

# Ali Farajpour

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7714601/publications.pdf>

Version: 2024-02-01

59  
papers

2,735  
citations

136885

32  
h-index

189801

50  
g-index

59  
all docs

59  
docs citations

59  
times ranked

962  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Special issue of Engineering Analysis with Boundary Elements: Computational approaches to mechanical response analysis of structures at diverse scales. Engineering Analysis With Boundary Elements, 2022, 136, 1-2. | 2.0 | 0         |
| 2  | Special Issue of Nanomaterials: Mechanics of Nanostructures and Nanomaterials. Nanomaterials, 2022, 12, 476.   | 1.9 | 2         |
| 3  | Analytical and meshless DQM approaches to free vibration analysis of symmetric FGM porous nanobeams with piezoelectric effect. Engineering Analysis With Boundary Elements, 2022, 136, 266-289.                      | 2.0 | 44        |
| 4  | Nonlinear frequency behaviour of magneto-electromechanical mass nanosensors using vibrating MEE nanoplates with multiple nanoparticles. Composite Structures, 2021, 260, 113458.                                     | 3.1 | 28        |
| 5  | Nonlinear coupled mechanics of nanotubes incorporating both nonlocal and strain gradient effects. Mechanics of Advanced Materials and Structures, 2020, 27, 373-382.   | 1.5 | 29        |
| 6  | Viscoelastically coupled in-plane and transverse dynamics of imperfect microplates. Thin-Walled Structures, 2020, 150, 106117.   | 2.7 | 28        |
| 7  | Large-amplitude parametric response of fluid-conveying nanotubes due to flow pulsations. Microsystem Technologies, 2020, 26, 707-720.  | 1.2 | 5         |
| 8  | Effect of flow pulsations on chaos in nanotubes using nonlocal strain gradient theory. Communications in Nonlinear Science and Numerical Simulation, 2020, 83, 105090.   | 1.7 | 24        |
| 9  | Local dynamic analysis of imperfect fluid-conveying nanotubes with large deformations incorporating nonlinear damping. JVC/Journal of Vibration and Control, 2020, 26, 413-429.                                      | 1.5 | 6         |
| 10 | Wave Dispersion in Multilayered Reinforced Nonlocal Plates under Nonlinearly Varying Initial Stress. Eng, 2020, 1, 31-47.  | 1.2 | 0         |
| 11 | On size-dependent mechanics of nanoplates. International Journal of Engineering Science, 2020, 156, 103368.  | 2.7 | 40        |
| 12 | Asymmetric Oscillations of AFG Microscale Nonuniform Deformable Timoshenko Beams. Vibration, 2019, 2, 201-221.   | 0.9 | 1         |
| 13 | Viscoelastically coupled mechanics of fluid-conveying microtubes. International Journal of Engineering Science, 2019, 145, 103139.   | 2.7 | 36        |
| 14 | Global nonlocal viscoelastic dynamics of pulsatile fluid-conveying imperfect nanotubes. European Physical Journal Plus, 2019, 134, 1.  | 1.2 | 7         |
| 15 | Nonlocal nonlinear mechanics of imperfect carbon nanotubes. International Journal of Engineering Science, 2019, 142, 201-215.  | 2.7 | 25        |
| 16 | Chaos in fluid-conveying NSGT nanotubes with geometric imperfections. Applied Mathematical Modelling, 2019, 74, 708-730.   | 2.2 | 32        |
| 17 | Pulsatile vibrations of viscoelastic microtubes conveying fluid. Microsystem Technologies, 2019, 25, 3609-3623.  | 1.2 | 7         |
| 18 | Super and subcritical nonlinear nonlocal analysis of NSGT nanotubes conveying nanofluid. Microsystem Technologies, 2019, 25, 4693-4707.  | 1.2 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A coupled longitudinal-transverse nonlinear NSGT model for CNTs incorporating internal energy loss. <i>European Physical Journal Plus</i> , 2019, 134, 1.   | 1.2 | 12        |
| 20 | A nonlinear viscoelastic model for NSGT nanotubes conveying fluid incorporating slip boundary conditions. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 1883-1894.                            | 1.5 | 7         |
