

# Hamed Farokhi

## List of Publications by Citations

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128  
papers

5,049  
citations

36  
h-index

68  
g-index

130  
ext. papers

5,437  
ext. citations

4.1  
avg, IF

6.86  
L-index

#	Paper	IF	Citations
128	Nonlinear forced vibrations of a microbeam based on the strain gradient elasticity theory. <i>International Journal of Engineering Science</i> , <b>2013</b> , 63, 52-60	5.7	233
127	Nonlinear behaviour of electrically actuated MEMS resonators. <i>International Journal of Engineering Science</i> , <b>2013</b> , 71, 137-155	5.7	227
126	Nonlinear dynamics of a geometrically imperfect microbeam based on the modified couple stress theory. <i>International Journal of Engineering Science</i> , <b>2013</b> , 68, 11-23	5.7	221
125	Nonlinear dynamics of a microscale beam based on the modified couple stress theory. <i>Composites Part B: Engineering</i> , <b>2013</b> , 50, 318-324	10	213
124	Three-dimensional nonlinear size-dependent behaviour of Timoshenko microbeams. <i>International Journal of Engineering Science</i> , <b>2013</b> , 71, 1-14	5.7	200
123	Thermo-mechanical dynamics of perfect and imperfect Timoshenko microbeams. <i>International Journal of Engineering Science</i> , <b>2015</b> , 91, 12-33	5.7	193
122	In-plane and out-of-plane motion characteristics of microbeams with modal interactions. <i>Composites Part B: Engineering</i> , <b>2014</b> , 60, 423-439	10	171
121	Nonlinear dynamics of microplates. <i>International Journal of Engineering Science</i> , <b>2015</b> , 86, 60-73	5.7	163
120	Nonlinear dynamical behaviour of geometrically imperfect microplates based on modified couple stress theory. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 90, 133-144	5.5	160
119	In-plane and out-of-plane nonlinear size-dependent dynamics of microplates. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 1771-1785	5	157
118	Size-dependent performance of microgyroscopes. <i>International Journal of Engineering Science</i> , <b>2016</b> , 100, 99-111	5.7	151
117	Chaotic motion of a parametrically excited microbeam. <i>International Journal of Engineering Science</i> , <b>2015</b> , 96, 34-45	5.7	149
116	A review on the mechanics of nanostructures. <i>International Journal of Engineering Science</i> , <b>2018</b> , 133, 231-263	5.7	135
115	Oscillations of functionally graded microbeams. <i>International Journal of Engineering Science</i> , <b>2017</b> , 110, 35-53	5.7	119
114	Nonlinear mechanics of electrically actuated microplates. <i>International Journal of Engineering Science</i> , <b>2018</b> , 123, 197-213	5.7	110
113	Nonlinear oscillations of functionally graded microplates. <i>International Journal of Engineering Science</i> , <b>2018</b> , 122, 56-72	5.7	110
112	Vibration analysis of geometrically imperfect three-layered shear-deformable microbeams. <i>International Journal of Mechanical Sciences</i> , <b>2017</b> , 122, 370-383	5.5	96

