Seyed Mahmoud Hosseini

List of Publications by Year in Descending Order

76 papers	1,155 citations	18 h-index	30 g-index
83 ext. papers	1,371 ext. citations	2.9 avg, IF	5.35 L-index

#	Paper	IF	Citations
76	Thermal shock-induced Moore-Gibson-Thompson generalized coupled thermoelasticity analysis based on the strain gradient Love-Bishop theory in a nanorod resonator. *Meccanica*, **2022**, 57, 623	2.1	
75	A size-dependent differential quadrature element model for vibration analysis of FG CNT reinforced composite microrods based on the higher order Love-Bishop rod model and the nonlocal strain gradient theory. *Engineering Analysis With Boundary Elements*, **2022**, 138, 235-252	2.6	1
74	Automated design of phononic crystals under thermoelastic wave propagation through deep reinforcement learning. *Engineering Structures*, **2022**, 263, 114385	4.7	0
73	Analysis of a curved Timoshenko nano-beam with flexoelectricity. *Acta Mechanica*, **2021**, 232, 1563-1581	2.1	6
72	Gaussian thermal shock-induced thermoelastic wave propagation in an FG multilayer hybrid nanocomposite cylinder reinforced by GPLs and CNTs. *Thin-Walled Structures*, **2021**, 166, 108108	4.7	5
71	Nonlinear dynamic analysis of FG carbon nanotube/epoxy nanocomposite cylinder with large strains assuming particle/matrix interphase using MLPG method. *Engineering Analysis With Boundary Elements*, **2021**, 132, 126-145	2.6	6
70	Band structure analysis of Green-Naghdi-based thermoelastic wave propagation in cylindrical phononic crystals with energy dissipation using a meshless collocation method. *International Journal of Mechanical Sciences*, **2021**, 209, 106711	5.5	5
69	A data-based comparison of BN-HRA models in assessing human error probability: An offshore evacuation case study. *Reliability Engineering and System Safety*, **2020**, 202, 107043	6.3	16
68	Solution of minimum spanning forest problems with reliability constraints. *Computers and Industrial Engineering*, **2020**, 142, 106365	6.4	0
67	Nonlocal coupled photo-thermoelasticity analysis in a semiconducting micro/nano beam resonator subjected to plasma shock loading: A Green-Naghdi-based analytical solution. *Applied Mathematical Modelling*, **2020**, 88, 631-651	4.5	5
66	Band structure analysis of wave propagation in piezoelectric nano-metamaterials as periodic nano-beams considering the small scale and surface effects. *Acta Mechanica*, **2020**, 231, 2877-2893	2.1	11
65	Nonlocal coupled thermoelastic wave propagation band structures of nano-scale phononic crystal beams based on GN theory with energy dissipation: An analytical solution. *Wave Motion*, **2020**, 92, 102429	1.8	11
64	BN-SLIM: A Bayesian Network methodology for human reliability assessment based on Success Likelihood Index Method (SLIM). *Reliability Engineering and System Safety*, **2020**, 193, 106647	6.3	21
63	Application of hetero junction CNTs as mass nanosensor using nonlocal strain gradient theory: An analytical solution. *Applied Mathematical Modelling*, **2019**, 76, 26-49	4.5	13
62	Active tuning and maximization of natural frequency in three-dimensional functionally graded shape memory alloy composite structures using meshless local Petrov–Galerkin method. *JVC/Journal of Vibration and Control*, **2019**, 25, 2093-2107	2	3
61	Geometrically Nonlinear Analysis of Structures Using Various Higher Order Solution Methods: A Comparative Analysis for Large Deformation. *CMES - Computer Modeling in Engineering and Sciences* , **2019**, 121, 877-907	1.7	2
60	Lateral vibrations of embedded hetero-junction carbon nanotubes based on the nonlocal strain gradient theory: Analytical and differential quadrature element (DQE) methods. *Physica E: Low-Dimensional Systems and Nanostructures*, **2019**, 105, 68-82	3	13

