

Keivan Kiani

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107
papers

2,343
citations

30
h-index

43
g-index

110
ext. papers

2,495
ext. citations

3.4
avg, IF

6.6
L-index

#	Paper	IF	Citations
107	A meshless approach for free transverse vibration of embedded single-walled nanotubes with arbitrary boundary conditions accounting for nonlocal effect. <i>International Journal of Mechanical Sciences</i> , 2010 , 52, 1343-1356	5.5	91
106	Assessment of nanotube structures under a moving nanoparticle using nonlocal beam theories. <i>Journal of Sound and Vibration</i> , 2010 , 329, 2241-2264	3.9	86
105	Vibration analysis of elastically restrained double-walled carbon nanotubes on elastic foundation subjected to axial load using nonlocal shear deformable beam theories. <i>International Journal of Mechanical Sciences</i> , 2013 , 68, 16-34	5.5	72
104	Longitudinal and transverse vibration of a single-walled carbon nanotube subjected to a moving nanoparticle accounting for both nonlocal and inertial effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2391-2401	3	71
103	Vibration behavior of simply supported inclined single-walled carbon nanotubes conveying viscous fluids flow using nonlocal Rayleigh beam model. <i>Applied Mathematical Modelling</i> , 2013 , 37, 1836-1850	4.5	69
102	On the interaction of a single-walled carbon nanotube with a moving nanoparticle using nonlocal Rayleigh, Timoshenko, and higher-order beam theories. <i>European Journal of Mechanics, A/Solids</i> , 2012 , 31, 179-202	3.7	63
101	Vibration and instability of a single-walled carbon nanotube in a three-dimensional magnetic field. <i>Journal of Physics and Chemistry of Solids</i> , 2014 , 75, 15-22	3.9	63
100	Free longitudinal vibration of tapered nanowires in the context of nonlocal continuum theory via a perturbation technique. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 43, 387-397	3	60
99	Free vibration of conducting nanoplates exposed to unidirectional in-plane magnetic fields using nonlocal shear deformable plate theories. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 57, 179-192	3	59
98	Transverse wave propagation in elastically confined single-walled carbon nanotubes subjected to longitudinal magnetic fields using nonlocal elasticity models. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 45, 86-96	3	55
97	Application of nonlocal beam models to double-walled carbon nanotubes under a moving nanoparticle. Part I: theoretical formulations. <i>Acta Mechanica</i> , 2011 , 216, 165-195	2.1	55
96	Longitudinal, transverse, and torsional vibrations and stabilities of axially moving single-walled carbon nanotubes. <i>Current Applied Physics</i> , 2013 , 13, 1651-1660	2.6	54
95	Prediction capabilities of classical and shear deformable beam models excited by a moving mass. <i>Journal of Sound and Vibration</i> , 2009 , 320, 632-648	3.9	52
94	Nonlinear vibrations of a single-walled carbon nanotube for delivering of nanoparticles. <i>Nonlinear Dynamics</i> , 2014 , 76, 1885-1903	5	50
93	Longitudinal and transverse instabilities of moving nanoscale beam-like structures made of functionally graded materials. <i>Composite Structures</i> , 2014 , 107, 610-619	5.3	49
92	Forced vibrations of a current-carrying nanowire in a longitudinal magnetic field accounting for both surface energy and size effects. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 63, 27-35	3	45
91	Thermo-elasto-dynamic analysis of axially functionally graded non-uniform nanobeams with surface energy. <i>International Journal of Engineering Science</i> , 2016 , 106, 57-76	5.7	42

