# Seyed Mahmoud Hosseini

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 83 papers | 1,573 citations | 361045 20 h-index | 377514 34 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 717 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Vibration and radial wave propagation velocity in functionally graded thick hollow cylinder. Composite Structures, 2006, 76, 174-181. | 3.1 | 102 |
| 2 | Transient heat conduction in functionally graded thick hollow cylinders by analytical method. Heat and Mass Transfer, 2007, 43, 669-675. | 1.2 | 90 |
| 3 | Dynamic analysis of two-dimensional functionally graded thick hollow cylinder with finite length under impact loading. Acta Mechanica, 2009, 208, 163-180. | 1.1 | 69 |
| 4 | Coupled thermoelasticity and second sound in finite length functionally graded thick hollow cylinders (without energy dissipation). Materials & Design, 2009, 30, 2011-2023. | 5.1 | 67 |
| 5 | 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. | 2.2 | 63 |
| 6 | Meshless local Petrovâ€“Galerkin method for coupled thermoelasticity analysis of a functionally graded thick hollow cylinder. Engineering Analysis With Boundary Elements, 2011, 35, 827-835. | 2.0 | 58 |
| 7 | Dynamic response and radial wave propagation velocity in thick hollow cylinder made of functionally graded materials. Engineering Computations, 2007, 24, 288-303. | 0.7 | 50 |
| 8 | Analytical solution for nonlocal coupled thermoelasticity analysis in a heat-affected MEMS/NEMS beam resonator based on Greenâ€“Naghdi theory. Applied Mathematical Modelling, 2018, 57, 21-36. | 2.2 | 46 |
| 9 | Thermoelastic damping in a nonlocal nano-beam resonator as NEMS based on the type III of Greenâ€“Naghdi theory (with energy dissipation). International Journal of Mechanical Sciences, 2015, 92, 304-311. | 3.6 | 40 |
| 10 | 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. | 1.2 | 39 |
| 11 | 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. | 5.1 | 39 |
| 12 | Analytical Solution for Thermoelastic Waves Propagation Analysis in Thick Hollow Cylinder Based on Greenâ€“Naghdi Model of Coupled Thermoelasticity. Journal of Thermal Stresses, 2012, 35, 363-376. | 1.1 | 38 |
| 13 | 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. | 2.0 | 36 |
| 14 | 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. | 5.1 | 30 |
| 15 | Analytical solution in transient thermoâ€elasticity of functionally graded thick hollow cylinders (Pseudoâ€dynamic analysis). Mathematical Methods in the Applied Sciences, 2009, 32, 2019-2034. | 1.2 | 29 |
| 16 | Application of meshless local integral equations to two dimensional analysis of coupled non-Fick diffusionâ€“elasticity. Engineering Analysis With Boundary Elements, 2013, 37, 603-615. | 2.0 | 29 |
| 17 | Two dimensional transient analysis of coupled non-Fick diffusionâ€“thermoelasticity based on Greenâ€“Naghdi theory using the meshless local Petrovâ€“Galerkin (MLPG) method. International Journal of Mechanical Sciences, 2014, 82, 74-80. | 3.6 | 27 |
| 18 | Stochastic dynamic analysis of a functionally graded thick hollow cylinder with uncertain material properties subjected to shock loading. Materials & Design, 2010, 31, 894-901. | 5.1 | 25 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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. | 1.1 | 24 |
| 20 | A meshless local Petrovâ€“Galerkin method for nonlinear dynamic analyses of hyper-elastic FG thick hollow cylinder with Rayleigh damping. Acta Mechanica, 2015, 226, 1497-1513. | 1.1 | 23 |
| 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. | 1.1 | 22 |
| 22 | 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. | 2.0 | 22 |
| 23 | Shock-induced two dimensional coupled non-Fickian diffusionâ€“elasticity analysis using meshless generalized finite difference (GFD) method. Engineering Analysis With Boundary Elements, 2015, 61, 232-240. | 2.0 | 22 |
| 24 | Shock-induced nonlocal coupled thermoelasticity analysis (with energy dissipation) in a MEMS/NEMS beam resonator based on Greenâ€“Naghdi theory: A meshless implementation considering small-scale effects. Journal of Thermal Stresses, 2017, 40, 1134-1151. | 1.1 | 20 |
