

# Mergen H Ghayesh

## List of Publications by Year in descending order

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139  
papers

7,009  
citations

50170

46  
h-index

62479

80  
g-index

140  
all docs

140  
docs citations

140  
times ranked

1751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear behaviour of electrically actuated MEMS resonators. <i>International Journal of Engineering Science</i> , 2013, 71, 137-155.	2.7	256
2	Nonlinear forced vibrations of a microbeam based on the strain gradient elasticity theory. <i>International Journal of Engineering Science</i> , 2013, 63, 52-60.	2.7	252
3	Nonlinear dynamics of a microscale beam based on the modified couple stress theory. <i>Composites Part B: Engineering</i> , 2013, 50, 318-324.	5.9	244
4	Nonlinear dynamics of a geometrically imperfect microbeam based on the modified couple stress theory. <i>International Journal of Engineering Science</i> , 2013, 68, 11-23.	2.7	241
5	Three-dimensional nonlinear size-dependent behaviour of Timoshenko microbeams. <i>International Journal of Engineering Science</i> , 2013, 71, 1-14.	2.7	212
6	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
7	Thermo-mechanical dynamics of perfect and imperfect Timoshenko microbeams. <i>International Journal of Engineering Science</i> , 2015, 91, 12-33.	2.7	208
8	Dynamics of functionally graded viscoelastic microbeams. <i>International Journal of Engineering Science</i> , 2018, 124, 115-131.	2.7	180
9	A review on the mechanics of nanostructures. <i>International Journal of Engineering Science</i> , 2018, 133, 231-263.	2.7	179
10	In-plane and out-of-plane motion characteristics of microbeams with modal interactions. <i>Composites Part B: Engineering</i> , 2014, 60, 423-439.	5.9	176
11	Nonlinear dynamical behaviour of geometrically imperfect microplates based on modified couple stress theory. <i>International Journal of Mechanical Sciences</i> , 2015, 90, 133-144.	3.6	172
12	Nonlinear dynamics of microplates. <i>International Journal of Engineering Science</i> , 2015, 86, 60-73.	2.7	171
13	In-plane and out-of-plane nonlinear size-dependent dynamics of microplates. <i>Nonlinear Dynamics</i> , 2015, 79, 1771-1785.	2.7	165
14	Chaotic motion of a parametrically excited microbeam. <i>International Journal of Engineering Science</i> , 2015, 96, 34-45.	2.7	163
15	Size-dependent performance of microgyroscopes. <i>International Journal of Engineering Science</i> , 2016, 100, 99-111.	2.7	160
16	Nonlinear vibration analysis of axially functionally graded shear-deformable tapered beams. <i>Applied Mathematical Modelling</i> , 2018, 59, 583-596.	2.2	152
17	Oscillations of functionally graded microbeams. <i>International Journal of Engineering Science</i> , 2017, 110, 35-53.	2.7	125
18	Nonlinear oscillations of functionally graded microplates. <i>International Journal of Engineering Science</i> , 2018, 122, 56-72.	2.7	120