111	Motion characteristics of bilayered extensible Timoshenko microbeams. <i>International Journal of Engineering Science</i> , <b>2017</b> , 112, 1-17	5.7	88
110	Viscoelastically coupled size-dependent dynamics of microbeams. <i>International Journal of Engineering Science</i> , <b>2016</b> , 109, 243-255	5.7	85
109	Size-dependent parametric dynamics of imperfect microbeams. <i>International Journal of Engineering Science</i> , <b>2016</b> , 99, 39-55	5.7	82
108	Supercritical nonlinear parametric dynamics of Timoshenko microbeams. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2018</b> , 59, 592-605	3.7	81
107	Large-amplitude dynamical behaviour of microcantilevers. <i>International Journal of Engineering Science</i> , <b>2016</b> , 106, 29-41	5.7	78
106	Coupled global dynamics of an axially moving viscoelastic beam. <i>International Journal of Non-Linear Mechanics</i> , <b>2013</b> , 51, 54-74	2.8	76
105	Coupled nonlinear size-dependent behaviour of microbeams. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 112, 329-338	2.6	69
104	Nonlinear resonant behavior of microbeams over the buckled state. <i>Applied Physics A: Materials Science and Processing</i> , <b>2013</b> , 113, 297-307	2.6	62
103	Nonlinear mechanics of nanotubes conveying fluid. <i>International Journal of Engineering Science</i> , <b>2018</b> , 133, 132-143	5.7	57
102	Nonlinear resonant response of imperfect extensible Timoshenko microbeams. <i>International Journal of Mechanics and Materials in Design</i> , <b>2017</b> , 13, 43-55	2.5	56
101	Global dynamics of fluid conveying nanotubes. <i>International Journal of Engineering Science</i> , <b>2019</b> , 135, 37-57	5.7	55
100	Dynamics of functionally graded micro-cantilevers. <i>International Journal of Engineering Science</i> , <b>2017</b> , 115, 117-130	5.7	54
99	Nonlinear bending and forced vibrations of axially functionally graded tapered microbeams. <i>International Journal of Engineering Science</i> , <b>2017</b> , 120, 51-62	5.7	49
98	Subcritical parametric dynamics of microbeams. <i>International Journal of Engineering Science</i> , <b>2015</b> , 95, 36-48	5.7	46
97	Nonlinear mechanical behaviour of microshells. <i>International Journal of Engineering Science</i> , <b>2018</b> , 127, 127-144	5.7	43
96	On the viscoelastic dynamics of fluid-conveying microtubes. <i>International Journal of Engineering Science</i> , <b>2018</b> , 127, 186-200	5.7	42
95	Nonlinear mechanics of doubly curved shallow microshells. <i>International Journal of Engineering Science</i> , <b>2017</b> , 119, 288-304	5.7	42
94	On the dynamics of imperfect shear deformable microplates. <i>International Journal of Engineering Science</i> , <b>2018</b> , 133, 264-283	5.7	40

93	Chaotic motion analysis of fluid-conveying viscoelastic nanotubes. <i>European Journal of Mechanics, A/Solids</i> , <b>2019</b> , 74, 281-296	3.7	38
92	Nonlinear oscillations of viscoelastic microplates. <i>International Journal of Engineering Science</i> , <b>2017</b> , 118, 56-69	5.7	35
91	Size-dependent behaviour of electrically actuated microcantilever-based MEMS. <i>International Journal of Mechanics and Materials in Design</i> , <b>2016</b> , 12, 301-315	2.5	34
90	Large-amplitude coupled scale-dependent behaviour of geometrically imperfect NSGT nanotubes. <i>International Journal of Mechanical Sciences</i> , <b>2019</b> , 150, 510-525	5.5	34
89	On the nonlinear mechanics of layered microcantilevers. <i>International Journal of Engineering Science</i> , <b>2017</b> , 120, 1-14	5.7	27
88	A new nonlinear model for analyzing the behaviour of carbon nanotube-based resonators. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 378, 56-75	3.9	27
87	Global dynamics of imperfect axially forced microbeams. <i>International Journal of Engineering Science</i> , <b>2017</b> , 115, 102-116	5.7	25
86	Chaotic oscillations of viscoelastic microtubes conveying pulsatile fluid. <i>Microfluidics and Nanofluidics</i> , <b>2018</b> , 22, 1	2.8	25
85	Viscoelastically coupled mechanics of fluid-conveying microtubes. <i>International Journal of Engineering Science</i> , <b>2019</b> , 145, 103139	5.7	25
84	Nonlinear motion characteristics of microarches under axial loads based on modified couple stress theory. <i>Archives of Civil and Mechanical Engineering</i> , <b>2015</b> , 15, 401-411	3.4	25
83	Nonlinear thermo-mechanical behaviour of MEMS resonators. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 5303-5315	5.7	23
82	Size-dependent electro-elasto-mechanics of MEMS with initially curved deformable electrodes. <i>International Journal of Mechanical Sciences</i> , <b>2015</b> , 103, 247-264	5.5	23
81	Nonlocal nonlinear mechanics of imperfect carbon nanotubes. <i>International Journal of Engineering Science</i> , <b>2019</b> , 142, 201-215	5.7	22
80	Coupled longitudinal-transverse-rotational behaviour of shear deformable microbeams. <i>Composites Part B: Engineering</i> , <b>2015</b> , 77, 319-328	10	21
79	Electrically actuated MEMS resonators: Effects of fringing field and viscoelasticity. <i>Mechanical Systems and Signal Processing</i> , <b>2017</b> , 95, 345-362	7.8	20
78	Nonlinear broadband performance of energy harvesters. <i>International Journal of Engineering Science</i> , <b>2020</b> , 147, 103202	5.7	20
77	Coupled vibrations of functionally graded Timoshenko microbeams. <i>European Journal of Mechanics, A/Solids</i> , <b>2017</b> , 65, 289-300	3.7	19
76	Nonlinear dynamics of doubly curved shallow microshells. <i>Nonlinear Dynamics</i> , <b>2018</b> , 92, 803-814	5	19