90	Application of nonlocal beam models to double-walled carbon nanotubes under a moving nanoparticle. Part II: parametric study. <i>Acta Mechanica</i> , 2011 , 216, 197-206	2.1	42
89	Small-scale effect on the vibration of thin nanoplates subjected to a moving nanoparticle via nonlocal continuum theory. <i>Journal of Sound and Vibration</i> , 2011 , 330, 4896-4914	3.9	42
88	Application of elastically supported single-walled carbon nanotubes for sensing arbitrarily attached nano-objects. <i>Current Applied Physics</i> , 2013 , 13, 107-120	2.6	41
87	Surface effect on free transverse vibrations and dynamic instability of current-carrying nanowires in the presence of a longitudinal magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 1834-1840	2.3	40
86	Characterization of free vibration of elastically supported double-walled carbon nanotubes subjected to a longitudinally varying magnetic field. <i>Acta Mechanica</i> , 2013 , 224, 3139-3151	2.1	40
85	Free dynamic analysis of functionally graded tapered nanorods via a newly developed nonlocal surface energy-based integro-differential model. <i>Composite Structures</i> , 2016 , 139, 151-166	5.3	39
84	Nanoparticle delivery via stocky single-walled carbon nanotubes: A nonlinear-nonlocal continuum-based scrutiny. <i>Composite Structures</i> , 2014 , 116, 254-272	5.3	35
83	Magneto-elasto-dynamic analysis of an elastically confined conducting nanowire due to an axial magnetic shock. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 1679-1685	2.3	35
82	Nonlocal discrete and continuous modeling of free vibration of stocky ensembles of vertically aligned single-walled carbon nanotubes. <i>Current Applied Physics</i> , 2014 , 14, 1116-1139	2.6	34
81	Longitudinally varying magnetic field influenced transverse vibration of embedded double-walled carbon nanotubes. <i>International Journal of Mechanical Sciences</i> , 2014 , 87, 179-199	5.5	34
80	In- and out-of-plane dynamic flexural behaviors of two-dimensional ensembles of vertically aligned single-walled carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2014 , 449, 164-180	2.8	33
79	Nonlocal continuum-based modeling of a nanoplate subjected to a moving nanoparticle. Part I: Theoretical formulations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 44, 229-248	3	33
78	Nonlocal continuous models for forced vibration analysis of two- and three-dimensional ensembles of single-walled carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 60, 229-245	3	32
77	Stability and vibrations of doubly parallel current-carrying nanowires immersed in a longitudinal magnetic field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 348-360	2.3	30
76	Magnetically affected single-walled carbon nanotubes as nanosensors. <i>Mechanics Research Communications</i> , 2014 , 60, 33-39	2.2	29
75	A model for the evolution of concrete deterioration due to reinforcement corrosion. <i>Mathematical and Computer Modelling</i> , 2010 , 52, 1403-1422		28
74	Axial buckling analysis of vertically aligned ensembles of single-walled carbon nanotubes using nonlocal discrete and continuous models. <i>Acta Mechanica</i> , 2014 , 225, 3569-3589	2.1	27
73	Magneto-thermo-elastic fields caused by an unsteady longitudinal magnetic field in a conducting nanowire accounting for eddy-current loss. <i>Materials Chemistry and Physics</i> , 2012 , 136, 589-598	4.4	27

