Omid Rahmani

List of Publications by Year in Descending Order

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	Estimation of residual tensile strength of composite laminate after low-velocity impact using visually inspection. *Engineering Failure Analysis*, **2021**, 131, 105898	3.2	1
54	Molecular dynamics of axial interwall van der Waals force and mechanical vibration of double-walled carbon nanotubes. *Materials Today Communications*, **2021**, 28, 102708	2.5	1
53	Nitinol wire-reinforced GLAREs as a novel impact resistant material: An experimental study. *Composite Structures*, **2021**, 276, 114521	5.3	0
52	Nonlinear forced vibration of a curved micro beam with a surface-mounted light-driven actuator. *Communications in Nonlinear Science and Numerical Simulation*, **2020**, 91, 105420	3.7	9
51	A closed-form solution for the bending analysis of composite sandwich pipe with compliance core based on high-order sandwich theory. *Journal of Sandwich Structures and Materials*, **2020**, 22, 1786-1811	2.1	3
50	Experimental study of mechanical behavior for GLAREs and alloy steel samples against Charpy impact test. *Materials Research Express*, **2019**, 6, 076529	1.7	2
49	On nonlinear forced vibration of nano cantilever-based biosensor via couple stress theory. *Mechanical Systems and Signal Processing*, **2019**, 128, 19-36	7.8	14
48	Dynamic response of a single-walled carbon nanotube under a moving harmonic load by considering modified nonlocal elasticity theory. *European Physical Journal Plus*, **2018**, 133, 1	3.1	20
47	Nonlinear low-velocity impact analysis of functionally graded nanotube-reinforced composite cylindrical shells in thermal environments. *Polymer Composites*, **2018**, 39, 730-745	3	19
46	Low-velocity impact response of sandwich cylindrical panels with nanotube-reinforced and metal face sheet in thermal environment. *Aeronautical Journal*, **2018**, 122, 1943-1966	0.9	4
45	Coupled twist–bending static and dynamic behavior of a curved single-walled carbon nanotube based on nonlocal theory. *Microsystem Technologies*, **2017**, 23, 2393-2401	1.7	14
44	Buckling analysis of multi-layered graphene sheets based on a continuum mechanics model. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	6
43	Size-dependent free vibration analysis of functionally graded piezoelectric plate subjected to thermo-electro-mechanical loading. *Journal of Intelligent Material Systems and Structures*, **2017**, 28, 3039-3053	2.3	26
42	Buckling and free vibration of shallow curved micro/nano-beam based on strain gradient theory under thermal loading with temperature-dependent properties. *Applied Physics A: Materials Science and Processing*, **2017**, 123, 1	2.6	24
41	In-plane vibration of FG micro/nano-mass sensor based on nonlocal theory under various thermal loading via differential transformation method. *Superlattices and Microstructures*, **2017**, 101, 23-39	2.8	13
40	Evaluation of nonlocal higher order shear deformation models for the vibrational analysis of functionally graded nanostructures. *Mechanics of Advanced Materials and Structures*, **2017**, 24, 1116-1123	1.8	7
39	Dynamic response of a double, single-walled carbon nanotube under a moving nanoparticle based on modified nonlocal elasticity theory considering surface effects. *Mechanics of Advanced Materials and Structures*, **2017**, 24, 1274-1291	1.8	21

38	Buckling of double functionally-graded nanobeam system under axial load based on nonlocal theory: an analytical approach. *Microsystem Technologies*, **2017**, 23, 2739-2751	1.7	14
37	Exact solution for axial and transverse dynamic response of functionally graded nanobeam under moving constant load based on nonlocal elasticity theory. *Meccanica*, **2017**, 52, 1441-1457	2.1	25
36	Assessment of various nonlocal higher order theories for the bending and buckling behavior of functionally graded nanobeams. *Steel and Composite Structures*, **2017**, 23, 339-350		19
35	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. *Scientia Iranica*, **2017**, 24, 1635-1653	1.5	6
34	Bending behavior of sandwich structures with flexible functionally graded core based on high-order sandwich panel theory. *Meccanica*, **2016**, 51, 1093-1112	2.1	9
33	Thermomechanical vibration of curved functionally graded nanobeam based on nonlocal elasticity. *Journal of Thermal Stresses*, **2016**, 39, 1252-1267	2.2	26
32	Bending analysis of sandwich plates with composite face sheets and compliance functionally graded syntactic foam core. *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, **2016**, 230, 3606-3630	1.3	5
31	Free vibration of shallow and deep curved FG nanobeam via nonlocal Timoshenko curved beam model. *Applied Physics A: Materials Science and Processing*, **2016**, 122, 1	2.6	52
30	Free vibration analysis of magneto-electro-thermo-elastic nanobeams resting on a Pasternak foundation. *Smart Materials and Structures*, **2016**, 25, 035023	3.4	42
29	Axial Vibration of Cracked Nanorods Embedded in Elastic Foundation Based on a Nonlocal Elasticity Model. *Sensor Letters*, **2016**, 14, 1019-1025	0.9	13
28	Surface Effects on Buckling of Double Nanobeam System Based on Nonlocal Timoshenko Model. *International Journal of Structural Stability and Dynamics*, **2016**, 16, 1550077	1.9	25
27	An Analytical Solution for Free Vibration of Piezoelectric Nanobeams Based on a Nonlocal Elasticity Theory. *Journal of Mechanics*, **2016**, 32, 143-151	1	18
26	Frequency analysis of curved nano-sandwich structure based on a nonlocal model. *Modern Physics Letters B*, **2016**, 30, 1650136	1.6	16
25	Vibration analysis of functionally graded piezoelectric nanoscale plates by nonlocal elasticity theory: An analytical solution. *Superlattices and Microstructures*, **2016**, 100, 57-75	2.8	29
24	Buckling analysis of functionally graded nanobeams based on a nonlocal third-order shear deformation theory. *Applied Physics A: Materials Science and Processing*, **2015**, 119, 1019-1032	2.6	57
23	Torsional Vibration of Cracked Nanobeam Based on Nonlocal Stress Theory with Various Boundary Conditions: An Analytical Study. *International Journal of Applied Mechanics*, **2015**, 07, 1550036	2.4	25
22	On the buckling behavior of piezoelectric nanobeams: An exact solution. *Journal of Mechanical Science and Technology*, **2015**, 29, 3175-3182	1.6	18
21	Analytical Solution for Free Vibration of Laminated Curved Beam with Magnetostrictive Layers. *International Journal of Applied Mechanics*, **2015**, 07, 1550050	2.4	18

