

Mir Masoud Seyyed Fakhrabadi

List of Publications by Year in descending order

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79
papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Various Cross Sections on Elastoplastic Behavior of Fe Nanowires under Tension/Compression. <i>Journal of Materials Engineering and Performance</i> , 2023, 32, 423-437.	1.2	2
2	Interphase effects on elastic properties of polymer nanocomposites reinforced by carbon nanocones. <i>Computational Materials Science</i> , 2022, 201, 110910.	1.4	9
3	Wave propagation and directionality in two-dimensional periodic lattices considering shear deformations. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanomaterials, Nanoengineering and Nanosystems</i> , 2022, 236, 101-116.	0.5	1
4	Wave propagation in nonlinear monoatomic chains with linear and quadratic damping. <i>Nonlinear Dynamics</i> , 2022, 108, 457-478.	2.7	11
5	Active/passive tuning of wave propagation in phononic microbeams via piezoelectric patches. <i>Mechanics of Materials</i> , 2022, 167, 104249.	1.7	16
6	Graphyne nano-spirals under tension: Effects of base structures on superelasticity and fracture mechanisms. <i>Mechanics of Materials</i> , 2022, 171, 104367.	1.7	3
7	Small-scale effects on wave propagation in planar micro-lattices. <i>Journal of Sound and Vibration</i> , 2021, 494, 115894.	2.1	16
8	Out-of-plane wave propagation in two-dimensional micro-lattices. <i>Physica Scripta</i> , 2021, 96, 085704.	1.2	6
9	Reinforcement of polymer nanocomposites by E^{t} -graphyne nanotubes: A multiscale simulation. <i>Computational Materials Science</i> , 2021, 194, 110431.	1.4	4
10	Electronic, optical, mechanical, and thermal properties of diphenylacetylene-based graphyne nanosheet using density functional theory. <i>Nanotechnology</i> , 2021, 32, 405705.	1.3	5
11	Effects of copper nanoparticles on elastic and thermal properties of conductive polymer nanocomposites. <i>Mechanics of Materials</i> , 2021, 160, 103958.	1.7	9
12	Atomic-level engineering of anisotropically nanoporous graphyne membranes for efficient water desalination. <i>Applied Surface Science</i> , 2021, 559, 149977.	3.1	8
13	Molecular dynamics simulation of transversely isotropic elastic properties of carbon nanocones. <i>Physica Scripta</i> , 2021, 96, 035702.	1.2	3
14	Manipulation of wave motion in smart nonlinear phononic crystals made of shape memory alloys. <i>Physica Scripta</i> , 2021, 96, 125527.	1.2	4
15	Anisotropic nature of thermal conductivity in graphene spirals revealed by molecular dynamics simulations. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 137, 109228.	1.9	16
16	Prediction of mechanical and thermal properties of polymer nanocomposites reinforced by coiled carbon nanotubes for possible application as impact absorbent. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 882-902.	1.1	13
17	How does flexoelectricity affect static bending and nonlinear dynamic response of nanoscale lipid bilayers?. <i>Physica Scripta</i> , 2020, 95, 025001.	1.2	3
18	Effects of combined material and geometric nonlinearities on dynamic response of embedded nanobeams. <i>Physica Scripta</i> , 2020, 95, 085220.	1.2	2