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19	Nonlinear mechanics of electrically actuated microplates. <i>International Journal of Engineering Science</i> , 2018, 123, 197-213.	2.7	119
20	Nonlinear dynamics of cantilevered extensible pipes conveying fluid. <i>Journal of Sound and Vibration</i> , 2013, 332, 6405-6418.	2.1	105
21	Vibration analysis of geometrically imperfect three-layered shear-deformable microbeams. <i>International Journal of Mechanical Sciences</i> , 2017, 122, 370-383.	3.6	104
22	Nonlinear mechanics of nanoscale tubes via nonlocal strain gradient theory. <i>International Journal of Engineering Science</i> , 2018, 129, 84-95.	2.7	101
23	Motion characteristics of bilayered extensible Timoshenko microbeams. <i>International Journal of Engineering Science</i> , 2017, 112, 1-17.	2.7	91
24	Stability and bifurcations of an axially moving beam with an intermediate spring support. <i>Nonlinear Dynamics</i> , 2012, 69, 193-210.	2.7	90
25	Viscoelastically coupled size-dependent dynamics of microbeams. <i>International Journal of Engineering Science</i> , 2016, 109, 243-255.	2.7	88
26	Size-dependent parametric dynamics of imperfect microbeams. <i>International Journal of Engineering Science</i> , 2016, 99, 39-55.	2.7	88
27	Supercritical nonlinear parametric dynamics of Timoshenko microbeams. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2018, 59, 592-605.	1.7	87
28	Coupled global dynamics of an axially moving viscoelastic beam. <i>International Journal of Non-Linear Mechanics</i> , 2013, 51, 54-74.	1.4	85
29	Nonlinear dynamic response of axially moving, stretched viscoelastic strings. <i>Archive of Applied Mechanics</i> , 2011, 81, 781-799.	1.2	84
30	Nonlinear vibrations and stability of parametrically excited systems with cubic nonlinearities and internal boundary conditions: A general solution procedure. <i>Applied Mathematical Modelling</i> , 2012, 36, 3299-3311.	2.2	83
31	Large-amplitude dynamical behaviour of microcantilevers. <i>International Journal of Engineering Science</i> , 2016, 106, 29-41.	2.7	83
32	Nonlinear vibrations and stability of an axially moving beam with an intermediate spring support: two-dimensional analysis. <i>Nonlinear Dynamics</i> , 2012, 70, 335-354.	2.7	80
33	A general solution procedure for vibrations of systems with cubic nonlinearities and nonlinear/time-dependent internal boundary conditions. <i>Journal of Sound and Vibration</i> , 2011, 330, 5382-5400.	2.1	78
34	Nonlinear mechanics of nanotubes conveying fluid. <i>International Journal of Engineering Science</i> , 2018, 133, 132-143.	2.7	77
35	Subharmonic dynamics of an axially accelerating beam. <i>Archive of Applied Mechanics</i> , 2012, 82, 1169-1181.	1.2	76
36	Coupled nonlinear size-dependent behaviour of microbeams. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 329-338.	1.1	73

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37	Nonlinear dynamics of an axially moving Timoshenko beam with an internal resonance. <i>Nonlinear Dynamics</i> , 2013, 73, 39-52.	2.7	70
38	Vibrations and stability of axially traveling laminated beams. <i>Applied Mathematics and Computation</i> , 2010, 217, 545-556.	1.4	67
39	Thermo-mechanical nonlinear dynamics of a buckled axially moving beam. <i>Archive of Applied Mechanics</i> , 2013, 83, 25-42.	1.2	67
40	Assist-as-Needed Control of an Intrinsically Compliant Robotic Gait Training Orthosis. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1675-1685.	5.2	67
41	Nonlinear resonant behavior of microbeams over the buckled state. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 113, 297-307.	1.1	65
42	Nonlinear resonant response of imperfect extensible Timoshenko microbeams. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 43-55.	1.7	62
43	Review on Design and Control Aspects of Robotic Shoulder Rehabilitation Orthoses. <i>IEEE Transactions on Human-Machine Systems</i> , 2017, 47, 1134-1145.	2.5	55
44	Nonlinear mechanical behaviour of microshells. <i>International Journal of Engineering Science</i> , 2018, 127, 127-144.	2.7	54
45	Three-dimensional biomechanics of coronary arteries. <i>International Journal of Engineering Science</i> , 2018, 130, 93-114.	2.7	54
46	On the dynamics of imperfect shear deformable microplates. <i>International Journal of Engineering Science</i> , 2018, 133, 264-283.	2.7	47
47	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
48	Size-dependent behaviour of electrically actuated microcantilever-based MEMS. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 301-315.	1.7	42
49	Nonlinear biomechanics of bifurcated atherosclerotic coronary arteries. <i>International Journal of Engineering Science</i> , 2018, 133, 60-83.	2.7	38
50	A review on the biomechanics of coronary arteries. <i>International Journal of Engineering Science</i> , 2020, 147, 103201.	2.7	38
51	State-of-the-Art Robotic Devices for Wrist Rehabilitation: Design and Control Aspects. <i>IEEE Transactions on Human-Machine Systems</i> , 2020, 50, 361-372.	2.5	38
52	Thermo-mechanical nonlinear vibration analysis of a spring-mass-beam system. <i>Archive of Applied Mechanics</i> , 2012, 82, 317-331.	1.2	37
53	An analytical solution for nonlinear dynamics of a viscoelastic beam-heavy mass system. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 1915-1923.	0.7	30
54	Nonlinear coupled mechanics of nanotubes incorporating both nonlocal and strain gradient effects. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 373-382.	1.5	29

