Shahrokh Hosseini Hashemi

List of Publications by Year
in descending order

111 papers	4,047 citations	109321 35 h-index	144013 57 g-index
111 all docs	111 docs citations	111 times ranked	1574 citing authors

#	Article	IF	Citations
1	Free vibration of functionally graded rectangular plates using first-order shear deformation plate theory. Applied Mathematical Modelling, 2010, 34, 1276-1291.	4.2	236
2	A new exact analytical approach for free vibration of Reissnerâ€“Mindlin functionally graded rectangular plates. International Journal of Mechanical Sciences, 2011, 53, 11-22.	6.7	190
3	Nonlocal nonlinear free vibration of functionally graded nanobeams. Composite Structures, 2014, 110, 192-199.	5.8	151
4	Exact characteristic equations for some of classical boundary conditions of vibrating moderately thick rectangular plates. International Journal of Solids and Structures, 2005, 42, 819-853.	2.7	123
5	Study on the free vibration of thick functionally graded rectangular plates according to a new exact closed-form procedure. Composite Structures, 2011, 93, 722-735.	5.8	102
6	Exact solution for linear buckling of rectangular Mindlin plates. Journal of Sound and Vibration, 2008, 315, 318-342.	3.9	97
7	An exact analytical solution for free vibration of functionally graded circular/annular Mindlin nanoplates via nonlocal elasticity. Composite Structures, 2013, 103, 108-118.	5.8	93
8	An analytical study on the nonlinear free vibration of functionally graded nanobeams incorporating surface effects. Composites Part B: Engineering, 2013, 52, 199-206.	12.0	92
9	An exact analytical approach for free vibration of Mindlin rectangular nano-plates via nonlocal elasticity. Composite Structures, 2013, 100, 290-299.	5.8	88
10	Exact solutions for free flexural vibration of LÃ©vy-type rectangular thick plates via third-order shear deformation plate theory. Applied Mathematical Modelling, 2011, 35, 708-727.	4.2	87
11	A novel approach for in-plane/out-of-plane frequency analysis of functionally graded circular/annular plates. International Journal of Mechanical Sciences, 2010, 52, 1025-1035.	6.7	85
12	Free vibration analysis of rotating thick plates. Journal of Sound and Vibration, 2009, 323, 366-384.	3.9	75
13	Surface effects on nonlinear free vibration of functionally graded nanobeams using nonlocal elasticity. Applied Mathematical Modelling, 2014, 38, 3538-3553.	4.2	73
14	Exact solutions for rectangular Mindlin plates under in-plane loads resting on Pasternak elastic foundation. Part II: Frequency analysis. Computational Materials Science, 2009, 44, 951-961.	3.0	72
15	Buckling analysis of micro/nanoscale plates via nonlocal elasticity theory. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1400-1404.	2.7	71
16	Analytical closed-form solutions for size-dependent static pull-in behavior in electrostatic micro-actuators via Fredholm integral equation. Sensors and Actuators A: Physical, 2013, 190, 32-43.	4.1	71
17	Vibration analysis of radially FGM sectorial plates of variable thickness on elastic foundations. Composite Structures, 2010, 92, 1734-1743.	5.8	69
18	Surface effects on free vibration of piezoelectric functionally graded nanobeams using nonlocal elasticity. Acta Mechanica, 2014, 225, 1555-1564.	2.1	69