#	Reference	IF	Cites
20	Study the Buckling of Functionally Graded Nanobeams in Elastic Medium with Surface Effects Based on a Nonlocal Theory. *Journal of Computational and Theoretical Nanoscience*, **2015**, 12, 3162-3170	0.3	10
19	Active vibration control of nanotube structures under a moving nanoparticle based on the nonlocal continuum theories. *Meccanica*, **2015**, 50, 1351-1369	2.1	29
18	Transient bending analysis of a functionally graded circular plate with integrated surface piezoelectric layers **2014**, 9,		8
17	Modeling and active vibration suppression of a single-walled carbon nanotube subjected to a moving harmonic load based on a nonlocal elasticity theory. *Applied Physics A: Materials Science and Processing*, **2014**, 117, 1547-1555	2.6	21
16	Vibrational response of functionally graded circular plate integrated with piezoelectric layers: An exact solution. *Engineering Solid Mechanics*, **2014**, 2, 119-130	1.3	13
15	Experimental and finite element analysis of higher order behaviour of sandwich beams using digital projection moir *Polymer Testing*, **2014**, 38, 7-17	4.5	9
14	On the Flexural Vibration of Pre-Stressed Nanobeams Based on a Nonlocal Theory. *Acta Physica Polonica A*, **2014**, 125, 532-533	0.6	13
13	High-Order Modeling of Circular Cylindrical Composite Sandwich Shells with a Transversely Compliant Core Subjected to Low Velocity Impact. *Mechanics of Advanced Materials and Structures*, **2014**, 21, 680-695	1.8	7
12	Analysis and modeling the size effect on vibration of functionally graded nanobeams based on nonlocal Timoshenko beam theory. *International Journal of Engineering Science*, **2014**, 77, 55-70	5.7	234
11	Exact solution for Transient bending of a circular plate integrated with piezoelectric layers. *Applied Mathematical Modelling*, **2013**, 37, 7154-7163	4.5	14
10	Frequency Analysis of Nano Sandwich Structure with Nonlocal Effect. *Advanced Materials Research*, **2013**, 829, 231-235	0.5	7
9	On the Vibrational Behavior of Piezoelectric Nano-Beams. *Advanced Materials Research*, **2013**, 829, 790-794	0.5	10
8	A high-order theory for the analysis of circular cylindrical composite sandwich shells with transversely compliant core subjected to external loads. *Composite Structures*, **2012**, 94, 2129-2142	5.3	36
7	Finite element modeling of low-velocity impact on laminated composite plates and cylindrical shells. *Composite Structures*, **2011**, 93, 1363-1375	5.3	66
6	Analytical Solution for Free Vibration of Sandwich Structures with a Functionally Graded Syntactic Foam Core. *Materials Science Forum*, **2010**, 636-637, 1143-1149	0.4	5
5	Free vibration response of composite sandwich cylindrical shell with flexible core. *Composite Structures*, **2010**, 92, 1269-1281	5.3	66
4	Free vibration analysis of sandwich structures with a flexible functionally graded syntactic core. *Composite Structures*, **2009**, 91, 229-235	5.3	54
3	Thermal effect on forced vibration analysis of FG nanobeam subjected to moving load by Laplace transform method. *Mechanics Based Design of Structures and Machines*,1-20	1.7	2

| 2 | The effect of thickness on the multiwalled carbon nanotubes performance in glass/epoxy composite laminates under dynamic loading. *Polymer Composites,* | 3 | 1 |
| 1 | Calibration of nonlocal generalized helical beam model for free vibration analysis of coiled carbon nanotubes via molecular dynamics simulations. *Mechanics of Advanced Materials and Structures,* 1-25 | 1.8 | 0 |