Seyed Ahmad Fazelzadeh

List of Publications by Year
in descending order

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93 papers	1,857 citations	279798 23 h-index	289244 40 g-index
96 all docs	96 docs citations	96 times ranked	1048 citing authors

#	Article	IF	Citations
1	Nonlocal continuum-based modeling of mechanical characteristics of nanoscopic structures. Physics Reports, 2016, 638, 1-97.	25.6	140
2	Vibration analysis of viscoelastic orthotropic nanoplates resting on viscoelastic medium. Composite Structures, 2013, 96, 405-410.	5.8	138
3	Vibration analysis of functionally graded thin-walled rotating blades under high temperature supersonic flow using the differential quadrature method. Journal of Sound and Vibration, 2007, 306, 333-348.	3.9	96
4	Exact solution for nonlocal vibration of double-orthotropic nanoplates embedded in elastic medium. Composites Part B: Engineering, 2012, 43, 3384-3390.	12.0	82
5	Nonlocal inflected nano-beams: A stress-driven approach of bi-Helmholtz type. Composite Structures, 2018, 200, 239-245.	5.8	71
6	Flow-thermoelastic vibration and instability analysis of viscoelastic carbon nanotubes embedded in viscous fluid. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 44, 17-24.	2.7	69
7	Nonlocal anisotropic elastic shell model for vibrations of single-walled carbon nanotubes with arbitrary chirality. Composite Structures, 2012, 94, 1016-1022.	5.8	68
8	Vibration suppression and adaptive-robust control of a smart flexible satellite with three axes maneuvering. Acta Astronautica, 2011, 69, 307-322.	3.2	65
9	Bending-torsional flutter of wings with an attached mass subjected to a follower force. Journal of Sound and Vibration, 2009, 323, 148-162.	3.9	62
10	Aerothermoelastic behavior of supersonic rotating thin-walled beams made of functionally graded materials. Journal of Fluids and Structures, 2007, 23, 1251-1264.	3.4	61
11	Review on nonlocal continuum mechanics: Physics, material applicability, and mathematics. Mechanics of Materials, 2020, 150, 103587.	3.2	61
12	Vibration characteristics of single-walled carbon nanotubes based on an anisotropic elastic shell model including chirality effect. Applied Mathematical Modelling, 2012, 36, 4988-5000.	4.2	55
13	Non-conservative instability of cantilever carbon nanotubes resting on viscoelastic foundation. Physica E: Low-Dimensional Systems and Nanostructures, 2012, 44, 1623-1630.	2.7	43
14	Aeroelastic characteristics of functionally graded carbon nanotube-reinforced composite plates under a supersonic flow. Computer Methods in Applied Mechanics and Engineering, 2015, 285, 714-729.	6.6	41
15	Thermoelastic vibration of doubly-curved nano-composite shells reinforced by graphene nanoplatelets. Journal of Thermal Stresses, 2019, 42, 1-17.	2.0	41
16	Maneuver control and active vibration suppression of a two-link flexible arm using a hybrid variable structure/Lyapunov control design. Acta Astronautica, 2010, 67, 1218-1232.	3.2	40
17	Nonlocal elasticity theory for radial vibration of nanoscale spherical shells. European Journal of Mechanics, A/Solids, 2013, 41, 37-42.	3.7	37
18	Free vibration analysis of orthotropic doubly-curved shallow shells based on the gradient elasticity. Composites Part B: Engineering, 2013, 45, 1448-1457.	12.0	36