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55	Nonlinear thermo-mechanical behaviour of MEMS resonators. <i>Microsystem Technologies</i> , 2017, 23, 5303-5315.	1.2	28
56	Nonlinear dynamics of doubly curved shallow microshells. <i>Nonlinear Dynamics</i> , 2018, 92, 803-814.	2.7	28
57	State-of-the-art robotic devices for ankle rehabilitation: Mechanism and control review. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2017, 231, 1224-1234.	1.0	27
58	Chaotic oscillations of viscoelastic microtubes conveying pulsatile fluid. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	27
59	Free vibrations of beam-mass-spring systems: analytical analysis with numerical confirmation. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 468-481.	1.5	26
60	Nonlinear size-dependent behaviour of single-walled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1393-1399.	1.1	26
61	Mechanics of tapered AFG shear-deformable microbeams. <i>Microsystem Technologies</i> , 2018, 24, 1743-1754.	1.2	25
62	Nonlinear Dynamics of Multilayered Microplates. <i>Journal of Computational and Nonlinear Dynamics</i> , 2018, 13, .	0.7	25
63	Modified couple stress theory in orthogonal curvilinear coordinates. <i>Acta Mechanica</i> , 2019, 230, 851-869.	1.1	24
64	Bistable nonlinear response of MEMS resonators. <i>Nonlinear Dynamics</i> , 2017, 90, 1627-1645.	2.7	23
65	Bending and vibration analyses of coupled axially functionally graded tapered beams. <i>Nonlinear Dynamics</i> , 2018, 91, 17-28.	2.7	23
66	Robotic orthoses for gait rehabilitation: An overview of mechanical design and control strategies. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2020, 234, 444-457.	1.0	23
67	Adaptive Impedance Control of Parallel Ankle Rehabilitation Robot. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	22
68	Resonant vibrations of FG viscoelastic imperfect Timoshenko beams. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 1823-1832.	1.5	22
69	Three-dimensional nonlinear planar dynamics of an axially moving Timoshenko beam. <i>Archive of Applied Mechanics</i> , 2013, 83, 591-604.	1.2	21
70	On the dynamics of axially functionally graded CNT strengthened deformable beams. <i>European Physical Journal Plus</i> , 2020, 135, 1.	1.2	21
71	Parametric instability of microbeams in supercritical regime. <i>Nonlinear Dynamics</i> , 2016, 83, 1171-1183.	2.7	20
72	Size-dependent internal resonances and modal interactions in nonlinear dynamics of microcantilevers. <i>International Journal of Mechanics and Materials in Design</i> , 2018, 14, 127-140.	1.7	20

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73	Parametric Stability and Bifurcations of Axially Moving Viscoelastic Beams with Time-Dependent Axial Speed. <i>Mechanics Based Design of Structures and Machines</i> , 2013, 41, 359-381.	3.4	19
74	Thermo-mechanical dynamics of three-dimensional axially moving beams. <i>Nonlinear Dynamics</i> , 2015, 80, 1643-1660.	2.7	19
75	Effects of geometric nonlinearities on the coupled dynamics of CNT strengthened composite beams with porosity, mass and geometric imperfections. <i>Engineering With Computers</i> , 2022, 38, 3463-3488.	3.5	19
76	Nonlinear size-dependent dynamics of microarches with modal interactions. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 3679-3689.	1.5	18
77	Porosity, mass and geometric imperfection sensitivity in coupled vibration characteristics of CNT-strengthened beams with different boundary conditions. <i>Engineering With Computers</i> , 2022, 38, 2313-2339.	3.5	17
78	A Parametrically Broadband Nonlinear Energy Harvester. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2017, 139, .	1.4	16
79	Musculoskeletal modelling of human ankle complex: Estimation of ankle joint moments. <i>Clinical Biomechanics</i> , 2017, 44, 75-82.	0.5	16
80	Vibrations of shear deformable FG viscoelastic microbeams. <i>Microsystem Technologies</i> , 2019, 25, 1387-1400.	1.2	16
81	On the nonlinear resonant dynamics of Timoshenko microbeams: effects of axial load and geometric imperfection. <i>Meccanica</i> , 2016, 51, 155-169.	1.2	15
82	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
83	Thermal Effects on Nonlinear Vibrations of an Axially Moving Beam with an Intermediate Spring-Mass Support. <i>Shock and Vibration</i> , 2013, 20, 385-399.	0.3	14
84	Resonance Responses of Geometrically Imperfect Functionally Graded Extensible Microbeams. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, .	0.7	14
85	Nonlinear continuum mechanics of thick hyperelastic sandwich beams using various shear deformable beam theories. <i>Continuum Mechanics and Thermodynamics</i> , 2022, 34, 781-827.	1.4	14
86	Dynamic stability in parametric resonance of axially excited Timoshenko microbeams. <i>Meccanica</i> , 2016, 51, 2459-2472.	1.2	13
87	Viscoelasticity effects on resonant response of a shear deformable extensible microbeam. <i>Nonlinear Dynamics</i> , 2017, 87, 391-406.	2.7	13
88	A continuum viscoelastic model of Timoshenko NSGT nanobeams. <i>Engineering With Computers</i> , 2022, 38, 631-646.	3.5	13
89	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
90	In vivo based biomechanics of right and left coronary arteries. <i>International Journal of Engineering Science</i> , 2020, 154, 103281.	2.7	12