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19	Vibration analysis of rectangular Mindlin plates on elastic foundations and vertically in contact with stationary fluid by the Ritz method. Ocean Engineering, 2010, 37, 174-185.	4.3	64
20	Natural frequencies of rectangular Mindlin plates coupled with stationary fluid. Applied Mathematical Modelling, 2012, 36, 764-778.	4.2	60
21	Dynamic response of biaxially loaded double-layer viscoelastic orthotropic nanoplate system under a moving nanoparticle. International Journal of Engineering Science, 2017, 115, 51-72.	5.0	60
22	Exact solutions for rectangular Mindlin plates under in-plane loads resting on Pasternak elastic foundation. Part I: Buckling analysis. Computational Materials Science, 2009, 44, 968-978.	3.0	56
23	Accurate natural frequencies and critical speeds of a rotating functionally graded moderately thick cylindrical shell. International Journal of Mechanical Sciences, 2013, 76, 9-20.	6.7	53
24	An analytical study on the buckling and free vibration of rectangular nanoplates using nonlocal third-order shear deformation plate theory. European Journal of Mechanics, A/Solids, 2015, 51, 29-43.	3.7	51
25	Free vibration analysis of multi-layer graphene nanoribbons incorporating interlayer shear effect via molecular dynamics simulations and nonlocal elasticity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 3225-3232.	2.1	50
26	Nonlocal nonlinear free vibration of nanobeams with surface effects. European Journal of Mechanics, A/Solids, 2015, 52, 44-53.	3.7	49
27	On the free vibrations of size-dependent closed micro/nano-spherical shell based on the modified couple stress theory. International Journal of Mechanical Sciences, 2016, 115-116, 501-515.	6.7	48
28	Size dependent vibro-buckling of rotating beam based on modified couple stress theory. Composite Structures, 2016, 143, 75-83.	5.8	45
29	An accurate mathematical study on the free vibration of stepped thickness circular/annular Mindlin functionally graded plates. Applied Mathematical Modelling, 2013, 37, 4147-4164.	4.2	44
30	On the carbon nanotube mass nanosensor by integral form of nonlocal elasticity. International Journal of Mechanical Sciences, 2019, 150, 445-457.	6.7	44
31	On the local/nonlocal piezoelectric nanobeams: Vibration, buckling, and energy harvesting. Mechanical Systems and Signal Processing, 2021, 151, 107432.	8.0	44
32	3-D free vibration analysis of annular plates on Pasternak elastic foundation via p-Ritz method. Journal of Sound and Vibration, 2008, 311, 1114-1140.	3.9	42
33	Closed-form vibration analysis of thick annular functionally graded plates with integrated piezoelectric layers. International Journal of Mechanical Sciences, 2010, 52, 410-428.	6.7	42
34	Finite cylinder vibrations with different end boundary conditions. Journal of Sound and Vibration, 2006, 297, 293-314.	3.9	40
35	An analytical study on the nonlinear free vibration of nanoscale beams incorporating surface density effects. Composites Part B: Engineering, 2012, 43, 2893-2897.	12.0	38
36	An exact analytical solution for freely vibrating piezoelectric coupled circular/annular thick plates using Reddy plate theory. Composite Structures, 2010, 92, 1333-1351.	5.8	37

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37	The size-dependent analysis of multilayered microbridge systems under a moving load/mass based on the modified couple stress theory. European Physical Journal Plus, 2017, 132, 1.	2.6	37
38	Buckling of circular/annular Mindlin nanoplates via nonlocal elasticity. Acta Mechanica, 2013, 224, 2663-2676.	2.1	36
39	Dynamic Behavior of Multi-Layered Viscoelastic Nanobeam System Embedded in a Viscoelastic Medium with a Moving Nanoparticle. Journal of Mechanics, 2017, 33, 559-575.	1.4	36
40	Buckling analysis of nonuniform nonlocal strain gradient beams using generalized differential quadrature method. AEJ - Alexandria Engineering Journal, 2018, 57, 1361-1368.	6.4	36
41	On the free vibration of moderately thick spherical shell panelâ€"A new exact closed-form procedure. Journal of Sound and Vibration, 2011, 330, 4352-4367.	3.9	35
42	Buckling analysis of tapered nanobeams using nonlocal strain gradient theory and a generalized differential quadrature method. Materials Research Express, 2017, 4, 065003.	1.6	34
43	Exact closed-form frequency equations for thick circular plates using a third-order shear deformation theory. Journal of Sound and Vibration, 2010, 329, 3382-3396.	3.9	33
44	Natural frequency analysis of functionally graded rectangular nanoplates with different boundary conditions via an analytical method. Meccanica, 2015, 50, 2391-2408.	2.0	33
45	Dynamic response of multiple nanobeam system under a moving nanoparticle. AEJ - Alexandria Engineering Journal, 2018, 57, 343-356.	6.4	32
46	Thermal vibration and buckling analysis of two-phase nanobeams embedded in size dependent elastic medium. International Journal of Mechanical Sciences, 2020, 171, 105381.	6.7	32
47	Free vibration and biaxial buckling analysis of magneto-electro-elastic microplate resting on visco-Pasternak substrate via modified strain gradient theory. Smart Materials and Structures, 2016, 25, 105035.	3.5	31
48	Identification of the validity range of Donnell and Sanders shell theories using an exact vibration analysis of functionally graded thick cylindrical shell panel. Acta Mechanica, 2012, 223, 1101-1118.	2.1	30
49	Dynamic behavior of thin and thick cracked nanobeams incorporating surface effects. Composites Part B: Engineering, 2014, 61, 66-72.	12.0	30
50	Dynamic transverse vibration characteristics of nonuniform nonlocal strain gradient beams using the generalized differential quadrature method. European Physical Journal Plus, 2017, 132, 1.	2.6	30
51	Free vibrations of functionally graded viscoelastic cylindrical panel under various boundary conditions. Composite Structures, 2015, 126, 1-15.	5.8	29
52	Bending and free vibration analysis of nanobeams by differential and integral forms of nonlocal strain gradient with Rayleighâ€"Ritz method. Materials Research Express, 2017, 4, 125025.	1.6	29
53	Exact solution for free vibrations of spinning nanotube based on nonlocal first order shear deformation shell theory. Composite Structures, 2016, 157, 1-11.	5.8	28
54	Dynamic stability and vibration of two-phase local/nonlocal VFGP nanobeams incorporating surface effects and different boundary conditions. Mechanics of Materials, 2021, 153, 103633.	3.2	28