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19	Thermally induced vibrations of smart solar panel in a low-orbit satellite. Advances in Space Research, 2017, 59, 1502-1513.	2.6	36
20	Nanoscale mass sensing based on vibration of single-layered graphene sheet in thermal environments. Acta Mechanica Sinica/Lixue Xuebao, 2014, 30, 84-91.	3.4	35
21	Uncertainty propagation in vibrational characteristics of functionally graded carbon nanotube-reinforced composite shell panels. International Journal of Mechanical Sciences, 2018, 149, 549-558.	6.7	33
22	Wave propagation in one-dimensional infinite acoustic metamaterials with long-range interactions. Acta Mechanica, 2019, 230, 4453-4461.	2.1	27
23	Radial vibration of free anisotropic nanoparticles based on nonlocal continuum mechanics. Nanotechnology, 2013, 24, 075702.	2.6	26
24	Vibration suppression of smart nonlinear flexible appendages of a rotating satellite by using hybrid adaptive sliding mode/Lyapunov control. JVC/Journal of Vibration and Control, 2013, 19, 975-991.	2.6	25
25	Stability analysis of partially loaded Leipholz column carrying a lumped mass and resting on elastic foundation. Journal of Sound and Vibration, 2013, 332, 595-607.	3.9	22
26	Computational Continuum Mechanics of Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , .	0.3	21
27	Aeroelastic response of an aircraft wing with mounted engine subjected to time-dependent thrust. Journal of Fluids and Structures, 2013, 39, 292-305.	3.4	20
28	Active control law design for flutter suppression and gust alleviation of a panel with piezoelectric actuators. Smart Materials and Structures, 2008, 17, 035013.	3.5	19
29	Evaluation of nonlocal parameter for single-walled carbon nanotubes with arbitrary chirality. Meccanica, 2016, 51, 41-54.	2.0	18
30	Aeroelastic stability analysis of aircraft wings with initial curvature. Aerospace Science and Technology, 2020, 107, 106241.	4.8	16
31	Minimum-time Earthâ€“Moon and Moonâ€“Earth orbital maneuvers using time-domain finite element method. Acta Astronautica, 2010, 66, 528-538.	3.2	15
32	ACTIVE CONTROL OF AN FGM BEAM UNDER FOLLOWER FORCE WITH PIEZOELECTRIC SENSORS/ACTUATORS. International Journal of Structural Stability and Dynamics, 2014, 14, 1350063.	2.4	15
33	Structural instability of carbon nanotubes embedded in viscoelastic medium and subjected to distributed tangential load. Journal of Mechanical Science and Technology, 2013, 27, 2085-2091.	1.5	14
34	Nonlocal continuum-based modeling of breathing mode of nanowires including surface stress and surface inertia effects. Physica B: Condensed Matter, 2014, 440, 43-47.	2.7	14
35	Suppression of nonlinear aeroelastic vibration of a wing/store under gust effects using an adaptive-robust controller. JVC/Journal of Vibration and Control, 2017, 23, 1206-1217.	2.6	14
36	Geometrically Exact, Fully Intrinsic Analysis of Pre-Twisted Beams Under Distributed Follower Forces. AIAA Journal, 2018, 56, 836-848.	2.6	13