59	Axial vibration of hetero-junction CNTs mass nanosensors by considering the effects of small scale and connecting region: An analytical solution. *Physica B: Condensed Matter*, **2019**, 553, 137-150	2.8	7
58	Anisotropic transient thermoelasticity analysis in a two-dimensional decagonal quasicrystal using meshless local Petrov□Galerkin (MLPG) method. *Applied Mathematical Modelling*, **2019**, 66, 275-295	4.5	10
57	Analytical solution for nonlocal coupled thermoelasticity analysis in a heat-affected MEMS/NEMS beam resonator based on Green□Naghdi theory. *Applied Mathematical Modelling*, **2018**, 57, 21-36	4.5	31
56	Coupled thermoelastic analysis of an FG multilayer graphene platelets-reinforced nanocomposite cylinder using meshless GFD method: A modified micromechanical model. *Engineering Analysis With Boundary Elements*, **2018**, 88, 80-92	2.6	26
55	Path following techniques for geometrically nonlinear structures based on Multi-point methods. *Computers and Structures*, **2018**, 208, 130-142	4.5	9
54	Shock-induced nonlocal coupled thermoelasticity analysis (with energy dissipation) in a MEMS/NEMS beam resonator based on Green□Naghdi theory: A meshless implementation considering small-scale effects. *Journal of Thermal Stresses*, **2017**, 40, 1134-1151	2.2	16
53	Free vibration analysis of dissimilar connected CNTs with atomic imperfections and different locations of connecting region. *Physica B: Condensed Matter*, **2017**, 524, 34-46	2.8	5
52	Shock-induced stochastic dynamic analysis of cylinders made of saturated porous materials using MLPG method: considering uncertainty in mechanical properties. *Acta Mechanica*, **2017**, 228, 3961-3975	2.1	3
51	Application of meshless local integral equations for two-dimensional transient coupled hygrothermoelasticity analysis: Moisture and thermoelastic wave propagations under shock loading. *Journal of Thermal Stresses*, **2017**, 40, 40-54	2.2	7
50	An analytical solution for thermoelastic damping in a micro-beam based on generalized theory of thermoelasticity and modified couple stress theory. *Applied Mathematical Modelling*, **2016**, 40, 3164-3174	4.5	45
49	Geometrically nonlinear dynamic analysis of functionally graded thick hollow cylinders using total Lagrangian MLPG method. *Meccanica*, **2016**, 51, 655-672	2.1	6
48	The effects of connecting region length on the natural frequencies of straight and non-straight hetero-junction carbon nanotubes. *Computational Materials Science*, **2016**, 122, 11-21	3.2	4
47	Generalized coupled non-Fickian/non-Fourierian diffusion-thermoelasticity analysis subjected to shock loading using analytical method. *Structural Engineering and Mechanics*, **2016**, 60, 529-545		2
46	Elastodynamic Analysis of a Hollow Cylinder with Decagonal Quasicrystal Properties: Meshless Implementation of Local Integral Equations. *Crystals*, **2016**, 6, 94	2.3	3
45	Two dimensional analysis of coupled non-Fick diffusion-elastodynamics problems in functionally graded materials using meshless local Petrov□Galerkin (MLPG) method. *Applied Mathematics and Computation*, **2015**, 268, 937-946	2.7	4
44	Shock-induced two dimensional coupled non-Fickian diffusion□elasticity analysis using meshless generalized finite difference (GFD) method. *Engineering Analysis With Boundary Elements*, **2015**, 61, 232-240	2.6	17
43	Geometrically nonlinear elastodynamic analysis of hyper-elastic neo-Hooken FG cylinder subjected to shock loading using MLPG method. *Engineering Analysis With Boundary Elements*, **2015**, 50, 83-96	2.6	9
42	A meshless local Petrov□Galerkin method for nonlinear dynamic analyses of hyper-elastic FG thick hollow cylinder with Rayleigh damping. *Acta Mechanica*, **2015**, 226, 1497-1513	2.1	17