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55	Free vibration analysis of LÃ©vy-type functionally graded spherical shell panel using a new exact closed-form solution. International Journal of Mechanical Sciences, 2013, 77, 227-238.	6.7	27
56	Vibration analysis of mass nanosensors with considering the axial-flexural coupling based on the two-phase local/nonlocal elasticity. Mechanical Systems and Signal Processing, 2020, 145, 106931.	8.0	26
57	Hydroelastic vibration and buckling of rectangular Mindlin plates on Pasternak foundations under linearly varying in-plane loads. Soil Dynamics and Earthquake Engineering, 2010, 30, 1487-1499.	3.8	25
58	Free vibrations of thin rectangular nano-plates using wave propagation approach. Applied Mathematical Modelling, 2016, 40, 1287-1299.	4.2	25
59	Aeroelastic behavior of cantilevered rotating rectangular plates. International Journal of Mechanical Sciences, 2011, 53, 316-328.	6.7	24
60	Vibration analysis of piezoelectric FGM sensors using an accurate method. International Journal of Mechanical Sciences, 2011, 53, 585-594.	6.7	24
61	Nonlinear vibration analysis of two-phase local/nonlocal nanobeams with size-dependent nonlinearity by using Galerkin method. JVC/Journal of Vibration and Control, 2021, 27, 378-391.	2.6	23
62	Vibration analysis of two-phase local/nonlocal viscoelastic nanobeams with surface effects. European Physical Journal Plus, 2020, 135, 1.	2.6	23
63	An exact analytical approach for in-plane and out-of-plane free vibration analysis of thick laminated transversely isotropic plates. Archive of Applied Mechanics, 2012, 82, 677-698.	2.2	22
64	Analytical and molecular dynamics studies on the impact loading of single-layered graphene sheet by fullerene. Applied Surface Science, 2018, 437, 366-374.	6.1	22
65	Dynamic analysis of nano-beams embedded in a varying nonlinear elastic environment using Eringenâ€™s two-phase local/nonlocal model. European Physical Journal Plus, 2018, 133, 1.	2.6	22
66	Nonlocal surface energy effect on free vibration behavior of nanoplates submerged in incompressible fluid. Thin-Walled Structures, 2019, 143, 106212.	5.3	22
67	Size-dependent resonant response of a double-layered viscoelastic nanoresonator under electrostatic and piezoelectric actuations incorporating surface effects and Casimir regime. International Journal of Non-Linear Mechanics, 2019, 109, 118-131.	2.6	22
68	Forced vibration of nanoplate on viscoelastic substrate with consideration of structural damping: An analytical solution. Composite Structures, 2015, 133, 8-15.	5.8	21
69	Application of the generalized Hooke's law for viscoelastic materials (GHVMs) in nonlocal free damped vibration analysis of viscoelastic orthotropic nanoplates. International Journal of Mechanical Sciences, 2017, 124-125, 158-165.	6.7	21
70	Exact free vibration study of rectangular Mindlin plates with all-over part-through open cracks. Computers and Structures, 2010, 88, 1015-1032.	4.4	20
71	Exact three-dimensional free vibration analysis of thick homogeneous plates coated by a functionally graded layer. Acta Mechanica, 2012, 223, 2153-2166.	2.1	20
72	On the effects of coupling between in-plane and out-of-plane vibrating modes of smart functionally graded circular/annular plates. Applied Mathematical Modelling, 2012, 36, 1132-1147.	4.2	20