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37	Nonlocal fully intrinsic equations for free vibration of Eulerâ€“Bernoulli beams with constitutive boundary conditions. Acta Mechanica, 2018, 229, 3279-3292.	2.1	13
38	Coupled axisymmetric vibration of nonlocal fluid-filled closed spherical membrane shell. Acta Mechanica, 2012, 223, 2011-2020.	2.1	12
39	Divergence and flutter of shear deformable aircraft swept wings subjected to roll angular velocity. Acta Mechanica, 2010, 212, 151-165.	2.1	11
40	Continuum modeling of breathing-like modes of spherical carbon onions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 1600-1606.	2.1	11
41	Aeroelastic Stability Analysis of Tailored Pretwisted Wings. AIAA Journal, 2019, 57, 4458-4466.	2.6	11
42	Thermal Divergence of Supersonic Functionally Graded Plates. Journal of Thermal Stresses, 2011, 34, 759-777.	2.0	10
43	RADIAL VIBRATION CHARACTERISTICS OF SPHERICAL NANOPARTICLES IMMERSED IN FLUID MEDIUM. Modern Physics Letters B, 2013, 27, 1350186.	1.9	10
44	Radial breathing-mode frequency of elastically confined spherical nanoparticles subjected to circumferential magnetic field. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 66, 228-233.	2.7	10
45	Effect of Uniformly Distributed Tangential Follower Force on the Stability of Rotating Cantilever Tube Conveying Fluid. Latin American Journal of Solids and Structures, 2016, 13, 365-377.	1.0	10
46	Oscillations of spherical fullerenes interacting with graphene sheet. Physica B: Condensed Matter, 2017, 504, 47-51.	2.7	9
47	Fuzzy uncertainty analysis in the flutter boundary of an aircraft wing subjected to a thrust force. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2019, 233, 2185-2197.	1.3	9
48	Closed-form expression for geometrically nonlinear large deformation of nano-beams subjected to end force. European Physical Journal Plus, 2018, 133, 1.	2.6	8
49	Dynamic Stability of Pretwisted Cantilever Beams Subjected to Distributed Follower Force. AIAA Journal, 2017, 55, 955-964.	2.6	7
50	Non-conservative stability of spinning pretwisted cantilever beams. Journal of Sound and Vibration, 2018, 412, 130-147.	3.9	7
51	Nonconservative Stability Analysis of Columns with Various Loads and Boundary Conditions. AIAA Journal, 2019, 57, 4269-4277.	2.6	7
52	Aeroelastic analysis of swept pre-twisted wings. Journal of Fluids and Structures, 2020, 95, 103001.	3.4	7
53	Aeroelastic Stability Analysis of Electric Aircraft Wings with Distributed Electric Propulsors. Aerospace, 2021, 8, 100.	2.2	7
54	Control of a Support Excitation Smart Beam Subjected to a Follower Force with Piezoelectric Sensors/Actuators. Latin American Journal of Solids and Structures, 2015, 12, 2403-2416.	1.0	6

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55	Analytical formula to estimate the van der Waals interlayer interaction coefficients for nested spherical fullerenes. Physica B: Condensed Matter, 2015, 478, 63-67.	2.7	6
56	A computational modeling of Raman radial breathing-like mode frequencies of fullerene encapsulated inside single-walled carbon nanotubes. Journal of Molecular Modeling, 2017, 23, 48.	1.8	6
57	Experimental Nonlinear Flutter Analysis of a Cantilever Wing/Store. International Journal of Structural Stability and Dynamics, 2020, 20, 2050082.	2.4	6
58	Trajectory tracking and active vibration suppression of a smart Single-Link flexible arm using a composite control design. Smart Structures and Systems, 2011, 7, 103-116.	1.9	6
59	Fuzzy uncertainty analysis and reliability assessment of aeroelastic aircraft wings. Aeronautical Journal, 2020, 124, 786-811.	1.6	6
60	Buckling Analysis of Nonlocal Anisotropic Thin-Walled Cylindrical Shells Subject to Combined Loading. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	5
61	Nonlinear time domain and stability analysis of beams under partially distributed follower force. Applied Mathematical Modelling, 2019, 73, 303-326.	4.2	5
62	Well-posed nonlocal elasticity model for finite domains and its application to the mechanical behavior of nanorods. Acta Mechanica, 2020, 231, 4019-4033.	2.1	5
63	Flow-Induced Flutter Instability of Functionally Graded Cantilever Pipe. International Journal of Acoustics and Vibrations, 2017, 22, .	0.3	5
64	Formation of quasi-static stop band in a new one-dimensional metamaterial. Archive of Applied Mechanics, 2023, 93, 287-299.	2.2	5
65	EFFECT OF TEMPERATURE CHANGE ON THE RADIAL BREATHING MODE FREQUENCY OF SINGLE-WALLED CARBON NANOTUBES. Nano, 2013, 08, 1350057.	1.0	4
66	Vibration analysis of curved graphene ribbons based on an elastic shell model. Mechanics Research Communications, 2014, 56, 61-68.	1.8	4
67	Thermoelastic vibration and maneuver control of smart satellites. Aircraft Engineering and Aerospace Technology, 2017, 89, 477-490.	1.2	4
68	New insights on nonlocal spherical shell model and its application to free vibration of spherical fullerene molecules. International Journal of Mechanical Sciences, 2019, 161-162, 105046.	6.7	4
69	Flutter suppression of an aircraft wing with a flexibly mounted mass using magneto-rheological damper. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2020, 234, 827-839.	1.3	4
70	Nonlinear Equations of Motion for the Maneuvering Flexible Aircraft Wings. , 2006, , 217.		3
71	Prediction of radial breathing-like modes of double-walled carbon nanotubes with arbitrary chirality. Physica B: Condensed Matter, 2014, 451, 34-38.	2.7	3
72	Raman radial breathing mode frequency of boron nitride nanotubes with bounded uncertain material properties. Micro and Nano Letters, 2015, 10, 617-620.	1.3	3

