Shahrokh Hosseini Hashemi

List of Publications by Year
in descending order

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111 papers	4,047 citations	125106 35 h-index	162838 57 g-index
111 all docs	111 docs citations	111 times ranked	1782 citing authors

#	Article	IF	Citations
1	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.	3.5	13
2	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.	3.4	6
3	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.	1.1	4
4	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.	1.2	3
5	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.	1.5	23
6	Dynamic stability and vibration of two-phase local/nonlocal VFGP nanobeams incorporating surface effects and different boundary conditions. Mechanics of Materials, 2021, 153, 103633.	1.7	28
7	Out-of-plane motion detection in encapsulated electrostatic MEMS gyroscopes: Principal parametric resonance. International Journal of Mechanical Sciences, 2021, 190, 106022.	3.6	16
8	On the local/nonlocal piezoelectric nanobeams: Vibration, buckling, and energy harvesting. Mechanical Systems and Signal Processing, 2021, 151, 107432.	4.4	44
9	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.	1.4	4
10	Thermal vibration and buckling analysis of two-phase nanobeams embedded in size dependent elastic medium. International Journal of Mechanical Sciences, 2020, 171, 105381.	3.6	32
11	Impact of nanostructures on the superharmonic resonance characteristics of nanobeam-based capacitors: Analytical approach. International Journal of Solids and Structures, 2020, 207, 11-21.	1.3	2
12	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.	3.5	10
13	Vibration analysis of stress-driven nonlocal integral model of viscoelastic axially FG nanobeams. European Physical Journal Plus, 2020, 135, 1.	1.2	6
14	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.	0.8	7
15	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.	4.4	26
16	Thermal stress and magnetic effects on nonlinear vibration of nanobeams embedded in nonlinear elastic medium. Journal of Thermal Stresses, 2020, 43, 1316-1332.	1.1	10
17	Effects of surface tension of graphene sheet on impact and rebound behavior of colliding nanoparticle. Superlattices and Microstructures, 2020, 140, 106464.	1.4	0
18	Torsional vibrations investigation of nonlinear nonlocal behavior in terms of functionally graded nanotubes. International Journal of Non-Linear Mechanics, 2020, 124, 103513.	1.4	15

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19	Vibration analysis of two-phase local/nonlocal viscoelastic nanobeams with surface effects. European Physical Journal Plus, 2020, 135, 1.	1.2	23
20	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.	0.8	5
21	Nonlocal surface energy effect on free vibration behavior of nanoplates submerged in incompressible fluid. Thin-Walled Structures, 2019, 143, 106212.	2.7	22
22	Efficient large amplitude primary resonance in in-extensional nanocapacitors: Nonlinear mean curvature component. Scientific Reports, 2019, 9, 20256.	1.6	8
23	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.	1.4	22
24	On the carbon nanotube mass nanosensor by integral form of nonlocal elasticity. International Journal of Mechanical Sciences, 2019, 150, 445-457.	3.6	44
25	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.	0.8	8
26	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.	2.1	8
27	Analytical and molecular dynamics studies on the impact loading of single-layered graphene sheet by fullerene. Applied Surface Science, 2018, 437, 366-374.	3.1	22
28	Dynamic response of multiple nanobeam system under a moving nanoparticle. AEJ - Alexandria Engineering Journal, 2018, 57, 343-356.	3.4	32
29	Buckling analysis of nonuniform nonlocal strain gradient beams using generalized differential quadrature method. AEJ - Alexandria Engineering Journal, 2018, 57, 1361-1368.	3.4	36
30	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.	1.2	22
31	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.	1.2	11
32	Study on tensile-compressive and shear effects of van der Waals interactions on free vibration of bilayer graphene nanoribbons. Meccanica, 2017, 52, 263-282.	1.2	7
33	Elastic impact response of a nonlocal rectangular plate. International Journal of Solids and Structures, 2017, 109, 93-100.	1.3	11
34	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.	3.6	21
35	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.	1.2	4
36	Buckling analysis of tapered nanobeams using nonlocal strain gradient theory and a generalized differential quadrature method. Materials Research Express, 2017, 4, 065003.	0.8	34

