

Ali Farajpour

List of Publications by Year in descending order

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59
papers

2,735
citations

136950
32
h-index

189892
50
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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.	3.7	0
2	Special Issue of Nanomaterials: Mechanics of Nanostructures and Nanomaterials. Nanomaterials, 2022, 12, 476.	4.1	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.	3.7	44
4	Nonlinear frequency behaviour of magneto-electromechanical mass nanosensors using vibrating MEE nanoplates with multiple nanoparticles. Composite Structures, 2021, 260, 113458.	5.8	28
5	Nonlinear coupled mechanics of nanotubes incorporating both nonlocal and strain gradient effects. Mechanics of Advanced Materials and Structures, 2020, 27, 373-382.	2.6	29
6	Viscoelastically coupled in-plane and transverse dynamics of imperfect microplates. Thin-Walled Structures, 2020, 150, 106117.	5.3	28
7	Large-amplitude parametric response of fluid-conveying nanotubes due to flow pulsations. Microsystem Technologies, 2020, 26, 707-720.	2.0	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.	3.3	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.	2.6	6
10	Wave Dispersion in Multilayered Reinforced Nonlocal Plates under Nonlinearly Varying Initial Stress. Eng, 2020, 1, 31-47.	2.4	0
11	On size-dependent mechanics of nanoplates. International Journal of Engineering Science, 2020, 156, 103368.	5.0	40
12	Asymmetric Oscillations of AFG Microscale Nonuniform Deformable Timoshenko Beams. Vibration, 2019, 2, 201-221.	1.9	1
13	Viscoelastically coupled mechanics of fluid-conveying microtubes. International Journal of Engineering Science, 2019, 145, 103139.	5.0	36
14	Global nonlocal viscoelastic dynamics of pulsatile fluid-conveying imperfect nanotubes. European Physical Journal Plus, 2019, 134, 1.	2.6	7
15	Nonlocal nonlinear mechanics of imperfect carbon nanotubes. International Journal of Engineering Science, 2019, 142, 201-215.	5.0	25
16	Chaos in fluid-conveying NSGT nanotubes with geometric imperfections. Applied Mathematical Modelling, 2019, 74, 708-730.	4.2	32
17	Pulsatile vibrations of viscoelastic microtubes conveying fluid. Microsystem Technologies, 2019, 25, 3609-3623.	2.0	7
18	Super and subcritical nonlinear nonlocal analysis of NSGT nanotubes conveying nanofluid. Microsystem Technologies, 2019, 25, 4693-4707.	2.0	5

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19	A coupled longitudinal-transverse nonlinear NSGT model for CNTs incorporating internal energy loss. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	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.	2.6	7
21	Mechanics of Fluid-Conveying Microtubes: Coupled Buckling and Post-Buckling. <i>Vibration</i> , 2019, 2, 102-115.	1.9	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.	2.2	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.	2.0	8
24	Vibrations of shear deformable FG viscoelastic microbeams. <i>Microsystem Technologies</i> , 2019, 25, 1387-1400.	2.0	16
25	Global dynamics of fluid conveying nanotubes. <i>International Journal of Engineering Science</i> , 2019, 135, 37-57.	5.0	64
26	Chaotic motion analysis of fluid-conveying viscoelastic nanotubes. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 281-296.	3.7	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.	5.0	210
28	Large-amplitude coupled scale-dependent behaviour of geometrically imperfect NSGT nanotubes. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 510-525.	6.7	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.	1.6	33
30	Nonlinear mechanics of nanoscale tubes via nonlocal strain gradient theory. <i>International Journal of Engineering Science</i> , 2018, 129, 84-95.	5.0	101
31	Nonlinear mechanics of nanotubes conveying fluid. <i>International Journal of Engineering Science</i> , 2018, 133, 132-143.	5.0	77
32	A review on the mechanics of nanostructures. <i>International Journal of Engineering Science</i> , 2018, 133, 231-263.	5.0	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.	1.3	17
34	Chaotic oscillations of viscoelastic microtubes conveying pulsatile fluid. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	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.	2.7	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.	2.0	17

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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.	5.8	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.	1.3	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.	2.1	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.	2.1	145
41	Nonlocal nonlinear plate model for large amplitude vibration of magneto-electro-elastic nanoplates. <i>Composite Structures</i> , 2016, 140, 323-336.	5.8	144
42	Numerical study of twin groove journal bearings performance under steady-state condition. <i>Lubrication Science</i> , 2015, 27, 83-102.	2.1	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.	2.7	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.	1.0	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.	2.7	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.	2.4	47
47	Surface effects on the mechanical characteristics of microtubule networks in living cells. <i>Mechanics Research Communications</i> , 2014, 57, 18-26.	1.8	43
48	Vibration characteristics of double-piezoelectric-nanoplate systems. <i>Micro and Nano Letters</i> , 2014, 9, 280-285.	1.3	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.	2.7	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.	3.0	24
51	Nonlinear vibration analysis of piezoelectric nanoelectromechanical resonators based on nonlocal elasticity theory. <i>Composite Structures</i> , 2014, 116, 703-712.	5.8	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.	1.0	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.	2.7	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.	2.1	41

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55	Buckling of orthotropic micro/nanoscale plates under linearly varying in-plane load via nonlocal continuum mechanics. Composite Structures, 2012, 94, 1605-1615.	5.8	122
56	Axial vibration analysis of a tapered nanorod based on nonlocal elasticity theory and differential quadrature method. Mechanics Research Communications, 2012, 39, 23-27.	1.8	145
57	Buckling analysis of variable thickness nanoplates using nonlocal continuum mechanics. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 719-727.	2.7	77
58	Vibration analysis of nanorings using nonlocal continuum mechanics and shear deformable ring theory. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 135-140.	2.7	33
59	Axisymmetric buckling of the circular graphene sheets with the nonlocal continuum plate model. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 1820-1825.	2.7	90