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73	Aeroelastic Analysis of Unrestrained Aircraft Wing with External Stores Under Roll Maneuver. International Journal of Acoustics and Vibrations, 2016, 21, .	0.3	3
74	Aerothermoelastic Behavior of Supersonic Rotating Thin-Walled Beams Made of Functionally Graded Materials. , 2006, , 227.		2
75	A consistent approach for deriving a 1D constitutive equation for shape memory alloys. Smart Materials and Structures, 2009, 18, 097002.	3.5	2
76	An analytical approach for calculating natural frequencies of finite one-dimensional acoustic metamaterials. Meccanica, 2021, 56, 1819-1829.	2.0	2
77	Fluid-Thermoelastic Behaviors of FGM Thin-Walled Beams and Pipes. , 2014, , 1700-1711.		2
78	Dynamic stability of rotating cantilever meta-sandwich beam subjected to tangential tip non-conservative force. Applied Mathematical Modelling, 2022, 105, 423-437.	4.2	2
79	Flutter Analysis of a 3D Box-Wing Aircraft Configuration. International Journal of Structural Stability and Dynamics, 2022, 22, .	2.4	2
80	Stochastic analysis of two dimensional nonlinear panels with structural damping under random excitation. Aerospace Science and Technology, 2006, 10, 192-198.	4.8	1
81	Nonlocal Elasticity Models for Mechanics of Complex Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , 241-260.	0.3	1
82	Robust Inverse Dynamic Control of a Maneuvering Smart Flexible Satellite with Piezoelectric Layers. International Journal of Acoustics and Vibrations, 2017, 22, .	0.3	1
83	A New and Consistent Approach for Deriving Brinsonâ€™s 1-D Constitutive Equation for Shape Memory Alloys. , 2008, , .		0
84	Suppression Vibration Adaptive Inverse Dynamics Control of Flexible Plate with Piezoelectric Layers. Advanced Materials Research, 0, 403-408, 618-624.	0.3	0
85	Computational Modelling of the Vibrational Characteristics of Zero-Dimensional Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , 143-159.	0.3	0
86	Modelling the Mechanical Characteristics of One-Dimensional Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , 161-185.	0.3	0
87	Modelling the Mechanical Characteristics of Carbon Nanotubes: A Nonlocal Differential Approach. Springer Tracts in Mechanical Engineering, 2019, , 187-217.	0.3	0
88	Fundamental Tenets of Nanomechanics. Springer Tracts in Mechanical Engineering, 2019, , 11-39.	0.3	0
89	Application of Nonlocal Elasticity Theory to Modelling of Two-Dimensional Structures. Springer Tracts in Mechanical Engineering, 2019, , 219-239.	0.3	0
90	Recent Developments and Future Challenges in the Application of Nonlocal Elasticity Theory. Springer Tracts in Mechanical Engineering, 2019, , 261-275.	0.3	0

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91	Nonlocal Modelling of Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , 87-113.	0.3	0
92	Elastic Properties of Carbon-Based Nanoscopic Structures. Springer Tracts in Mechanical Engineering, 2019, , 115-139.	0.3	0
93	One-Dimensional Well-Posed Nonlocal Elasticity Models for Finite Domains. Springer Tracts in Mechanical Engineering, 2021, , 149-168.	0.3	0