72	Nonlocal-integro-differential modeling of vibration of elastically supported nanorods. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 83, 151-163	3	25
71	Nonlocal and shear effects on column buckling of single-layered membranes from stocky single-walled carbon nanotubes. <i>Composites Part B: Engineering</i> , 2015 , 79, 535-552	10	23
70	Column buckling of magnetically affected stocky nanowires carrying electric current. <i>Journal of Physics and Chemistry of Solids</i> , 2015 , 83, 140-151	3.9	23
69	Axial buckling analysis of a slender current-carrying nanowire acted upon by a magnetic field using the surface energy approach. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 245302	3	22
68	Nonlocal continuum-based modeling of a nanoplate subjected to a moving nanoparticle. Part II: Parametric studies. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2011 , 44, 249-269	3	22
67	Vibrations and instability of pretensioned current-carrying nanowires acted upon by a suddenly applied three-dimensional magnetic field. <i>Materials Chemistry and Physics</i> , 2015 , 162, 531-541	4.4	21
66	Vibration of double-walled carbon nanotubes coupled by temperature-dependent medium under a moving nanoparticle with multi physical fields. <i>Mechanics of Advanced Materials and Structures</i> , 2016 , 23, 281-291	1.8	21
65	Nanofluidic flow-induced longitudinal and transverse vibrations of inclined stocky single-walled carbon nanotubes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2014 , 276, 691-723	5.7	20
64	Assessing dynamic response of multispan viscoelastic thin beams under a moving mass via generalized moving least square method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010 , 26, 721-733	2	20
63	Elastic wave propagation in magnetically affected double-walled carbon nanotubes. <i>Meccanica</i> , 2015 , 50, 1003-1026	2.1	19
62	Free vibration of in-plane-aligned membranes of single-walled carbon nanotubes in the presence of in-plane-unidirectional magnetic fields. <i>JVC/Journal of Vibration and Control</i> , 2016 , 22, 3736-3766	2	19
61	Prediction of the penetrated rust into the microcracks of concrete caused by reinforcement corrosion. <i>Applied Mathematical Modelling</i> , 2011 , 35, 2529-2543	4.5	19
60	Column buckling of doubly parallel slender nanowires carrying electric current acted upon by a magnetic field. <i>Journal of Physics and Chemistry of Solids</i> , 2016 , 95, 89-97	3.9	18
59	Application of nonlocal higher-order beam theory to transverse wave analysis of magnetically affected forests of single-walled carbon nanotubes. <i>International Journal of Mechanical Sciences</i> , 2018 , 138-139, 1-16	5.5	16
58	Large deformation of uniaxially loaded slender microbeams on the basis of modified couple stress theory: Analytical solution and Galerkin-based method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 93, 301-312	3	16
57	Wave characteristics in aligned forests of single-walled carbon nanotubes using nonlocal discrete and continuous theories. <i>International Journal of Mechanical Sciences</i> , 2015 , 90, 278-309	5.5	16
56	Thermo-mechanical analysis of functionally graded plate-like nanorotors: A surface elasticity model. <i>International Journal of Mechanical Sciences</i> , 2016 , 106, 39-49	5.5	15
55	On the limitations of linear beams for the problems of moving mass-beam interaction using a meshfree method. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012 , 28, 164-179	2	15

54	Parametric Analyses of Multispan Viscoelastic Shear Deformable Beams Under Excitation of a Moving Mass. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2009 , 131,	1.6	15
53	Vibrations of double-nanorod-systems with defects using nonlocal-integral-surface energy-based formulations. <i>Composite Structures</i> , 2021 , 256, 113028	5.3	15
52	Nonlocal vibrations and potential instability of monolayers from double-walled carbon nanotubes subjected to temperature gradients. <i>International Journal of Mechanical Sciences</i> , 2018 , 144, 576-599	5.5	14
51	A nonlocal meshless solution for flexural vibrations of double-walled carbon nanotubes. <i>Applied Mathematics and Computation</i> , 2014 , 234, 557-578	2.7	14
50	Elastic buckling of current-carrying double-nanowire systems immersed in a magnetic field. <i>Acta Mechanica</i> , 2016 , 227, 3549-3570	2.1	14
49	Revisiting the free transverse vibration of embedded single-layer graphene sheets acted upon by an in-plane magnetic field. <i>Journal of Mechanical Science and Technology</i> , 2014 , 28, 3511-3516	1.6	13
48	Vibration analysis of two orthogonal slender single-walled carbon nanotubes with a new insight into continuum-based modeling of van der Waals forces. <i>Composites Part B: Engineering</i> , 2015 , 73, 72-81	10	12
47	Nonlocal free dynamic analysis of periodic arrays of single-walled carbon nanotubes in the presence of longitudinal thermal and magnetic fields. <i>Computers and Mathematics With Applications</i> , 2018 , 75, 3849-3872	2.7	11
46	Divergence and flutter instabilities of nanobeams in moving state accounting for surface and shear effects. <i>Computers and Mathematics With Applications</i> , 2019 , 77, 2764-2785	2.7	10
45	On the role of shear deformation in dynamic behavior of a fully saturated poroelastic beam traversed by a moving load. <i>International Journal of Mechanical Sciences</i> , 2015 , 94-95, 84-95	5.5	10
44	Exact postbuckling analysis of highly stretchable-surface energetic-elastic nanowires with various end-conditions. <i>International Journal of Mechanical Sciences</i> , 2017 , 124-125, 242-252	5.5	9
43	Nanomechanical sensors based on elastically supported double-walled carbon nanotubes. <i>Applied Mathematics and Computation</i> , 2015 , 270, 216-241	2.7	9
42	A simplified-nonlocal model for transverse vibration of nanotubes acted upon by a moving nanoparticle. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017 , 39, 4929-4941	2	9
41	Postbuckling scrutiny of highly deformable nanobeams: A novel exact nonlocal-surface energy-based model. <i>Journal of Physics and Chemistry of Solids</i> , 2017 , 110, 327-343	3.9	9
40	Nonlocal longitudinal, flapwise, and chordwise vibrations of rotary doubly coaxial/non-coaxial nanobeams as nanomotors. <i>International Journal of Mechanical Sciences</i> , 2020 , 168, 105291	5.5	9
39	In-plane vibration and instability of nanorotors made from functionally graded materials accounting for surface energy effect. <i>Microsystem Technologies</i> , 2017 , 23, 4853-4869	1.7	8
38	Dynamic interactions of doubly orthogonal stocky single-walled carbon nanotubes. <i>Composite Structures</i> , 2015 , 125, 144-158	5.3	8
37	Vibrations and instability of double-nanowire-systems as electric current carriers. <i>Modern Physics Letters B</i> , 2015 , 29, 1550144	1.6	8