| 25 | 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. | 1.3 | 20 |
| 26 | 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. | 1.1 | 20 |
| 27 | 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. | 1.7 | 19 |
| 28 | 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. | 1.1 | 19 |
| 29 | 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. | 2.2 | 19 |
| 30 | 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. | 2.0 | 18 |
| 31 | Application of hetero junction CNTs as mass nanosensor using nonlocal strain gradient theory: An analytical solution. Applied Mathematical Modelling, 2019, 76, 26-49. | 2.2 | 18 |
| 32 | Reliability of stress field in Alâ€“Al2O3 functionally graded thick hollow cylinder subjected to sudden unloading, considering uncertain mechanical properties. Materials & Design, 2010, 31, 3748-3760. | 5.1 | 17 |
| 33 | 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. | 1.1 | 17 |
| 34 | Anisotropic transient thermoelasticity analysis in a two-dimensional decagonal quasicrystal using meshless local Petrovâ€“Galerkin (MLPG) method. Applied Mathematical Modelling, 2019, 66, 275-295. | 2.2 | 17 |
| 35 | 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. | 1.0 | 17 |
| 36 | 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. | 2.0 | 16 |

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|---|---|---|---|
| 37 | Displacement time history analysis and radial wave propagation velocity in pressurized multiwall carbon nanotubes. Computational Materials Science, 2010, 49, 283-292. | 1.4 | 15 |
| 38 | 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. | 2.2 | 15 |
| 39 | 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. | 1.2 | 15 |
| 40 | 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. | 2.0 | 15 |
| 41 | Path following techniques for geometrically nonlinear structures based on Multi-point methods. Computers and Structures, 2018, 208, 130-142. | 2.4 | 15 |
| 42 | 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. | 2.7 | 15 |
| 43 | Analysis of a curved Timoshenko nano-beam with flexoelectricity. Acta Mechanica, 2021, 232, 1563-1581. | 1.1 | 14 |
| 44 | 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. | 3.6 | 14 |
| 45 | Shock-induced molar concentration wave propagation and coupled non-Fick diffusionâ€“elasticity analysis using an analytical method. Acta Mechanica, 2014, 225, 3591-3599. | 1.1 | 12 |
| 46 | 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. | 2.0 | 12 |
| 47 | A deep learning approach based on a data-driven tool for classification and prediction of thermoelastic waveâ€™s band structures for phononic crystals. Mechanics of Advanced Materials and Structures, 2022, 29, 6612-6625. | 1.5 | 12 |
| 48 | Automated design of phononic crystals under thermoelastic wave propagation through deep reinforcement learning. Engineering Structures, 2022, 263, 114385. | 2.6 | 12 |
| 49 | An analytical solution for thermal shock analysis of multiwall carbon nanotubes. Computational Materials Science, 2012, 61, 291-297. | 1.4 | 11 |
| 50 | 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. | 1.2 | 10 |
| 51 | Free vibration analysis of dissimilar connected CNTs with atomic imperfections and different locations of connecting region. Physica B: Condensed Matter, 2017, 524, 34-46. | 1.3 | 9 |
| 52 | 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. | 1.3 | 9 |
| 53 | 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. | 2.0 | 9 |
| 54 | 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. | 1.1 | 8 |

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|---|---|---|---|
| 55 | 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. | 1.6 | 8 |
| 56 | Two dimensional analysis of coupled non-Fick diffusion-elastodynamics problems in functionally graded materials using meshless local Petrovâ€“Galerkin (MLPG) method. Applied Mathematics and Computation, 2015, 268, 937-946. | 1.4 | 8 |