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73	Sandwich beam model for free vibration analysis of bilayer graphene nanoribbons with interlayer shear effect. Journal of Applied Physics, 2014, 115, .	2.5	20
74	A 3-D Ritz solution for free vibration of circular/annular functionally graded plates integrated with piezoelectric layers. International Journal of Engineering Science, 2010, 48, 1971-1984.	5.0	19
75	Buckling of FG circular/annular Mindlin nanoplates with an internal ring support using nonlocal elasticity. Applied Mathematical Modelling, 2016, 40, 3185-3210.	4.2	16
76	Out-of-plane motion detection in encapsulated electrostatic MEMS gyroscopes: Principal parametric resonance. International Journal of Mechanical Sciences, 2021, 190, 106022.	6.7	16
77	Exact acoustical analysis of vibrating rectangular plates with two opposite edges simply supported via Mindlin plate theory. Journal of Sound and Vibration, 2009, 322, 883-900.	3.9	15
78	Closed-form solution for free vibration of piezoelectric coupled annular plates using Levinson plate theory. Journal of Sound and Vibration, 2010, 329, 1390-1408.	3.9	15
79	Nonlinear free vibration analysis of Timoshenko nanobeams with surface energy. Meccanica, 2015, 50, 1027-1044.	2.0	15
80	Torsional vibrations investigation of nonlinear nonlocal behavior in terms of functionally graded nanotubes. International Journal of Non-Linear Mechanics, 2020, 124, 103513.	2.6	15
81	Sound transmission into a thick hollow cylinder with the fixed-end boundary condition. Applied Mathematical Modelling, 2009, 33, 1656-1673.	4.2	13
82	Molecular dynamics simulation for interlayer interactions of graphene nanoribbons with multiple layers. Superlattices and Microstructures, 2016, 98, 228-234.	3.1	13
83	A new generic exact solution for free vibration of functionally graded moderately thick doubly curved shallow shell panel. JVC/Journal of Vibration and Control, 2016, 22, 3355-3367.	2.6	13
84	Vibration of two-phase local/nonlocal Timoshenko nanobeams with an efficient shear-locking-free finite-element model and exact solution. Engineering With Computers, 2022, 38, 231-245.	6.1	13
85	Nonlinear free vibration of piezoelectric nanobeams incorporating surface effects. Smart Materials and Structures, 2014, 23, 035012.	3.5	12
86	Sandwich plate model of multilayer graphene sheets for considering interlayer shear effect in vibration analysis via molecular dynamics simulations. Applied Mathematical Modelling, 2017, 47, 459-472.	4.2	12
87	Elastic impact response of a nonlocal rectangular plate. International Journal of Solids and Structures, 2017, 109, 93-100.	2.7	11
88	Analytical and FEM solutions for free vibration of joined cross-ply laminated thick conical shells using shear deformation theory. Archive of Applied Mechanics, 2018, 88, 2231-2246.	2.2	11
89	On the vibration of nanobeams with consistent two-phase nonlocal strain gradient theory: exact solution and integral nonlocal finite-element model. Engineering With Computers, 2020, , 1.	6.1	10
90	Thermal stress and magnetic effects on nonlinear vibration of nanobeams embedded in nonlinear elastic medium. Journal of Thermal Stresses, 2020, 43, 1316-1332.	2.0	10

