

Omid Rahmani

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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.

55
papers

1,206
citations

19
h-index

33
g-index

57
ext. papers

1,321
ext. citations

2.5
avg, IF

5.26
L-index

#	Paper	IF	Citations
55	Analysis and modeling the size effect on vibration of functionally graded nanobeams based on nonlocal Timoshenko beam theory. <i>International Journal of Engineering Science</i> , 2014 , 77, 55-70	5.7	234
54	Finite element modeling of low-velocity impact on laminated composite plates and cylindrical shells. <i>Composite Structures</i> , 2011 , 93, 1363-1375	5.3	66
53	Free vibration response of composite sandwich cylindrical shell with flexible core. <i>Composite Structures</i> , 2010 , 92, 1269-1281	5.3	66
52	Buckling analysis of functionally graded nanobeams based on a nonlocal third-order shear deformation theory. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 1019-1032	2.6	57
51	Free vibration analysis of sandwich structures with a flexible functionally graded syntactic core. <i>Composite Structures</i> , 2009 , 91, 229-235	5.3	54
50	Free vibration of shallow and deep curved FG nanobeam via nonlocal Timoshenko curved beam model. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	52
49	Free vibration analysis of magneto-electro-thermo-elastic nanobeams resting on a Pasternak foundation. <i>Smart Materials and Structures</i> , 2016 , 25, 035023	3.4	42
48	A high-order theory for the analysis of circular cylindrical composite sandwich shells with transversely compliant core subjected to external loads. <i>Composite Structures</i> , 2012 , 94, 2129-2142	5.3	36
47	Active vibration control of nanotube structures under a moving nanoparticle based on the nonlocal continuum theories. <i>Meccanica</i> , 2015 , 50, 1351-1369	2.1	29
46	Vibration analysis of functionally graded piezoelectric nanoscale plates by nonlocal elasticity theory: An analytical solution. <i>Superlattices and Microstructures</i> , 2016 , 100, 57-75	2.8	29
45	Size-dependent free vibration analysis of functionally graded piezoelectric plate subjected to thermo-electro-mechanical loading. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 3039-3053	2.3	26
44	Thermomechanical vibration of curved functionally graded nanobeam based on nonlocal elasticity. <i>Journal of Thermal Stresses</i> , 2016 , 39, 1252-1267	2.2	26
43	Torsional Vibration of Cracked Nanobeam Based on Nonlocal Stress Theory with Various Boundary Conditions: An Analytical Study. <i>International Journal of Applied Mechanics</i> , 2015 , 07, 1550036	2.4	25
42	Exact solution for axial and transverse dynamic response of functionally graded nanobeam under moving constant load based on nonlocal elasticity theory. <i>Meccanica</i> , 2017 , 52, 1441-1457	2.1	25
41	Surface Effects on Buckling of Double Nanobeam System Based on Nonlocal Timoshenko Model. <i>International Journal of Structural Stability and Dynamics</i> , 2016 , 16, 1550077	1.9	25
40	Buckling and free vibration of shallow curved micro/nano-beam based on strain gradient theory under thermal loading with temperature-dependent properties. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	24
39	Modeling and active vibration suppression of a single-walled carbon nanotube subjected to a moving harmonic load based on a nonlocal elasticity theory. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 117, 1547-1555	2.6	21

38	Dynamic response of a double, single-walled carbon nanotube under a moving nanoparticle based on modified nonlocal elasticity theory considering surface effects. <i>Mechanics of Advanced Materials and Structures</i> , 2017 , 24, 1274-1291	1.8	21
37	Dynamic response of a single-walled carbon nanotube under a moving harmonic load by considering modified nonlocal elasticity theory. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	20
36	Nonlinear low-velocity impact analysis of functionally graded nanotube-reinforced composite cylindrical shells in thermal environments. <i>Polymer Composites</i> , 2018 , 39, 730-745	3	19
35	Assessment of various nonlocal higher order theories for the bending and buckling behavior of functionally graded nanobeams. <i>Steel and Composite Structures</i> , 2017 , 23, 339-350		19
34	On the buckling behavior of piezoelectric nanobeams: An exact solution. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 3175-3182	1.6	18
33	Analytical Solution for Free Vibration of Laminated Curved Beam with Magnetostrictive Layers. <i>International Journal of Applied Mechanics</i> , 2015 , 07, 1550050	2.4	18
32	An Analytical Solution for Free Vibration of Piezoelectric Nanobeams Based on a Nonlocal Elasticity Theory. <i>Journal of Mechanics</i> , 2016 , 32, 143-151	1	18
31	Frequency analysis of curved nano-sandwich structure based on a nonlocal model. <i>Modern Physics Letters B</i> , 2016 , 30, 1650136	1.6	16
30	Coupled twistBending static and dynamic behavior of a curved single-walled carbon nanotube based on nonlocal theory. <i>Microsystem Technologies</i> , 2017 , 23, 2393-2401	1.7	14
29	On nonlinear forced vibration of nano cantilever-based biosensor via couple stress theory. <i>Mechanical Systems and Signal Processing</i> , 2019 , 128, 19-36	7.8	14
28	Exact solution for Transient bending of a circular plate integrated with piezoelectric layers. <i>Applied Mathematical Modelling</i> , 2013 , 37, 7154-7163	4.5	14
27	Buckling of double functionally-graded nanobeam system under axial load based on nonlocal theory: an analytical approach. <i>Microsystem Technologies</i> , 2017 , 23, 2739-2751	1.7	14
26	In-plane vibration of FG micro/nano-mass sensor based on nonlocal theory under various thermal loading via differential transformation method. <i>Superlattices and Microstructures</i> , 2017 , 101, 23-39	2.8	13
25	Vibrational response of functionally graded circular plate integrated with piezoelectric layers: An exact solution. <i>Engineering Solid Mechanics</i> , 2014 , 2, 119-130	1.3	13
24	On the Flexural Vibration of Pre-Stressed Nanobeams Based on a Nonlocal Theory. <i>Acta Physica Polonica A</i> , 2014 , 125, 532-533	0.6	13
23	Axial Vibration of Cracked Nanorods Embedded in Elastic Foundation Based on a Nonlocal Elasticity Model. <i>Sensor Letters</i> , 2016 , 14, 1019-1025	0.9	13
22	Study the Buckling of Functionally Graded Nanobeams in Elastic Medium with Surface Effects Based on a Nonlocal Theory. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 3162-3170 ^{0.3}		10
21	On the Vibrational Behavior of Piezoelectric Nano-Beams. <i>Advanced Materials Research</i> , 2013 , 829, 790-794		10