75	Two-dimensional nonlinear dynamics of an axially moving viscoelastic beam with time-dependent axial speed. <i>Chaos, Solitons and Fractals</i> , <b>2013</b> , 52, 8-29	9.3	19
74	Viscoelastic shear deformable microplates: Nonlinear forced resonant characteristics. <i>Mechanical Systems and Signal Processing</i> , <b>2019</b> , 118, 742-756	7.8	19
73	Viscoelastically coupled in-plane and transverse dynamics of imperfect microplates. <i>Thin-Walled Structures</i> , <b>2020</b> , 150, 106117	4.7	19
72	Bending and vibration analyses of coupled axially functionally graded tapered beams. <i>Nonlinear Dynamics</i> , <b>2018</b> , 91, 17-28	5	19
71	Chaos in fluid-conveying NSGT nanotubes with geometric imperfections. <i>Applied Mathematical Modelling</i> , <b>2019</b> , 74, 708-730	4.5	18
70	Internal energy transfer in dynamical behaviour of Timoshenko microarches. <i>Mathematics and Computers in Simulation</i> , <b>2015</b> , 112, 28-39	3.3	18
69	Nonlinear behaviour of electrically actuated microplate-based MEMS resonators. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 109, 220-234	7.8	18
68	Pull-in characteristics of electrically actuated MEMS arches. <i>Mechanism and Machine Theory</i> , <b>2016</b> , 98, 133-150	4	18
67	Nonlinear size-dependent dynamics of an imperfect shear deformable microplate. <i>Journal of Sound and Vibration</i> , <b>2016</b> , 361, 226-242	3.9	17
66	Parametric instability of microbeams in supercritical regime. <i>Nonlinear Dynamics</i> , <b>2016</b> , 83, 1171-1183	5	17
65	Three-Dimensional Nonlinear Global Dynamics of Axially Moving Viscoelastic Beams. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2016</b> , 138,	1.6	17
64	Bistable nonlinear response of MEMS resonators. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 1627-1645	5	17
63	Modified couple stress theory in orthogonal curvilinear coordinates. <i>Acta Mechanica</i> , <b>2019</b> , 230, 851-869	2.1	17
62	Dynamic characterisation of functionally graded imperfect Kirchhoff microplates. <i>Composite Structures</i> , <b>2017</b> , 179, 720-731	5.3	15
61	Size-dependent internal resonances and modal interactions in nonlinear dynamics of microcantilevers. <i>International Journal of Mechanics and Materials in Design</i> , <b>2018</b> , 14, 127-140	2.5	15
60	A coupled nonlinear continuum model for bifurcation behaviour of fluid-conveying nanotubes incorporating internal energy loss. <i>Microfluidics and Nanofluidics</i> , <b>2019</b> , 23, 1	2.8	14
59	Internal Energy Transfer in Dynamical Behavior of Slightly Curved Shear Deformable Microplates. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2016</b> , 11,	1.4	14
58	A higher-order mathematical modeling for dynamic behavior of protein microtubule shell structures including shear deformation and small-scale effects. <i>Mathematical Biosciences</i> , <b>2014</b> , 252, 67-82	3.9	14