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19	Templating Effect of Different Low-Miller-Index Gold Surfaces on the Bottom-Up Growth of Graphene Nanoribbons. <i>ACS Applied Nano Materials</i> , 2020, 3, 11497-11509.	2.4	2
20	Hybrid lattice metamaterials with auxiliary resonators made of functionally graded materials. <i>Acta Mechanica</i> , 2020, 231, 4835-4849.	1.1	17
21	Study of tunable locally resonant metamaterials: Effects of spider-web and snowflake hierarchies. <i>International Journal of Solids and Structures</i> , 2020, 204-205, 81-95.	1.3	30
22	Damping effects on wave-propagation characteristics of microtubule-based bio-nano-metamaterials. <i>International Journal of Mechanical Sciences</i> , 2020, 184, 105844.	3.6	17
23	Orientation-dependent mechanical properties of planar microtubule-based bio-nanometamaterials. <i>Physica Scripta</i> , 2020, 95, 085004.	1.2	2
24	Tunable elastic wave propagation in planar functionally graded metamaterials. <i>Acta Mechanica</i> , 2020, 231, 3363-3385.	1.1	27
25	Multiscale simulation study of anisotropic nanomechanical properties of graphene spirals and their polymer nanocomposites. <i>Mechanics of Materials</i> , 2020, 145, 103376.	1.7	23
26	On-surface synthesis of extended linear graphyne molecular wires by protecting the alkynyl group. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12180-12186.	1.3	12
27	Wave propagation in microtubule-based bio-nano-architected networks: A lesson from nature. <i>International Journal of Mechanical Sciences</i> , 2019, 164, 105175.	3.6	16
28	Nanomechanical properties of single- and double-layer graphene spirals: a molecular dynamics simulation. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	1.1	14
29	Primary and Secondary Resonance Analyses of Viscoelastic Nanoplates Based on Strain Gradient Theory. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850109.	1.3	7
30	Analytical solution for nonlinear dynamic behavior of viscoelastic nano-plates modeled by consistent couple stress theory. <i>Latin American Journal of Solids and Structures</i> , 2018, 15, .	0.6	12
31	Substrate involvement in dioxygen bond dissociation catalysed by iron phthalocyanine supported on Ag(100). <i>Chemical Communications</i> , 2018, 54, 9418-9421.	2.2	13
32	Application of Modified Couple Stress Theory and Homotopy Perturbation Method in Investigation of Electromechanical Behaviors of Carbon Nanotubes. <i>Advances in Applied Mathematics and Mechanics</i> , 2017, 9, 23-42.	0.7	9
33	Two bioinspired mobile manipulators with rolling locomotion. <i>Journal of Bionic Engineering</i> , 2016, 13, 48-58.	2.7	2
34	Comment on "Molecular structure-dependent deformations in boron nitride nanostructures subject to an electrical field". <i>Journal Physics D: Applied Physics</i> , 2016, 49, 108001.	1.3	0
35	Prediction of small-scale effects on nonlinear dynamic behaviors of carbon nanotube-based nano-resonators using consistent couple stress theory. <i>Composites Part B: Engineering</i> , 2016, 88, 26-35.	5.9	17
36	Nonlinear Dynamic Analysis of Electrostatically Actuated Single-walled Carbon Nanotubes Using Nonlocal Elasticity. <i>Latin American Journal of Solids and Structures</i> , 2015, 12, 1224-1240.	0.6	3

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37	Application of electrostatically actuated carbon nanotubes in nanofluidic and bio-nanofluidic sensors and actuators. Measurement: Journal of the International Measurement Confederation, 2015, 73, 127-136.	2.5	9
38	Comprehensive nonlinear electromechanical analysis of nanobeams under DC/AC voltages based on consistent couple-stress theory. Composite Structures, 2015, 132, 1206-1218.	3.1	16
39	Three-dimensional modal analysis of carbon nanocones using molecular dynamics simulation. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2015, 33, .	0.6	6
40	Size effects on nanomechanical behaviors of nanoelectronics devices based on consistent couple-stress theory. International Journal of Mechanical Sciences, 2015, 92, 146-153.	3.6	13
41	On the Pull-in Instability of Double-Walled Carbon Nanotube-Based Nano Electromechanical Systems with Cross-Linked Walls. Fullerenes Nanotubes and Carbon Nanostructures, 2015, 23, 300-314.	1.0	3
42	Prediction of Buckling Instability of Perfect and Defective Carbon Nanotubes. Journal of Computational and Theoretical Nanoscience, 2014, 11, 2356-2369.	0.4	2
43	Modal analysis of silicon carbide nanotubes using structural mechanics. Applied Physics A: Materials Science and Processing, 2014, 116, 1687-1694.	1.1	5
44	Size-dependent instability of carbon nanotubes under electrostatic actuation using nonlocal elasticity. International Journal of Mechanical Sciences, 2014, 80, 144-152.	3.6	32
45	Carbon nanotube-based nano-fluidic devices. Journal Physics D: Applied Physics, 2014, 47, 085301.	1.3	7
46	Dynamic analysis of carbon nanotubes under electrostatic actuation using modified couple stress theory. Acta Mechanica, 2014, 225, 1523-1535.	1.1	22
47	Nonlinear analysis of carbon nanotube-based nanoelectronics devices. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2014, 228, 2426-2439.	1.1	4
48	Analysis and optimization of the 5-RPUR parallel manipulator. Advanced Robotics, 2014, 28, 1021-1031.	1.1	9
49	Non-linear behaviors of carbon nanotubes under electrostatic actuation based on strain gradient theory. International Journal of Non-Linear Mechanics, 2014, 67, 236-244.	1.4	27
50	Fluid-solid interaction in electrostatically actuated carbon nanotubes. Journal of Mechanical Science and Technology, 2014, 28, 1431-1439.	0.7	3
51	Investigation of interphase effects on mechanical behaviors of carbon nanocone-based composites. Mechanics and Industry, 2014, 15, 287-292.	0.5	10
52	Pull-In Behaviors of Carbon Nanotubes with Vacancy Defects and Residual Stresses. Journal of Computational and Theoretical Nanoscience, 2014, 11, 153-159.	0.4	6
53	Multi-objective design optimization of composite laminates using discrete shuffled frog leaping algorithm. Journal of Mechanical Science and Technology, 2013, 27, 1791-1800.	0.7	9
54	Design and Implementation of a Novel Spherical Mobile Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 71, 43-64.	2.0	42