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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.	1.2	37
38	Dynamic response of biaxially loaded double-layer viscoelastic orthotropic nanoplate system under a moving nanoparticle. International Journal of Engineering Science, 2017, 115, 51-72.	2.7	60
39	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.	2.2	12
40	Dynamic Behavior of Multi-Layered Viscoelastic Nanobeam System Embedded in a Viscoelastic Medium with a Moving Nanoparticle. Journal of Mechanics, 2017, 33, 559-575.	0.7	36
41	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.	0.8	4
42	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.	0.8	29
43	Dynamic transverse vibration characteristics of nonuniform nonlocal strain gradient beams using the generalized differential quadrature method. European Physical Journal Plus, 2017, 132, 1.	1.2	30
44	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.	1.8	31
45	Exact solution for free vibrations of spinning nanotube based on nonlocal first order shear deformation shell theory. Composite Structures, 2016, 157, 1-11.	3.1	28
46	Molecular dynamics simulation for interlayer interactions of graphene nanoribbons with multiple layers. Superlattices and Microstructures, 2016, 98, 228-234.	1.4	13
47	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.	3.6	48
48	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.	1.5	13
49	Size dependent vibro-buckling of rotating beam based on modified couple stress theory. Composite Structures, 2016, 143, 75-83.	3.1	45
50	Buckling of FG circular/annular Mindlin nanoplates with an internal ring support using nonlocal elasticity. Applied Mathematical Modelling, 2016, 40, 3185-3210.	2.2	16
51	Free vibrations of thin rectangular nano-plates using wave propagation approach. Applied Mathematical Modelling, 2016, 40, 1287-1299.	2.2	25
52	Axisymmetric/asymmetric buckling of functionally graded circular/annular Mindlin nanoplates via nonlocal elasticity. Meccanica, 2015, 50, 1791-1806.	1.2	8
53	Nonlocal nonlinear free vibration of nanobeams with surface effects. European Journal of Mechanics, A/Solids, 2015, 52, 44-53.	2.1	49
54	Free vibrations of functionally graded viscoelastic cylindrical panel under various boundary conditions. Composite Structures, 2015, 126, 1-15.	3.1	29

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55	Forced vibration of nanoplate on viscoelastic substrate with consideration of structural damping: An analytical solution. Composite Structures, 2015, 133, 8-15.	3.1	21
56	Natural frequency analysis of functionally graded rectangular nanoplates with different boundary conditions via an analytical method. Meccanica, 2015, 50, 2391-2408.	1.2	33
57	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.	2.1	51
58	Nonlinear free vibration analysis of Timoshenko nanobeams with surface energy. Meccanica, 2015, 50, 1027-1044.	1.2	15
59	Surface effects on nonlinear free vibration of functionally graded nanobeams using nonlocal elasticity. Applied Mathematical Modelling, 2014, 38, 3538-3553.	2.2	73
60	Nonlocal nonlinear free vibration of functionally graded nanobeams. Composite Structures, 2014, 110, 192-199.	3.1	151
61	Dynamic behavior of thin and thick cracked nanobeams incorporating surface effects. Composites Part B: Engineering, 2014, 61, 66-72.	5.9	30
62	Surface effects on free vibration of piezoelectric functionally graded nanobeams using nonlocal elasticity. Acta Mechanica, 2014, 225, 1555-1564.	1.1	69
63	Sandwich beam model for free vibration analysis of bilayer graphene nanoribbons with interlayer shear effect. Journal of Applied Physics, 2014, 115, .	1.1	20
64	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.	0.9	50
65	Nonlinear free vibration of piezoelectric nanobeams incorporating surface effects. Smart Materials and Structures, 2014, 23, 035012.	1.8	12
66	An exact analytical solution for free vibration of functionally graded circular/annular Mindlin nanoplates via nonlocal elasticity. Composite Structures, 2013, 103, 108-118.	3.1	93
67	Accurate natural frequencies and critical speeds of a rotating functionally graded moderately thick cylindrical shell. International Journal of Mechanical Sciences, 2013, 76, 9-20.	3.6	53
68	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.	3.6	27
69	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.	2.0	71
70	An analytical study on the nonlinear free vibration of functionally graded nanobeams incorporating surface effects. Composites Part B: Engineering, 2013, 52, 199-206.	5.9	92
71	An exact analytical approach for free vibration of Mindlin rectangular nano-plates via nonlocal elasticity. Composite Structures, 2013, 100, 290-299.	3.1	88
72	Buckling of circular/annular Mindlin nanoplates via nonlocal elasticity. Acta Mechanica, 2013, 224, 2663-2676.	1.1	36