57	Resonance Responses of Geometrically Imperfect Functionally Graded Extensible Microbeams. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2017</b> , 12,	1.4	13
56	Thermo-mechanical dynamics of three-dimensional axially moving beams. <i>Nonlinear Dynamics</i> , <b>2015</b> , 80, 1643-1660	5	13
55	On the nonlinear resonant dynamics of Timoshenko microbeams: effects of axial load and geometric imperfection. <i>Meccanica</i> , <b>2016</b> , 51, 155-169	2.1	13
54	A constrained broadband nonlinear energy harvester. <i>Energy Conversion and Management</i> , <b>2019</b> , 197, 111828	10.6	13
53	Viscoelasticity effects on resonant response of a shear deformable extensible microbeam. <i>Nonlinear Dynamics</i> , <b>2017</b> , 87, 391-406	5	13
52	Nonlinear size-dependent dynamics of microarches with modal interactions. <i>JVC/Journal of Vibration and Control</i> , <b>2016</b> , 22, 3679-3689	2	12
51	Geometrically exact extreme vibrations of cantilevers. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 168, 105051	5.5	12
50	Nonlinear behaviour of cantilevered carbon nanotube resonators based on a new nonlinear electrostatic load model. <i>Journal of Sound and Vibration</i> , <b>2018</b> , 419, 604-629	3.9	11
49	Dynamic stability in parametric resonance of axially excited Timoshenko microbeams. <i>Meccanica</i> , <b>2016</b> , 51, 2459-2472	2.1	11
48	Coupled size-dependent behavior of shear deformable microplates. <i>Acta Mechanica</i> , <b>2016</b> , 227, 757-775	2.1	11
47	Nonlinear behaviour and mass detection sensitivity of geometrically imperfect cantilevered carbon nanotube resonators. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2018</b> , 65, 272-298	3.7	11
46	Complex motion characteristics of three-layered Timoshenko microarches. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 3731-3744	1.7	10
45	A coupled longitudinal-transverse nonlinear NSGT model for CNTs incorporating internal energy loss. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	10
44	Extremely large-amplitude dynamics of cantilevers under coupled base excitation. <i>European Journal of Mechanics, A/Solids</i> , <b>2020</b> , 81, 103953	3.7	10
43	A new electrostatic load model for initially curved carbon nanotube resonators: pull-in characteristics and nonlinear resonant behaviour. <i>Nonlinear Dynamics</i> , <b>2017</b> , 88, 1187-1211	5	9
42	Global dynamics of an axially moving buckled beam. <i>JVC/Journal of Vibration and Control</i> , <b>2015</b> , 21, 195-208		9
41	Extremely large dynamics of axially excited cantilevers. <i>Thin-Walled Structures</i> , <b>2020</b> , 154, 106275	4.7	9
40	Direct Numerical Simulation of Interaction between Transient Flow and Blade Structure in a Modern Low-Pressure Turbine. <i>International Journal of Mechanical Sciences</i> , <b>2021</b> , 192, 106104	5.5	9

39	Mechanics of tapered axially functionally graded shallow arches. <i>Composite Structures</i> , <b>2018</b> , 188, 233-241	1.3	9
38	Stability and nonlinear dynamical analysis of functionally graded microplates. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 2109-2121	1.7	8
37	In-plane and out-of-plane nonlinear dynamics of an axially moving beam. <i>Chaos, Solitons and Fractals</i> , <b>2013</b> , 54, 101-121	9.3	8
36	Viscoelastic resonant responses of shear deformable imperfect microbeams. <i>JVC/Journal of Vibration and Control</i> , <b>2018</b> , 24, 3049-3062	2	7
35	Modal interactions and energy transfers in large-amplitude vibrations of functionally graded microcantilevers. <i>JVC/Journal of Vibration and Control</i> , <b>2018</b> , 24, 3882-3893	2	7
34	Coupled Nonlinear Dynamics of Geometrically Imperfect Shear Deformable Extensible Microbeams. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2016</b> , 11,	1.4	7
33	Efficient Broadband Vibration Energy Harvesting Using Multiple Piezoelectric Bimorphs. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2020</b> , 87,	2.7	7
32	Parametric vibrations of imperfect Timoshenko microbeams. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 4917-4929	4.7	6
31	Pulsatile vibrations of viscoelastic microtubes conveying fluid. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 3609-3623	3.23	6
30	Probabilistic optimisation of mono-stringer composite stiffened panels in post-buckling regime. <i>Structural and Multidisciplinary Optimization</i> , <b>2020</b> , 62, 1395-1417	3.6	6
29	Resonant responses of three-layered shear-deformable microbeams. <i>Microsystem Technologies</i> , <b>2018</b> , 24, 2123-2136	1.7	6
28	Nonlinear Dynamical Behavior of Axially Accelerating Beams: Three-Dimensional Analysis. <i>Journal of Computational and Nonlinear Dynamics</i> , <b>2016</b> , 11,	1.4	6
27	A size-dependent nonlinear third-order shear-deformable dynamic model for a microplate on an elastic medium. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 3281-3299	1.7	6
26	Post-buckling dynamics of Timoshenko microbeams under axial loads. <i>International Journal of Dynamics and Control</i> , <b>2015</b> , 3, 403-415	1.7	6
25	Effect of flow pulsations on chaos in nanotubes using nonlocal strain gradient theory. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2020</b> , 83, 105090	3.7	6
24	Local dynamic analysis of imperfect fluid-conveying nanotubes with large deformations incorporating nonlinear damping. <i>JVC/Journal of Vibration and Control</i> , <b>2020</b> , 26, 413-429	2	6
23	Application of nanotubes in conveying nanofluid: a bifurcation analysis with consideration of internal energy loss and geometrical imperfection. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 4357-4371	1.7	6
22	Viscoelastically coupled size-dependent behaviour of imperfect extensible microbeams. <i>International Journal of Mechanics and Materials in Design</i> , <b>2017</b> , 13, 569-581	2.5	5



