

# Abbas Rastgoo

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

406  
citations

840585

11  
h-index

794469

19  
g-index

30  
all docs

30  
docs citations

30  
times ranked

254  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometrically nonlinear vibration analysis of piezoelectrically actuated FGM plate with an initial large deformation. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2107-2124.	0.7	48
2	Vibration of piezoelectric nanofilm-based electromechanical sensors via higher-order non-local strain gradient theory. <i>Micro and Nano Letters</i> , 2016, 11, 302-307.	0.6	47
3	Free vibration analysis of multi-scale hybrid nanocomposite plates with agglomerated nanoparticles. <i>Mechanics Based Design of Structures and Machines</i> , 2021, 49, 487-510.	3.4	38
4	Thermal buckling analysis of agglomerated multiscale hybrid nanocomposites via a refined beam theory. <i>Mechanics Based Design of Structures and Machines</i> , 2021, 49, 403-429.	3.4	33
5	Static stability analysis of agglomerated multi-scale hybrid nanocomposites via a refined theory. <i>Engineering With Computers</i> , 2021, 37, 2225.	3.5	28
6	Vibration analysis of porous metal foam shells rested on an elastic substrate. <i>Journal of Strain Analysis for Engineering Design</i> , 2019, 54, 199-208.	1.0	25
7	A machine learning-based model for the estimation of the temperature-dependent moduli of graphene oxide reinforced nanocomposites and its application in a thermally affected buckling analysis. <i>Engineering With Computers</i> , 2021, 37, 2245.	3.5	23
8	Dynamic analysis of carbon nanotubes under electrostatic actuation using modified couple stress theory. <i>Acta Mechanica</i> , 2014, 225, 1523-1535.	1.1	22
9	Post-buckling analysis of imperfect multi-scale hybrid nanocomposite beams rested on a nonlinear stiff substrate. <i>Engineering With Computers</i> , 2022, 38, 301-314.	3.5	22
10	Static stability analysis of multi-scale hybrid agglomerated nanocomposite shells. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 501-517.	3.4	20
11	Investigating the thermal environment effects on geometrically nonlinear vibration of smart functionally graded plates. <i>Journal of Mechanical Science and Technology</i> , 2010, 24, 775-791.	0.7	12
12	FSDPT based study for vibration analysis of piezoelectric coupled annular FGM plate. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 2157-2168.	0.7	10
13	Multi-objective design optimization of composite laminates using discrete shuffled frog leaping algorithm. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1791-1800.	0.7	9
14	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
15	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
16	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
17	Elastic modulus of free-standing lipid bilayer. <i>Soft Materials</i> , 2016, 14, 210-216.	0.8	6
18	Numerical modelling of a spheroid living cell membrane under hydrostatic pressure. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2018, 2018, 083501.	0.9	6

#	ARTICLE	IF	CITATIONS
19	On the existence of periodic solution for equation of motion of thick beams having arbitrary cross section with tip mass under harmonic support motion. <i>International Journal of Mechanics and Materials in Design</i> , 2007, 3, 29-38.	1.7	5
20	Stress and Strain Analysis of Functionally Graded Rectangular Plate with Exponentially Varying Properties. <i>Indian Journal of Materials Science</i> , 2013, 2013, 1-7.	0.6	5
21	Enhanced gene delivery in tumor cells using chemical carriers and mechanical loadings. <i>PLoS ONE</i> , 2018, 13, e0209199.	1.1	5
22	Primary and secondary resonance analysis of FG/lipid nanoplate with considering porosity distribution based on a nonlinear elastic medium. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 1709-1730.	1.5	5
23	Nonlinear analysis of carbon nanotube-based nanoelectronics devices. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2014, 228, 2426-2439.	1.1	4
24	Fluid-solid interaction in electrostatically actuated carbon nanotubes. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 1431-1439.	0.7	3
25	On the Pull-in Instability of Double-Walled Carbon Nanotube-Based Nano Electromechanical Systems with Cross-Linked Walls. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 300-314.	1.0	3
26	Effects of stretching on molecular transfer from cell membrane by forming pores. <i>Soft Materials</i> , 2019, 17, 391-399.	0.8	3
27	Development of Delivery Systems Enhances the Potency of Cell-Based HIV-1 Therapeutic Vaccine Candidates. <i>Journal of Immunology Research</i> , 2021, 2021, 1-12.	0.9	3
28	Estimating the stresses in cantilever beam loaded by a parabolically distributed load with Airy stress functions. <i>International Journal of Mechanics and Materials in Design</i> , 2006, 3, 253-264.	1.7	2
29	An experimental investigation of corrosion resistance of mild steel by sol-gel process using TiO <sub>2</sub> nanostructure coating and prediction of optimal parameters. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2013, 227, 105-111.	0.1	0