36	Torsional vibration of nonprismatically nonhomogeneous nanowires with multiple defects: Surface energy-nonlocal-integro-based formulations. <i>Applied Mathematical Modelling</i> , 2020 , 82, 17-44	4.5	8
35	Dynamic interactions between double current-carrying nanowires immersed in a longitudinal magnetic field: Novel integro-surface energy-based models. <i>International Journal of Engineering Science</i> , 2016 , 107, 98-133	5.7	8
34	Free vibrations of elastically embedded stocky single-walled carbon nanotubes acted upon by a longitudinally varying magnetic field. <i>Meccanica</i> , 2015 , 50, 3041-3067	2.1	7
33	Elasto-dynamic analysis of spinning nanodisks via a surface energy-based model. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 275306	3	7
32	Nonlocal magneto-thermo-vibro-elastic analysis of vertically aligned arrays of single-walled carbon nanotubes. <i>European Journal of Mechanics, A/Solids</i> , 2018 , 72, 497-515	3.7	7
31	Vibrations of Biaxially Tensioned-embedded Nanoplates for Nanoparticle Delivery. <i>Indian Journal of Science and Technology</i> , 2013 , 6, 1-9	1	7
30	Surface and shear energy effects on vibrations of magnetically affected beam-like nanostructures carrying direct currents. <i>International Journal of Mechanical Sciences</i> , 2016 , 113, 221-238	5.5	7
29	A refined integro-surface energy-based model for vibration of magnetically actuated double-nanowire-systems carrying electric current. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2017 , 86, 225-236	3	6
28	Vertically aligned carbon nanotubes for sensing unidirectional fluid flow. <i>Physica B: Condensed Matter</i> , 2015 , 465, 45-54	2.8	6
27	Dynamic Behavior of Magnetically Affected Rod-Like Nanostructures with Multiple Defects via Nonlocal-Integral/Differential-Based Models. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
26	Response of reinforced concrete structures to macrocell corrosion of reinforcements. Part II: After propagation of microcracks via a numerical approach. <i>Nuclear Engineering and Design</i> , 2012 , 242, 7-18	1.8	5
25	Bilaterally flexural vibrations and instabilities of moving piezoelectric nanowires with surface effect. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	5
24	Bilaterally nonlocal dynamics of layer-by-layer assembly of double-walled carbon nanotubes accounting for intertube rigorous van der Waals forces. <i>European Journal of Mechanics, A/Solids</i> , 2020 , 80, 103876	3.7	5
23	Nonlocal dynamic response of double-nanotube-systems for delivery of lagged-inertial-nanoparticles. <i>International Journal of Mechanical Sciences</i> , 2019 , 152, 576-595	5.5	5
22	On the nonlocality of bilateral vibrations of single-layered membranes from vertically aligned double-walled carbon nanotubes. <i>Physica Scripta</i> , 2020 , 95, 035221	2.6	4
21	Thermo-Elastic Column Buckling of Tapered Nanowires with Axially Varying Material Properties: A Critical Study on the Roles of Shear and Surface Energy. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2019 , 43, 457-475	1.2	4
20	Response of reinforced concrete structures to macrocell corrosion of reinforcements. Part I: Before propagation of microcracks via an analytical approach. <i>Nuclear Engineering and Design</i> , 2011 , 241, 4874-4892	1.8	4
19	Stress analysis of thermally affected rotating nanoshafes with varying material properties. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016 , 32, 813-827	2	4