21	Super and subcritical nonlinear nonlocal analysis of NSGT nanotubes conveying nanofluid. <i>Microsystem Technologies</i> , <b>2019</b> , 25, 4693-4707	1.7	5
20	Extremely Large Oscillations of Cantilevers Subject to Motion Constraints. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86,	2.7	5
19	Size-dependent large-amplitude oscillations of microcantilevers. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 3477-3488	1.7	4
18	A nonlinear viscoelastic model for NSGT nanotubes conveying fluid incorporating slip boundary conditions. <i>JVC/Journal of Vibration and Control</i> , <b>2019</b> , 25, 1883-1894	2	4
17	Mechanics of Fluid-Conveying Microtubes: Coupled Buckling and Post-Buckling. <i>Vibration</i> , <b>2019</b> , 2, 102-115		4
16	Nonlinear frequency domain solution method for aerodynamic and aeromechanical analysis of wind turbines. <i>Renewable Energy</i> , <b>2021</b> , 167, 66-81	8.1	4
15	Nonlinear coupled dynamics of shear deformable microbeams. <i>International Journal of Dynamics and Control</i> , <b>2016</b> , 4, 492-503	1.7	3
14	Modal interactions in primary and subharmonic resonant dynamics of imperfect microplates with geometric nonlinearities. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , <b>2016</b> , 32, 469-480	2	3
13	Global nonlocal viscoelastic dynamics of pulsatile fluid-conveying imperfect nanotubes. <i>European Physical Journal Plus</i> , <b>2019</b> , 134, 1	3.1	3
12	Large-amplitude dynamics of a functionally graded microcantilever with an intermediate spring-support and a point-mass. <i>Acta Mechanica</i> , <b>2017</b> , 228, 4309-4323	2.1	3
11	Geometrically exact dynamics of cantilevered pipes conveying fluid. <i>Journal of Fluids and Structures</i> , <b>2021</b> , 106, 103364	3.1	3
10	Nonsymmetric Nonlinear Dynamics of Piezoelectrically Actuated Beams. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , <b>2019</b> , 141,	1.6	2
9	A New Geometrically Exact Model for Buckling and Postbuckling Statics and Dynamics of Beams. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2019</b> , 86,	2.7	2
8	Large-amplitude parametric response of fluid-conveying nanotubes due to flow pulsations. <i>Microsystem Technologies</i> , <b>2020</b> , 26, 707-720	1.7	2
7	Robust and Reliability-Based Design Optimization of a Composite Floor Beam. <i>Key Engineering Materials</i> , <b>2018</b> , 774, 486-491	0.4	2
6	Asymmetric Oscillations of AFG Microscale Nonuniform Deformable Timoshenko Beams. <i>Vibration</i> , <b>2019</b> , 2, 201-221	2	1
5	Three-dimensional nonlinear extreme vibrations of cantilevers based on a geometrically exact model. <i>Journal of Sound and Vibration</i> , <b>2021</b> , 510, 116295	3.9	1
4	Aeromechanical Analysis of a Complete Wind Turbine Using Nonlinear Frequency Domain Solution Method. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2021</b> , 143,	1.7	1



- 3 Experimentally validated geometrically exact model for extreme nonlinear motions of cantilevers. *Nonlinear Dynamics*, **2022**, 107, 457 5 0
- 2 Motion limiting nonlinear dynamics of initially curved beams. *Thin-Walled Structures*, **2021**, 158, 106346 4.7
- 1 Intravascular Ultrasound for Assessment of Residual Coarctation of the Aorta after Balloon Angioplasty in Infants. *Pediatric Cardiology*, **2021**, 42, 442-450 2.1