20	Bending behavior of sandwich structures with flexible functionally graded core based on high-order sandwich panel theory. <i>Meccanica</i> , 2016 , 51, 1093-1112	2.1	9
19	Nonlinear forced vibration of a curved micro beam with a surface-mounted light-driven actuator. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 91, 105420	3.7	9
18	Experimental and finite element analysis of higher order behaviour of sandwich beams using digital projection moiré. <i>Polymer Testing</i> , 2014 , 38, 7-17	4.5	9
17	Transient bending analysis of a functionally graded circular plate with integrated surface piezoelectric layers 2014 , 9,		8
16	Evaluation of nonlocal higher order shear deformation models for the vibrational analysis of functionally graded nanostructures. <i>Mechanics of Advanced Materials and Structures</i> , 2017 , 24, 1116-1123	1.8	7
15	High-Order Modeling of Circular Cylindrical Composite Sandwich Shells with a Transversely Compliant Core Subjected to Low Velocity Impact. <i>Mechanics of Advanced Materials and Structures</i> , 2014 , 21, 680-695	1.8	7
14	Frequency Analysis of Nano Sandwich Structure with Nonlocal Effect. <i>Advanced Materials Research</i> , 2013 , 829, 231-235	0.5	7
13	Buckling analysis of multi-layered graphene sheets based on a continuum mechanics model. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	6
12	An analytical solution for bending, buckling, and free vibration of FG nanobeam lying on Winkler-Pasternak elastic foundation using different nonlocal higher order shear deformation beam theories. <i>Scientia Iranica</i> , 2017 , 24, 1635-1653	1.5	6
11	Bending analysis of sandwich plates with composite face sheets and compliance functionally graded syntactic foam core. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016 , 230, 3606-3630	1.3	5
10	Analytical Solution for Free Vibration of Sandwich Structures with a Functionally Graded Syntactic Foam Core. <i>Materials Science Forum</i> , 2010 , 636-637, 1143-1149	0.4	5
9	Low-velocity impact response of sandwich cylindrical panels with nanotube-reinforced and metal face sheet in thermal environment. <i>Aeronautical Journal</i> , 2018 , 122, 1943-1966	0.9	4
8	A closed-form solution for the bending analysis of composite sandwich pipe with compliance core based on high-order sandwich theory. <i>Journal of Sandwich Structures and Materials</i> , 2020 , 22, 1786-1811	2.1	3
7	Experimental study of mechanical behavior for GLAREs and alloy steel samples against Charpy impact test. <i>Materials Research Express</i> , 2019 , 6, 076529	1.7	2
6	Thermal effect on forced vibration analysis of FG nanobeam subjected to moving load by Laplace transform method. <i>Mechanics Based Design of Structures and Machines</i> , 1-20	1.7	2
5	Estimation of residual tensile strength of composite laminate after low-velocity impact using visually inspection. <i>Engineering Failure Analysis</i> , 2021 , 131, 105898	3.2	1
4	The effect of thickness on the multiwalled carbon nanotubes performance in glass/epoxy composite laminates under dynamic loading. <i>Polymer Composites</i> ,	3	1
3	Molecular dynamics of axial interwall van der Waals force and mechanical vibration of double-walled carbon nanotubes. <i>Materials Today Communications</i> , 2021 , 28, 102708	2.5	1

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| 2 | Nitinol wire-reinforced GLAREs as a novel impact resistant material: An experimental study. <i>Composite Structures</i> , 2021 , 276, 114521 | 5.3 | o |
| 1 | Calibration of nonlocal generalized helical beam model for free vibration analysis of coiled carbon nanotubes via molecular dynamics simulations. <i>Mechanics of Advanced Materials and Structures</i> , 1-25 | 1.8 | o |