41	Thermoelastic damping in a nonlocal nano-beam resonator as NEMS based on the type III of Green–Naghdi theory (with energy dissipation). *International Journal of Mechanical Sciences*, **2015**, 92, 304-311	5.5	32
40	Two dimensional transient analysis of coupled non-Fick diffusion–thermoelasticity based on Green–Naghdi theory using the meshless local Petrov–Galerkin (MLPG) method. *International Journal of Mechanical Sciences*, **2014**, 82, 74-80	5.5	16
39	Shock-induced molar concentration wave propagation and coupled non-Fick diffusion–elasticity analysis using an analytical method. *Acta Mechanica*, **2014**, 225, 3591-3599	2.1	9
38	Application of a hybrid mesh-free method for shock-induced thermoelastic wave propagation analysis in a layered functionally graded thick hollow cylinder with nonlinear grading patterns. *Engineering Analysis With Boundary Elements*, **2014**, 43, 56-66	2.6	13
37	Two-Dimensional Stress-Wave Propagation in Finite-Length FG Cylinders with Two-Directional Nonlinear Grading Patterns Using the MLPG Method. *Journal of Engineering Mechanics - ASCE*, **2014**, 140, 575-592	2.4	6
36	Elastic wave propagation and time history analysis in FG nanocomposite cylinders reinforced by carbon nanotubes using a hybrid mesh-free method. *Engineering Computations*, **2014**, 31, 1261-1282	1.4	2
35	Application of a hybrid meshless technique for natural frequencies analysis in functionally graded thick hollow cylinder subjected to suddenly thermal loading. *Applied Mathematical Modelling*, **2014**, 38, 425-436	4.5	6
34	Stochastic analysis of elastic wave and second sound propagation in media with Gaussian uncertainty in mechanical properties using a stochastic hybrid mesh-free method. *Structural Engineering and Mechanics*, **2014**, 49, 41-64		4
33	Stochastic hybrid numerical method for transient analysis of stress field in functionally graded thick hollow cylinders subjected to shock loading. *Journal of Mechanical Science and Technology*, **2013**, 27, 1373-1384	1.6	2
32	Elastic wave propagation in a functionally graded nanocomposite reinforced by carbon nanotubes employing meshless local integral equations (LIEs). *Engineering Analysis With Boundary Elements*, **2013**, 37, 1524-1531	2.6	17
31	Response of multiwall carbon nanotubes to impact loading. *Applied Mathematical Modelling*, **2013**, 37, 5359-5370	4.5	7
30	Shock-induced thermoelastic wave propagation analysisin a thick hollow cylinder without energy dissipation using mesh-free generalized finite difference (GFD) method. *Acta Mechanica*, **2013**, 224, 465-478	2.1	6
29	Application of meshless local integral equations to two dimensional analysis of coupled non-Fick diffusion–elasticity. *Engineering Analysis With Boundary Elements*, **2013**, 37, 603-615	2.6	14
28	An analytical solution for thermal shock analysis of multiwall carbon nanotubes. *Computational Materials Science*, **2012**, 61, 291-297	3.2	8
27	Analysis of elastic wave propagation in a functionally graded thick hollow cylinder using a hybrid mesh-free method. *Engineering Analysis With Boundary Elements*, **2012**, 36, 1536-1545	2.6	15
26	Analytical Solution for Thermoelastic Waves Propagation Analysis in Thick Hollow Cylinder Based on Green–Naghdi Model of Coupled Thermoelasticity. *Journal of Thermal Stresses*, **2012**, 35, 363-376	2.2	34
25	A Unified Formulation for the Analysis of Temperature Field in a Thick Hollow Cylinder Made of Functionally Graded Materials With Various Grading Patterns. *Heat Transfer Engineering*, **2012**, 33, 261-271	1.7	11
24	A glance on the effects of temperature on axisymmetric dynamic behavior of multiwall carbon nanotubes. *Acta Mechanica Sinica/Lixue Xuebao*, **2012**, 28, 720-728	2	5