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55	Design and implementation of a novel hybrid quadruped spherical mobile robot. <i>Robotics and Autonomous Systems</i> , 2013, 61, 184-194.	3.0	14
56	Investigation of buckling and vibration properties of hetero-junctioned and coiled carbon nanotubes. <i>Computational Materials Science</i> , 2013, 73, 93-112.	1.4	17
57	Dynamic behaviours of carbon nanotubes under dc voltage based on strain gradient theory. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 405101.	1.3	14
58	Investigation of the Mechanical Behaviors of Carbon Nanotubes Under Electrostatic Actuation Using the Modified Couple Stress Theory. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2013, 21, 930-945.	1.0	6
59	Molecular dynamics simulation of pull-in phenomena in carbon nanotubes with Stone-Wales defects. <i>Solid State Communications</i> , 2013, 157, 38-44.	0.9	25
60	Investigation of Mechanical Properties and Thermal Conductivities of Nitrogen Doped Carbon Nanotubes. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 2536-2541.	0.4	4
61	Analysis of pull-in instability of electrostatically actuated carbon nanotubes using the homotopy perturbation method. <i>Journal of Mechanics of Materials and Structures</i> , 2013, 8, 385-401.	0.4	5
62	Application of Molecular Dynamics in Mechanical Characterization of Carbon Nanocones. <i>Journal of Computational and Theoretical Nanoscience</i> , 2013, 10, 1921-1927.	0.4	8
63	Size-dependent characteristics of electrostatically actuated fluid-conveying carbon nanotubes based on modified couple stress theory. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 771-780.	1.5	6
64	Optimal Design of a 6-DOF Parallel Manipulator Using Particle Swarm Optimization. <i>Advanced Robotics</i> , 2012, 26, 1419-1441.	1.1	11
65	Vibrational properties of two and three junctioned carbon nanotubes. <i>Computational Materials Science</i> , 2012, 65, 411-425.	1.4	23
66	Vibrational analysis of single-walled carbon nanocones using molecular mechanics approach. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1162-1168.	1.3	27
67	Investigation of elastic and buckling properties of carbon nanocones using molecular mechanics approach. <i>Computational Materials Science</i> , 2012, 61, 248-256.	1.4	32
68	Effects of boron doping on mechanical properties and thermal conductivities of carbon nanotubes. <i>Solid State Communications</i> , 2012, 152, 1973-1979.	0.9	27
69	Optimization of milling parameters using artificial neural network and artificial immune system. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 4097-4104.	0.7	32
70	Design, Implementation and Control of a Fish Robot with Undulating Fins. <i>International Journal of Advanced Robotic Systems</i> , 2011, 8, 60.	1.3	26
71	Vibrational analysis of carbon nanotubes using molecular mechanics and artificial neural network. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 565-578.	1.3	34
72	Design and Implementation of an Electrically Control Circuit for Undulating Fins of Fish-Like Robot. , 2010, , .		0

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73	Design, dynamic modeling and simulation of a spherical mobile robot with a novel motion mechanism. , 2010, , .		8
74	Analysis of a Micro-Optomechatronic Force Sensor. Fiber and Integrated Optics, 2010, 29, 491-513.	1.7	2
75	Prediction of the behavior of a microcantilever based optomechatronic force sensor by finite element method. , 2009, , .		0
76	Dynamics and GA-Based Optimization of Rectilinear Snake Robot. Lecture Notes in Computer Science, 2009, , 613-622.	1.0	1
77	Simulation and analysis of anthropomorphic three finger micro/nano gripper using piezoelectric actuator. Proceedings of SPIE, 2008, , .	0.8	3
78	Modeling and Simulation of Inchworm Mode Locomotion. Lecture Notes in Computer Science, 2008, , 617-624.	1.0	17
79	KINEMATICS AND KINETICS ANALYSIS OF RECTILINEAR LOCOMOTION GAIT. , 2008, , .		0