

# Abbas Rastgoo

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29  
papers

280  
citations

10  
h-index

15  
g-index

30  
ext. papers

348  
ext. citations

2.2  
avg, IF

4.4  
L-index

#	Paper	IF	Citations
29	Vibration of piezoelectric nanofilm-based electromechanical sensors via higher-order non-local strain gradient theory. <i>Micro and Nano Letters</i> , <b>2016</b> , 11, 302-307	0.9	43
28	Geometrically nonlinear vibration analysis of piezoelectrically actuated FGM plate with an initial large deformation. <i>Journal of Mechanical Science and Technology</i> , <b>2009</b> , 23, 2107-2124	1.6	39
27	Free vibration analysis of multi-scale hybrid nanocomposite plates with agglomerated nanoparticles. <i>Mechanics Based Design of Structures and Machines</i> , <b>2021</b> , 49, 487-510	1.7	27
26	Thermal buckling analysis of agglomerated multiscale hybrid nanocomposites via a refined beam theory. <i>Mechanics Based Design of Structures and Machines</i> , <b>2021</b> , 49, 403-429	1.7	23
25	Dynamic analysis of carbon nanotubes under electrostatic actuation using modified couple stress theory. <i>Acta Mechanica</i> , <b>2014</b> , 225, 1523-1535	2.1	21
24	Vibration analysis of porous metal foam shells rested on an elastic substrate. <i>Journal of Strain Analysis for Engineering Design</i> , <b>2019</b> , 54, 199-208	1.3	16
23	Static stability analysis of multi-scale hybrid agglomerated nanocomposite shells. <i>Mechanics Based Design of Structures and Machines</i> , <b>2020</b> , 1-17	1.7	13
22	Static stability analysis of agglomerated multi-scale hybrid nanocomposites via a refined theory. <i>Engineering With Computers</i> , <b>2020</b> , 37, 2225	4.5	12
21	Post-buckling analysis of imperfect multi-scale hybrid nanocomposite beams rested on a nonlinear stiff substrate. <i>Engineering With Computers</i> , <b>2020</b> , 1	4.5	11
20	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> , <b>2020</b> , 37, 2245	4.5	11
19	FSDPT based study for vibration analysis of piezoelectric coupled annular FGM plate. <i>Journal of Mechanical Science and Technology</i> , <b>2009</b> , 23, 2157-2168	1.6	8
18	Multi-objective design optimization of composite laminates using discrete shuffled frog leaping algorithm. <i>Journal of Mechanical Science and Technology</i> , <b>2013</b> , 27, 1791-1800	1.6	7
17	Investigating the thermal environment effects on geometrically nonlinear vibration of smart functionally graded plates. <i>Journal of Mechanical Science and Technology</i> , <b>2010</b> , 24, 775-791	1.6	6
16	Numerical modelling of a spheroid living cell membrane under hydrostatic pressure. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2018</b> , 2018, 083501	1.9	5
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> , <b>2013</b> , 21, 930-945	1.8	5
14	Size-dependent characteristics of electrostatically actuated fluid-conveying carbon nanotubes based on modified couple stress theory. <i>Beilstein Journal of Nanotechnology</i> , <b>2013</b> , 4, 771-80	3	5
13	Stress and Strain Analysis of Functionally Graded Rectangular Plate with Exponentially Varying Properties. <i>Indian Journal of Materials Science</i> , <b>2013</b> , 2013, 1-7		4

12	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> , <b>2007</b> , 3, 29-38	2.5	4
11	Elastic modulus of free-standing lipid bilayer. <i>Soft Materials</i> , <b>2016</b> , 14, 210-216	1.7	4
10	Nonlinear analysis of carbon nanotube-based nanoelectronics devices. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , <b>2014</b> , 228, 2426-2439	1.3	3
9	Fluid-solid interaction in electrostatically actuated carbon nanotubes. <i>Journal of Mechanical Science and Technology</i> , <b>2014</b> , 28, 1431-1439	1.6	3
8	Effects of stretching on molecular transfer from cell membrane by forming pores. <i>Soft Materials</i> , <b>2019</b> , 17, 391-399	1.7	2
7	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> , <b>2015</b> , 23, 300-314	1.8	2
6	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> , <b>2020</b> , 27, 1709-1730	1.8	2
5	Enhanced gene delivery in tumor cells using chemical carriers and mechanical loadings. <i>PLoS ONE</i> , <b>2018</b> , 13, e0209199	3.7	2
4	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> , <b>2006</b> , 3, 253-264	2.5	1
3	Primary and Secondary Resonance Analyses of Viscoelastic Nanoplates Based on Strain Gradient Theory. <i>International Journal of Applied Mechanics</i> , <b>2018</b> , 10, 1850109	2.4	1
2	Development of Delivery Systems Enhances the Potency of Cell-Based HIV-1 Therapeutic Vaccine Candidates. <i>Journal of Immunology Research</i> , <b>2021</b> , 2021, 5538348	4.5	0
1	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> , <b>2013</b> , 227, 105-111		