23	Thermal shock analysis and thermo-elastic stress waves in functionally graded thick hollow cylinders using analytical method. *International Journal of Mechanics and Materials in Design*, **2011**, 7, 167-184	2.5	18
22	Effects of dimensional parameters and various boundary conditions on axisymmetric vibrations of multi-walled carbon nanotubes using a continuum model. *Archive of Applied Mechanics*, **2011**, 81, 1129-1140	2.2	8
21	Two-dimensional dynamic analysis of thermal stresses in a finite-length FG thick hollow cylinder subjected to thermal shock loading using an analytical method. *Acta Mechanica*, **2011**, 220, 299-314	2.1	21
20	Transient analysis of thermo-elastic waves in thick hollow cylinders using a stochastic hybrid numerical method, considering Gaussian mechanical properties. *Applied Mathematical Modelling*, **2011**, 35, 4697-4714	4.5	14
19	Meshless local Petrov□Galerkin method for coupled thermoelasticity analysis of a functionally graded thick hollow cylinder. *Engineering Analysis With Boundary Elements*, **2011**, 35, 827-835	2.6	44
18	Stochastic Assessment of Thermo-Elastic Wave Propagation in Functionally Graded Materials (FGMs) with Gaussian Uncertainty in Constitutive Mechanical Properties. *Journal of Thermal Stresses* , **2011**, 34, 1071-1099	2.2	16
17	Displacement time history analysis and radial wave propagation velocity in pressurized multiwall carbon nanotubes. *Computational Materials Science*, **2010**, 49, 283-292	3.2	14
16	Transient and Dynamic Stress Analysis of Functionally Graded Thick Hollow Cylinder Subjected to Thermal Shock Loading Using an Analytical Method. *Journal of Solid Mechanics and Materials Engineering*, **2010**, 4, 1346-1359		3
15	General analytical solution for elastic radial wave propagation and dynamic analysis of functionally graded thick hollow cylinders subjected to impact loading. *Acta Mechanica*, **2010**, 212, 1-19	2.1	22
14	Stochastic dynamic analysis of a functionally graded thick hollow cylinder with uncertain material properties subjected to shock loading. *Materials & Design*, **2010**, 31, 894-901		22
13	Reliability of stress field in Al□Al2O3 functionally graded thick hollow cylinder subjected to sudden unloading, considering uncertain mechanical properties. *Materials & Design*, **2010**, 31, 3748-3760		14
12	Analytical solution in transient thermo-elasticity of functionally graded thick hollow cylinders (Pseudo-dynamic analysis). *Mathematical Methods in the Applied Sciences*, **2009**, 32, 2019-2034	2.3	26
11	Dynamic analysis of two-dimensional functionally graded thick hollow cylinder with finite length under impact loading. *Acta Mechanica*, **2009**, 208, 163-180	2.1	60
10	Coupled thermoelasticity and second sound in finite length functionally graded thick hollow cylinders (without energy dissipation). *Materials & Design*, **2009**, 30, 2011-2023		62
9	Heat conduction and heat wave propagation in functionally graded thick hollow cylinder base on coupled thermoelasticity without energy dissipation. *Heat and Mass Transfer*, **2008**, 44, 1477-1484	2.2	38
8	Dynamic response and radial wave propagation velocity in thick hollow cylinder made of functionally graded materials. *Engineering Computations*, **2007**, 24, 288-303	1.4	49
7	Transient heat conduction in functionally graded thick hollow cylinders by analytical method. *Heat and Mass Transfer*, **2007**, 43, 669-675	2.2	73
6	Vibration and radial wave propagation velocity in functionally graded thick hollow cylinder. *Composite Structures*, **2006**, 76, 174-181	5.3	94

5	Buckling analysis of multilayer FG-CNT reinforced nanocomposite cylinders assuming CNT waviness, agglomeration, and interphase effects using the CUF-EFG method. *Mechanics of Advanced Materials and Structures*,1-17	1.8	1
4	A deep learning approach based on a data-driven tool for classification and prediction of thermoelastic wave band structures for phononic crystals. *Mechanics of Advanced Materials and Structures*,1-14	1.8	2
3	Intelligent step-length adjustment for adaptive path-following in nonlinear structural mechanics based on group method of data handling neural network. *Mechanics of Advanced Materials and Structures*,1-28	1.8	3
2	Strain gradient and Green Naghdi-based thermoelastic wave propagation with energy dissipation in a Love Bishop nanorod resonator under thermal shock loading. *Waves in Random and Complex Media*,1-24	1.9	3
1	Optimization of vibration band-gap characteristics of a periodic elastic metamaterial plate. *Mechanics of Advanced Materials and Structures*,1-11	1.8	2