

Hamid Moeenfard

List of Publications by Year in descending order

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66
papers

722
citations

687220

13
h-index

580701

25
g-index

66
all docs

66
docs citations

66
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonlinear dynamic modeling of surface defects in rolling element bearing systems. <i>Journal of Sound and Vibration</i> , 2009, 319, 1150-1174.	2.1	172
2	A homotopy perturbation analysis of nonlinear free vibration of Timoshenko microbeams. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 557-565.	0.7	46
3	Development of a multi-level adaptive fuzzy controller for beyond pull-in stabilization of electrostatically actuated microplates. <i>JVC/Journal of Vibration and Control</i> , 2018, 24, 860-878.	1.5	42
4	Analytical modeling of large amplitude free vibration of non-uniform beams carrying a both transversely and axially eccentric tip mass. <i>Journal of Sound and Vibration</i> , 2016, 366, 211-229.	2.1	36
5	Nonlinear analysis of functionally graded piezoelectric energy harvesters. <i>Composite Structures</i> , 2017, 182, 199-208.	3.1	31
6	A NEW EFFICIENT APPROACH FOR MODELING AND SIMULATION OF NANO-SWITCHES UNDER THE COMBINED EFFECTS OF INTERMOLECULAR SURFACE FORCES AND ELECTROSTATIC ACTUATION. <i>International Journal of Applied Mechanics</i> , 2009, 01, 349-365.	1.3	28
7	Static behavior of nano/micromirrors under the effect of Casimir force, an analytical approach. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 537-543.	0.7	25
8	Modeling Geometric Nonlinearities in the Free Vibration of a Planar Beam Flexure With a Tip Mass. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2014, 136, .	1.7	23
9	Analytical modeling of bending effect on the torsional response of electrostatically actuated micromirrors. <i>Optik</i> , 2013, 124, 1278-1286.	1.4	22
10	A constraint model for beam flexure modules with an intermediate semi-rigid element. <i>International Journal of Mechanical Sciences</i> , 2017, 122, 167-183.	3.6	20
11	Topology optimization of fundamental compliant mechanisms using a novel asymmetric beam flexure. <i>International Journal of Mechanical Sciences</i> , 2018, 135, 383-397.	3.6	19
12	A novel flexure beam module with low stiffness loss in compliant mechanisms. <i>Precision Engineering</i> , 2017, 48, 216-233.	1.8	18
13	Modeling squeezed film air damping in torsional micromirrors using extended Kantorovich method. <i>Meccanica</i> , 2013, 48, 791-805.	1.2	15
14	A frequency criterion for doubly clamped beam-type N/MEMS subjected to the van der Waals attraction. <i>Applied Mathematical Modelling</i> , 2017, 41, 650-666.	2.2	14
15	Size-dependent piezoelectric energy-harvesting analysis of micro/nano bridges subjected to random ambient excitations. <i>Smart Materials and Structures</i> , 2018, 27, 025015.	1.8	13
16	A coupled two degree of freedom pull-in model for micromirrors under capillary force. <i>Acta Mechanica</i> , 2012, 223, 387-394.	1.1	12
17	Modeling of Pull-In Instability of Nano/Micromirrors Under the Combined Effect of Capillary and Casimir Forces. <i>International Journal of Optomechatronics</i> , 2011, 5, 378-392.	3.3	11
18	Analytical modeling of static behavior of electrostatically actuated nano/micromirrors considering van der Waals forces. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2012, 28, 729-736.	1.5	11