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91	Coupled size-dependent behavior of shear deformable microplates. <i>Acta Mechanica</i> , 2016, 227, 757-775.	1.1	11
92	Complex motion characteristics of three-layered Timoshenko microarches. <i>Microsystem Technologies</i> , 2017, 23, 3731-3744.	1.2	11
93	Stability and bifurcation characteristics of viscoelastic microcantilevers. <i>Microsystem Technologies</i> , 2018, 24, 4739-4746.	1.2	11
94	Viscoelastic nonlinear dynamic behaviour of Timoshenko FG beams. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	11
95	Efficient Broadband Vibration Energy Harvesting Using Multiple Piezoelectric Bimorphs. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	11
96	Parametric vibrations of imperfect Timoshenko microbeams. <i>Microsystem Technologies</i> , 2017, 23, 4917-4929.	1.2	10
97	Design, Fabrication, and Test of a Coupled Parametricâ€“Transverse Nonlinearly Broadband Energy Harvester. <i>IEEE Transactions on Energy Conversion</i> , 2018, 33, 457-464.	3.7	10
98	A new equivalent sand grain roughness relation for two-dimensional rough wall turbulent boundary layers. <i>Journal of Fluid Mechanics</i> , 2022, 940, .	1.4	10
99	A Nonlinearly Broadband Tuneable Energy Harvester. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2017, 139, .	0.9	9
100	Stability and nonlinear dynamical analysis of functionally graded microplates. <i>Microsystem Technologies</i> , 2018, 24, 2109-2121.	1.2	9
101	Viscoelastic resonant responses of shear deformable imperfect microbeams. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3049-3062.	1.5	9
102	Resonant dynamics of axially functionally graded imperfect tapered Timoshenko beams. <i>JVC/Journal of Vibration and Control</i> , 2019, 25, 336-350.	1.5	9
103	Resonant responses of three-layered shear-deformable microbeams. <i>Microsystem Technologies</i> , 2018, 24, 2123-2136.	1.2	8
104	Modal interactions and energy transfers in large-amplitude vibrations of functionally graded microcantilevers. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 3882-3893.	1.5	8
105	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
106	In Vivo Based Fluidâ€“Structure Interaction Biomechanics of the Left Anterior Descending Coronary Artery. <i>Journal of Biomechanical Engineering</i> , 2021, 143, .	0.6	8
107	Coupled Nonlinear Dynamics of Geometrically Imperfect Shear Deformable Extensible Microbeams. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016, 11, .	0.7	7
108	Global nonlocal viscoelastic dynamics of pulsatile fluid-conveying imperfect nanotubes. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	7

