached tip mass: an exact solution. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	4
74	Parametrically excited nonlinear dynamic instability of reinforced piezoelectric nanoplates. European Physical Journal Plus, 2019, 134, 1.	2.6	4
75	Analytical modeling and experimental verification for vibration of piezoelectric U-shaped AFM incorporating thermal loading and surface effect. Waves in Random and Complex Media, 2020, 30, 269-291.	2.7	4
76	Nonlinear micromechanically analysis of forced vibration of the rectangular-shaped atomic force microscopes incorporating contact model and thermal influences. Mechanics Based Design of Structures and Machines, 2022, 50, 609-629.	4.7	4
77	Mode III fracture analysis of an anisotropic finite wedge with an interfacial crack. Mathematics and Mechanics of Solids, 2013, 18, 823-836.	2.4	3
78	Analysis of bonded anisotropic wedges with interface crack under anti-plane shear loading. Applied Mathematics and Mechanics (English Edition), 2014, 35, 637-654.	3.6	2
79	Vibration analysis of single-walled carbon peapods based on nonlocal Timoshenko beam theory. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	2
80	Nonlinear vibration and stability analysis of a size-dependent viscoelastic cantilever nanobeam with axial excitation. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, , 095440622095910.	2.1	2
81	Size-dependent vibration behavior of graphene sheet with attached spring-mass and damper system based on the nonlocal Eringen theory. Mechanics of Advanced Materials and Structures, 2020, , 1-10.	2.6	2
82	Dynamic response of a size-dependent nanobeam to low velocity impact by a nanoparticle with considering atomic interaction forces. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 6640-6655.	2.1	1
83	On the nonlinear dynamics of pre-stressed nanoelectromechanical resonators. Mechanics of Advanced Materials and Structures, 2020, , 1-14.	2.6	0