| 21 | Mechanics of Fluid-Conveying Microtubes: Coupled Buckling and Post-Buckling. <i>Vibration</i> , 2019, 2, 102-115.   | 0.9 | 6         |
| 22 | A coupled nonlinear continuum model for bifurcation behaviour of fluid-conveying nanotubes incorporating internal energy loss. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.                     | 1.0 | 15        |
| 23 | Application of nanotubes in conveying nanofluid: a bifurcation analysis with consideration of internal energy loss and geometrical imperfection. <i>Microsystem Technologies</i> , 2019, 25, 4357-4371. | 1.2 | 8         |
| 24 | Vibrations of shear deformable FG viscoelastic microbeams. <i>Microsystem Technologies</i> , 2019, 25, 1387-1400.   | 1.2 | 16        |
| 25 | Global dynamics of fluid conveying nanotubes. <i>International Journal of Engineering Science</i> , 2019, 135, 37-57.   | 2.7 | 64        |
| 26 | Chaotic motion analysis of fluid-conveying viscoelastic nanotubes. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 281-296.  | 2.1 | 54        |
| 27 | A review on the mechanics of functionally graded nanoscale and microscale structures. <i>International Journal of Engineering Science</i> , 2019, 137, 8-36.  | 2.7 | 210       |
| 28 | Large-amplitude coupled scale-dependent behaviour of geometrically imperfect NSGT nanotubes. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 510-525.                                  | 3.6 | 43        |
| 29 | A nonlocal continuum model for the biaxial buckling analysis of composite nanoplates with shape memory alloy nanowires. <i>Materials Research Express</i> , 2018, 5, 035026.                            | 0.8 | 33        |
| 30 | Nonlinear mechanics of nanoscale tubes via nonlocal strain gradient theory. <i>International Journal of Engineering Science</i> , 2018, 129, 84-95.   | 2.7 | 101       |
| 31 | Nonlinear mechanics of nanotubes conveying fluid. <i>International Journal of Engineering Science</i> , 2018, 133, 132-143.   | 2.7 | 77        |
| 32 | A review on the mechanics of nanostructures. <i>International Journal of Engineering Science</i> , 2018, 133, 231-263.  | 2.7 | 179       |
| 33 | Resonant frequency tuning of nanobeams by piezoelectric nanowires under thermo-electro-magnetic field: a theoretical study. <i>Micro and Nano Letters</i> , 2018, 13, 1627-1632.                        | 0.6 | 17        |
| 34 | Chaotic oscillations of viscoelastic microtubes conveying pulsatile fluid. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.   | 1.0 | 27        |
| 35 | Vibration, buckling and smart control of microtubules using piezoelectric nanoshells under electric voltage in thermal environment. <i>Physica B: Condensed Matter</i> , 2017, 509, 100-114.            | 1.3 | 53        |
| 36 | Size-dependent static stability of magneto-electro-elastic CNT/MT-based composite nanoshells under external electric and magnetic fields. <i>Microsystem Technologies</i> , 2017, 23, 5815-5832.        | 1.2 | 17        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Nonlinear buckling analysis of magneto-electro-elastic CNT-MT hybrid nanoshells based on the nonlocal continuum mechanics. <i>Composite Structures</i> , 2017, 180, 179-191.   | 3.1 | 65        |
| 38 | Vibration of piezoelectric nanofilm-based electromechanical sensors via higher-order nonlocal strain gradient theory. <i>Micro and Nano Letters</i> , 2016, 11, 302-307.   | 0.6 | 47        |
| 39 | Hygro-mechanical vibration analysis of a rotating viscoelastic nanobeam embedded in a visco-Pasternak elastic medium and in a nonlinear thermal environment. <i>Acta Mechanica</i> , 2016, 227, 2207-2232.           | 1.1 | 68        |
| 40 | A higher-order nonlocal strain gradient plate model for buckling of orthotropic nanoplates in thermal environment. <i>Acta Mechanica</i> , 2016, 227, 1849-1867.   | 1.1 | 145       |