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73	An accurate mathematical study on the free vibration of stepped thickness circular/annular Mindlin functionally graded plates. Applied Mathematical Modelling, 2013, 37, 4147-4164.	2.2	44
74	An analytical study on the nonlinear free vibration of nanoscale beams incorporating surface density effects. Composites Part B: Engineering, 2012, 43, 2893-2897.	5.9	38
75	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.	1.2	22
76	Exact three-dimensional free vibration analysis of thick homogeneous plates coated by a functionally graded layer. Acta Mechanica, 2012, 223, 2153-2166.	1.1	20
77	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.	1.1	30
78	Natural frequencies of rectangular Mindlin plates coupled with stationary fluid. Applied Mathematical Modelling, 2012, 36, 764-778.	2.2	60
79	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.	2.2	20
80	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.	3.1	102
81	A new exact analytical approach for free vibration of Reissnerâ€“Mindlin functionally graded rectangular plates. International Journal of Mechanical Sciences, 2011, 53, 11-22.	3.6	190
82	Aeroelastic behavior of cantilevered rotating rectangular plates. International Journal of Mechanical Sciences, 2011, 53, 316-328.	3.6	24
83	Vibration analysis of piezoelectric FGM sensors using an accurate method. International Journal of Mechanical Sciences, 2011, 53, 585-594.	3.6	24
84	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.	2.2	87
85	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.	2.1	35
86	Buckling analysis of micro/nanoscale plates via nonlocal elasticity theory. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1400-1404.	1.3	71
87	Exact free vibration study of rectangular Mindlin plates with all-over part-through open cracks. Computers and Structures, 2010, 88, 1015-1032.	2.4	20
88	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.	1.9	64
89	Closed-form solution for free vibration of piezoelectric coupled annular plates using Levinson plate theory. Journal of Sound and Vibration, 2010, 329, 1390-1408.	2.1	15
90	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.	2.1	33

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91	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.	2.7	19
92	Closed-form vibration analysis of thick annular functionally graded plates with integrated piezoelectric layers. International Journal of Mechanical Sciences, 2010, 52, 410-428.	3.6	42
93	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.	3.6	85
94	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.	1.9	25
95	Free vibration of functionally graded rectangular plates using first-order shear deformation plate theory. Applied Mathematical Modelling, 2010, 34, 1276-1291.	2.2	236
96	An exact analytical solution for freely vibrating piezoelectric coupled circular/annular thick plates using Reddy plate theory. Composite Structures, 2010, 92, 1333-1351.	3.1	37
97	Vibration analysis of radially FGM sectorial plates of variable thickness on elastic foundations. Composite Structures, 2010, 92, 1734-1743.	3.1	69
98	Effect of a Bonded Patch on Aeroelastic Behavior of Cantilevered Plates. Journal of Applied Mathematics, 2010, 2010, 1-15.	0.4	1
99	Sound transmission into a thick hollow cylinder with the fixed-end boundary condition. Applied Mathematical Modelling, 2009, 33, 1656-1673.	2.2	13
100	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.	2.1	15
101	Free vibration analysis of rotating thick plates. Journal of Sound and Vibration, 2009, 323, 366-384.	2.1	75
102	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.	1.4	72
103	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.	1.4	56
104	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.	2.1	42
105	Exact solution for linear buckling of rectangular Mindlin plates. Journal of Sound and Vibration, 2008, 315, 318-342.	2.1	97
106	Finite cylinder vibrations with different end boundary conditions. Journal of Sound and Vibration, 2006, 297, 293-314.	2.1	40
107	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.	1.3	123
108	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.	1.6	10

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109	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.	1.5	2
110	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.	0.7	0
111	Exact solution for large amplitude flexural vibration of nanobeams using nonlocal Euler-Bernoulli theory. Journal of Theoretical and Applied Mechanics, 0, , 649.	0.2	2