18	Three-dimensional dynamics of beam-like nanorotors on the basis of newly developed nonlocal shear deformable mode shapes. <i>European Physical Journal Plus</i> , 2018 , 133, 1	3.1	4
17	Nonlocal excitation and potential instability of embedded slender and stocky single-walled carbon nanotubes under harmonically vibrated matrix. <i>Physica B: Condensed Matter</i> , 2017 , 519, 26-38	2.8	3
16	Elastic waves in uniformly infinite-periodic jungles of single-walled carbon nanotubes under action of longitudinal magnetic fields. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019 , 41, 1	2	3
15	Axial buckling scrutiny of doubly orthogonal slender nanotubes via nonlocal continuum theory. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 4267-4272	1.6	3
14	Vibrations of fluid-conveying inclined single-walled carbon nanotubes acted upon by a longitudinal magnetic field. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	3
13	Characteristics of shear horizontal waves in magnetically affected ultra-thin films accounting for surface effect. <i>Wave Motion</i> , 2015 , 53, 20-27	1.8	3
12	Vibrations of double-nanotube systems with mislocation via a newly developed van der Waals model. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 70, 58-76	3	3
11	Nonlocal-integro-surface energy-vibro analysis of twist in coaxially composite wire-like nanostructures with internal and interfacial defects via a meshless technique. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 135, 217-232	2.6	2
10	Propagation of In-Plane Shear Waves in Magnetically Affected Highly Conductive Nanofilms by Considering Both Surface and Nonlocality Effects. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016 , 138,	1.6	2
9	Nonlocal axial load-bearing capacity of two neighboring perpendicular single-walled carbon nanotubes accounting for shear deformation. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 74, 270-286	3	1
8	Vibrational and stability analysis of membrane-like current-carrying nanowires under action of longitudinal magnetic fields. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	1
7	Nonlinear nonlocal-surface energy-based vibrations of a bidirectionally excited nanobeam at its supports. <i>Physica Scripta</i> , 2021 , 96, 025004	2.6	1
6	Nonlocal vibrations and instability of three-dimensionally accelerated moving nanocables. <i>Physica Scripta</i> , 2020 , 95, 105005	2.6	1
5	Elasto-dynamics of doubly mislocated stocky beam-like nanostructures immersed in inclined magnetic fields using nonlocal continuum mechanics. <i>European Physical Journal Plus</i> , 2021 , 136, 1	3.1	1
4	Surface elasticity-based modeling of rotating functionally graded nanoshafts in thermal environments. <i>Journal of Thermal Stresses</i> , 2016 , 39, 1483-1498	2.2	1
3	A rigorously analytical exploration of vibrations of arbitrarily shaped multi-layered nanomembranes from different materials. <i>International Journal of Mechanical Sciences</i> , 2021 , 206, 106603	5.5	1
2	Meshfree vibrational scrutiny of arbitrary placed straight triple-wire-nanosystems carrying direct electric currents using surface elasticity theory. <i>Engineering Analysis With Boundary Elements</i> , 2022 , 140, 113-131	2.6	0
1	Three-dimensional nonlocal-surface energy-based statics, dynamics, and divergence instability of movable cable-like nanostructures with arbitrary translational motion. <i>Archive of Applied Mechanics</i> , 2021 , 91, 3095-3123	2.2	