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91	Vibrations of defected local/nonlocal nanobeams surrounded with two-phase Winklerâ€“Pasternak medium: non-classic compatibility conditions and exact solution. Waves in Random and Complex Media, 0, , 1-36.	2.7	10
92	Axisymmetric/asymmetric buckling of functionally graded circular/annular Mindlin nanoplates via nonlocal elasticity. Meccanica, 2015, 50, 1791-1806.	2.0	8
93	Effect of nonlocal elasticity on vibration analysis of multi-layer graphene sheets using sandwich model. European Journal of Mechanics, A/Solids, 2018, 70, 75-85.	3.7	8
94	Efficient large amplitude primary resonance in in-extensional nanocapacitors: Nonlinear mean curvature component. Scientific Reports, 2019, 9, 20256.	3.3	8
95	On the numerical investigation of size and surface effects on nonlinear dynamics of a nanoresonator under electrostatic actuation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	8
96	Study on tensile-compressive and shear effects of van der Waals interactions on free vibration of bilayer graphene nanoribbons. Meccanica, 2017, 52, 263-282.	2.0	7
97	Temperature change effect on torsional vibration of nanorods embedded in an elastic medium using Rayleighâ€“Ritz method. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	7
98	Vibration analysis of stress-driven nonlocal integral model of viscoelastic axially FG nanobeams. European Physical Journal Plus, 2020, 135, 1.	2.6	6
99	Effect of temperature on vibration of cracked single-walled carbon nanotubes embedded in an elastic medium under different boundary conditions. Mechanics Based Design of Structures and Machines, 2022, 50, 1614-1639.	4.7	6
100	Effects of Size, Surface Energy and Casimir Force on the Superharmonic Resonance Characteristics of a Double-Layered Viscoelastic NEMS Device Under Piezoelectric Actuations. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 343-355.	1.3	5
101	Nonlinear size-dependent dynamic buckling analysis of embedded micro cylindrical shells reinforced with agglomerated CNTs using strain gradient theory. Microsystem Technologies, 2017, 23, 5727-5744.	2.0	4
102	Longitudinal vibrations of aluminum nanobeams by applying elastic moduli of bulk and surface: molecular dynamics simulation and continuum model. Materials Research Express, 2017, 4, 085036.	1.6	4
103	Three-Dimensional Thermal Stress Effects on Nonlinear Torsional Vibration of Carbon Nanotubes Embedded in an Elastic Medium. Nanoscale and Microscale Thermophysical Engineering, 2021, 25, 179-206.	2.6	4
104	Thermal stress effects on size-dependent nonlinear axial vibrations of nanorods exposed to magnetic fields surrounded by nonlinear elastic medium. Journal of Thermal Stresses, 2022, 45, 139-153.	2.0	4
105	Nonlinear nano-rod-type analysis of internal resonances and geometrically considering nonlocal and inertial effects in terms of Rayleigh axial vibrations. European Physical Journal Plus, 2022, 137, 1.	2.6	3
106	Impact of nanostructures on the superharmonic resonance characteristics of nanobeam-based capacitors: Analytical approach. International Journal of Solids and Structures, 2020, 207, 11-21.	2.7	2
107	Effect of thermal axial load on vibration of cracked single-walled carbon nanotubes modelled as Timoshenko nanobeams using nonlocal theory. Australian Journal of Mechanical Engineering, 0, , 1-12.	2.1	2
108	Exact solution for large amplitude flexural vibration of nanobeams using nonlocal Euler-Bernoulli theory. Journal of Theoretical and Applied Mechanics, 0, , 649.	0.5	2

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109	Effect of a Bonded Patch on Aeroelastic Behavior of Cantilevered Plates. Journal of Applied Mathematics, 2010, 2010, 1-15.	0.9	1
110	Effects of surface tension of graphene sheet on impact and rebound behavior of colliding nanoparticle. Superlattices and Microstructures, 2020, 140, 106464.	3.1	0
111	Free nonlinear vibration analysis of nano-truncated conical shells based on modified strain gradient theory. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072110419.	1.1	0