| 41 | Nonlocal nonlinear plate model for large amplitude vibration of magneto-electro-elastic nanoplates. <i>Composite Structures</i> , 2016, 140, 323-336.  | 3.1 | 144       |
| 42 | Numerical study of twin groove journal bearings performance under steady-state condition. <i>Lubrication Science</i> , 2015, 27, 83-102.   | 0.9 | 9         |
| 43 | Nanoscale mass detection based on vibrating piezoelectric ultrathin films under thermo-electro-mechanical loads. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 68, 112-122.                   | 1.3 | 49        |
| 44 | Thermal effects on the stability of circular graphene sheets via nonlocal continuum mechanics. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 704-724.   | 0.6 | 37        |
| 45 | Decoupling the nonlocal elasticity equations for thermo-mechanical vibration of circular graphene sheets including surface effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 60, 80-90.  | 1.3 | 41        |
| 46 | Thermo-electro-mechanical vibration of coupled piezoelectric-nanoplate systems under non-uniform voltage distribution embedded in Pasternak elastic medium. <i>Current Applied Physics</i> , 2014, 14, 814-832.      | 1.1 | 47        |
| 47 | Surface effects on the mechanical characteristics of microtubule networks in living cells. <i>Mechanics Research Communications</i> , 2014, 57, 18-26.   | 1.0 | 43        |
| 48 | Vibration characteristics of double-piezoelectric-nanoplate systems. <i>Micro and Nano Letters</i> , 2014, 9, 280-285.   | 0.6 | 37        |
| 49 | Influence of initial stress on the vibration of double-piezoelectric-nanoplate systems with various boundary conditions using DQM. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 63, 169-179. | 1.3 | 49        |
| 50 | Numerical study of the effect of shear in-plane load on the vibration analysis of graphene sheet embedded in an elastic medium. <i>Computational Materials Science</i> , 2014, 82, 510-520.                          | 1.4 | 24        |
| 51 | Nonlinear vibration analysis of piezoelectric nanoelectromechanical resonators based on nonlocal elasticity theory. <i>Composite Structures</i> , 2014, 116, 703-712.  | 3.1 | 72        |
| 52 | Exact solution for thermo-mechanical vibration of orthotropic mono-layer graphene sheet embedded in an elastic medium. <i>Latin American Journal of Solids and Structures</i> , 2014, 11, 437-458.                   | 0.6 | 33        |
| 53 | Postbuckling analysis of multi-layered graphene sheets under non-uniform biaxial compression. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 47, 197-206.                                      | 1.3 | 59        |
| 54 | Axisymmetric free and forced vibrations of initially stressed circular nanoplates embedded in an elastic medium. <i>Acta Mechanica</i> , 2012, 223, 2311-2330.   | 1.1 | 41        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Buckling of orthotropic micro/nanoscale plates under linearly varying in-plane load via nonlocal continuum mechanics. <i>Composite Structures</i> , 2012, 94, 1605-1615.               | 3.1 | 122       |
| 56 | Axial vibration analysis of a tapered nanorod based on nonlocal elasticity theory and differential quadrature method. <i>Mechanics Research Communications</i> , 2012, 39, 23-27.      | 1.0 | 145       |
| 57 | Buckling analysis of variable thickness nanoplates using nonlocal continuum mechanics. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 719-727.               | 1.3 | 77        |
| 58 | Vibration analysis of nanorings using nonlocal continuum mechanics and shear deformable ring theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 44, 135-140. | 1.3 | 33        |
| 59 | Axisymmetric buckling of the circular graphene sheets with the nonlocal continuum plate model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011, 43, 1820-1825.     | 1.3 | 90        |