| 57 | 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. | 1.4 | 8 |
| 58 | 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, 2022, 29, 2895-2912. | 1.5 | 8 |
| 59 | Plasma-affected photo-thermoelastic wave propagation in a semiconductor Loveâ€“Bishop nanorod using strain-gradient Mooreâ€“Gibsonâ€“Thompson theories. Thin-Walled Structures, 2022, 179, 109480. | 2.7 | 8 |
| 60 | Response of multiwall carbon nanotubes to impact loading. Applied Mathematical Modelling, 2013, 37, 5359-5370. | 2.2 | 7 |
| 61 | Active tuning and maximization of natural frequency in three-dimensional functionally graded shape memory alloy composite structures using meshless local Petrovâ€“Galerkin method. JVC/Journal of Vibration and Control, 2019, 25, 2093-2107. | 1.5 | 7 |
| 62 | Optimization of vibration band-gap characteristics of a periodic elastic metamaterial plate. Mechanics of Advanced Materials and Structures, 2023, 30, 3204-3214. | 1.5 | 7 |
| 63 | 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. | 2.2 | 6 |
| 64 | Geometrically nonlinear dynamic analysis of functionally graded thick hollow cylinders using total Lagrangian MLPG method. Meccanica, 2016, 51, 655-672. | 1.2 | 6 |
| 65 | Solution of minimum spanning forest problems with reliability constraints. Computers and Industrial Engineering, 2020, 142, 106365. | 3.4 | 6 |
| 66 | Strain gradient and Greenâ€“Naghdi-based thermoelastic wave propagation with energy dissipation in a Loveâ€“Bishop nanorod resonator under thermal shock loading. Waves in Random and Complex Media, 0, , 1-24. | 1.6 | 6 |
| 67 | A glance on the effects of temperature on axisymmetric dynamic behavior of multiwall carbon nanotubes. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 720-728. | 1.5 | 5 |
| 68 | Elastodynamic Analysis of a Hollow Cylinder with Decagonal Quasicrystal Properties: Meshless Implementation of Local Integral Equations. Crystals, 2016, 6, 94. | 1.0 | 5 |
| 69 | Generalized coupled non-Fickian/non-Fourierian diffusion-thermoelasticity analysis subjected to shock loading using analytical method. Structural Engineering and Mechanics, 2016, 60, 529-545. | 1.0 | 5 |
| 70 | 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. | 1.0 | 4 |
| 71 | 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. | 0.8 | 4 |
| 72 | 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. | 0.5 | 3 |

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|---|---|---|---|
| 73 | 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. | 1.1 | 3 |
| 74 | 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, 2023, 30, 1309-1325. | 1.5 | 3 |
| 75 | 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. | 0.7 | 2 |
| 76 | 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. | 0.7 | 2 |
| 77 | 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. | 1.2 | 1 |
| 78 | A deep learning approach based on the physics-informed neural networks for Gaussian thermal shock-induced thermoelastic wave propagation analysis in a thick hollow cylinder with energy dissipation. Waves in Random and Complex Media, 0, , 1-40. | 1.6 | 1 |
| 79 | Geometrically Non-Linear Vibration and Coupled Thermo-Elasticity Analysis with Energy Dissipation in FG Multilayer Cylinder Reinforced by Graphene Platelets Using MLPG Method. Journal of Vibration Engineering and Technologies, 0, , . | 1.3 | 1 |
| 80 | Dynamic Stochastic Analysis of Radial Displacement in Functionally Graded Thick Hollow Cylinder Using Hybrid Numerical Method and Monte Carlo Simulation. , 2009, , . | | 0 |
| 81 | Time history analysis of displacement and stress fields in thick hollow cylinders subjected to impact loading using analytical method. Proceedings of Meetings on Acoustics, 2009, , . | 0.3 | 0 |
| 82 | Thermoelastic Wave Propagation Analysis in Thick Hollow Cylinder Based on Green-Naghdi Theory of Coupled Thermoelasticity Using Analytical Method. , 2014, , 5780-5785. | | 0 |
| 83 | Analytical solution for coupled non-Fickian diffusion-thermoelasticity and thermoelastic wave propagation analysis. Scientia Iranica, 2017, . | 0.3 | 0 |