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109	Pulsatile vibrations of viscoelastic microtubes conveying fluid. <i>Microsystem Technologies</i> , 2019, 25, 3609-3623.	1.2	7
110	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
111	Numerical Framework and Design Optimization of an Intrinsically Compliant 3-DOF Parallel Robot. <i>Journal of Computing and Information Science in Engineering</i> , 2021, 21, .	1.7	7
112	Automated Coronary Optical Coherence Tomography Feature Extraction with Application to Three-Dimensional Reconstruction. <i>Tomography</i> , 2022, 8, 1307-1349.	0.8	7
113	Post-buckling dynamics of Timoshenko microbeams under axial loads. <i>International Journal of Dynamics and Control</i> , 2015, 3, 403-415.	1.5	6
114	Viscoelastically coupled size-dependent behaviour of imperfect extensible microbeams. <i>International Journal of Mechanics and Materials in Design</i> , 2017, 13, 569-581.	1.7	6
115	A size-dependent nonlinear third-order shear-deformable dynamic model for a microplate on an elastic medium. <i>Microsystem Technologies</i> , 2017, 23, 3281-3299.	1.2	6
116	Viscoelastically coupled dynamics of FG Timoshenko microbeams. <i>Microsystem Technologies</i> , 2019, 25, 651-663.	1.2	6
117	Mechanics of Fluid-Conveying Microtubes: Coupled Buckling and Post-Buckling. <i>Vibration</i> , 2019, 2, 102-115.	0.9	6
118	Local dynamic analysis of imperfect fluid-conveying nanotubes with large deformations incorporating nonlinear damping. <i>JVC/Journal of Vibration and Control</i> , 2020, 26, 413-429.	1.5	6
119	On the mechanics of shear deformable micro beams under thermo-mechanical loads using finite element analysis and deep learning neural network. <i>Mechanics Based Design of Structures and Machines</i> , 2023, 51, 6612-6656.	3.4	6
120	Super and subcritical nonlinear nonlocal analysis of NSGT nanotubes conveying nanofluid. <i>Microsystem Technologies</i> , 2019, 25, 4693-4707.	1.2	5
121	Large-amplitude parametric response of fluid-conveying nanotubes due to flow pulsations. <i>Microsystem Technologies</i> , 2020, 26, 707-720.	1.2	5
122	Performance based design optimization of an intrinsically compliant 6-dof parallel robot. <i>Mechanics Based Design of Structures and Machines</i> , 2020, , 1-16.	3.4	5
123	Size-dependent dynamics of double-microbeam systems with various boundary conditions via modified couple stress theory. <i>Microsystem Technologies</i> , 2021, 27, 3193-3210.	1.2	5
124	Modal interactions in primary and subharmonic resonant dynamics of imperfect microplates with geometric nonlinearities. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2016, 32, 469-480.	1.5	4
125	Nonlinear coupled dynamics of shear deformable microbeams. <i>International Journal of Dynamics and Control</i> , 2016, 4, 492-503.	1.5	4
126	Size-dependent large-amplitude oscillations of microcantilevers. <i>Microsystem Technologies</i> , 2017, 23, 3477-3488.	1.2	4



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127	Large-amplitude dynamics of a functionally graded microcantilever with an intermediate spring-support and a point-mass. <i>Acta Mechanica</i> , 2017, 228, 4309-4323.	1.1	4
128	Improving Passive Stability of a Planar Quasi-Zero Stiffness Magnetic Levitation System via Lever Arm. , 2018, , .		4
129	Vibration characterisation of AFG microcantilevers in nonlinear regime. <i>Microsystem Technologies</i> , 2019, 25, 3061-3069.	1.2	4
130	A coupled nonlinear nonlocal strain gradient theory for functionally graded Timoshenko nanobeams. <i>Microsystem Technologies</i> , 2020, 26, 2053-2066.	1.2	4
131	Dynamics of nonuniform deformable AFG viscoelastic microbeams. <i>Microsystem Technologies</i> , 2019, 25, 3857-3866.	1.2	3
132	Effect of body weight support variation on muscle activities during robot assisted gait: a dynamic simulation study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2017, 20, 626-635.	0.9	2
133	Nonsymmetric Nonlinear Dynamics of Piezoelectrically Actuated Beams. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2019, 141, .	1.0	2
134	Optical Coherence Tomography Based Biomechanical Fluid-Structure Interaction Analysis of Coronary Atherosclerosis Progression. <i>Journal of Visualized Experiments</i> , 2022, , .	0.2	2
135	Wall Shear Stress for an Aorta with Aneurysms Via Computational Fluid Dynamics. , 2022, , 27-37.		2
136	Nonlinear Mechanics of Beams With Partial Piezoelectric Layers. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2019, 86, .	1.1	1
137	Asymmetric Oscillations of AFG Microscale Nonuniform Deformable Timoshenko Beams. <i>Vibration</i> , 2019, 2, 201-221.	0.9	1
138	Energy Concentration by Bluff Bodiesâ€™A Particle Image Velocimetry Investigation. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	1
139	Effect of Nonlinear Blood Viscosity on LDL Transport and Fluid-Structure Interaction Biomechanics of a Multi-stenosis Left Circumflex Coronary Artery. , 2022, , 39-48.		0