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19	Analytical closed form model for static pull-in analysis in electrostatically actuated torsional micromirrors. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1443-1449.	0.7	11
20	Characterization of the static behavior of micromirrors under the effect of capillary force, an analytical approach. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 2361-2372.	1.1	10
21	Vibration attenuation of rotor-bearing systems using smart electro-rheological elastomer supports. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	10
22	Energy harvesting from unimorph piezoelectric circular plates under random acoustic and base acceleration excitations. <i>Mechanical Systems and Signal Processing</i> , 2019, 130, 502-523.	4.4	10
23	The influence of vertical deflection of the supports in modeling squeeze film damping in torsional micromirrors. <i>Microelectronics Journal</i> , 2012, 43, 530-536.	1.1	8
24	ANALYTICAL MODELING OF SQUEEZE FILM DAMPING IN DUAL AXIS TORSION MICROACTUATORS. <i>Surface Review and Letters</i> , 2015, 22, 1550006.	0.5	8
25	ANALYTICAL MODELING OF THE EFFECTS OF ELECTROSTATIC ACTUATION AND CASIMIR FORCE ON THE PULL-IN INSTABILITY AND STATIC BEHAVIOR OF TORSIONAL NANO/MICRO ACTUATORS. <i>International Journal of Modern Physics B</i> , 2013, 27, 1350008.	1.0	6
26	Analytical modeling of nonlinear flexural-extensional vibration of flexure beams with an interconnected compliant element. <i>Mechanics Research Communications</i> , 2018, 89, 23-33.	1.0	6
27	Load-displacement behavior of fundamental flexure modules interconnected with compliant elements. <i>Mechanism and Machine Theory</i> , 2018, 120, 120-139.	2.7	6
28	An analytical approach for modeling nonlinear vibration of doubly clamped functionally graded Timoshenko microbeams using strain gradient theory. <i>International Journal of Dynamics and Control</i> , 2018, 6, 990-1007.	1.5	6
29	A coupled bending-torsion model for electrostatically actuated torsional nano/micro-actuators with considering influence of van der Waals force. <i>Acta Mechanica</i> , 2013, 224, 1791-1800.	1.1	5
30	Characterization of the static behavior of electrically actuated micro-plates using extended Kantorovich method. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2017, 231, 2327-2339.	1.1	5
31	Size-dependent nonlinear vibration analysis of shear deformable microarches using strain gradient theory. <i>Acta Mechanica</i> , 2018, 229, 3025-3049.	1.1	5
32	Optimal Design of a Stable Fuzzy Controller for Beyond Pull-In Stabilization of Electrostatically Actuated Circular Microplates. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2019, 141, .	1.0	5
33	Development of optimal polymeric foams with superior sound absorption and transmission loss. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	5
34	Analytical modeling of variable thickness cylindrical shallow shells using extended Kantorovich method. <i>European Journal of Mechanics, A/Solids</i> , 2022, 96, 104727.	2.1	5
35	NONLINEAR FREE VIBRATION OF SIMPLY SUPPORTED BEAMS CONSIDERING THE EFFECTS OF SHEAR DEFORMATION AND ROTARY INERTIA, A HOMOTOPY PERTURBATION APPROACH. <i>International Journal of Modern Physics B</i> , 2011, 25, 441-455.	1.0	4
36	Coupled Bending and Torsion Effects on the Squeezed Film Air Damping in Torsional Micromirrors. , 2012, , .		4

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37	Nonlinear dynamic modeling of a parallelogram flexure. Mechanism and Machine Theory, 2020, 153, 103985.	2.7	4
38	Nonlinear extensional-flexural vibrations in variable cross section beams with eccentric intermediate mass. International Journal of Mechanical Sciences, 2021, 196, 106248.	3.6	4
39	Development of a fuzzy-state feedback regulator for stabilizing a flexible inverted pendulum system. JVC/Journal of Vibration and Control, 2023, 29, 131-147.	1.5	4
40	Analytical Solutions for the Static Instability of Nano-Switches Under the Effect of Casimir Force and Electrostatic Actuation. , 2009, , .		3
41	Application of the Extended Kantorovich Method to the Vibrational Analysis of Electrically Actuated Microplates. , 2009, , .		3
42	INFLUENCE OF VAN DER WAALS FORCE ON STATIC BEHAVIOR OF NANO/MICROMIRRORS UNDER CAPILLARY FORCE. International Journal of Modern Physics B, 2012, 26, 1250056.	1.0	3
43	Entropy generation analysis of squeeze film air damping in torsional micromirrors. Optik, 2015, 126, 28-37.	1.4	3
44	Deflection Control of Electrostatically Actuated Micro Cantilevers via Fuzzy Controller. , 2016, , .		3
45	An optimal fuzzy controller stabilizing the rod and controlling the position of single wheeled inverted pendulums. , 2016, , .		3
46	Beyond pull-in angle control of a dual axis torsional micro-actuator considering bending effects. Applied Mathematical Modelling, 2022, 107, 133-150.	2.2	3
47	Application of the Extended Kantorovich Method to the Static Deflection of Electrically Actuated Microplates. , 2008, , .		2
48	Analytical Modeling of Squeeze Film Damping in Micromirrors. , 2011, , .		2
49	On the Effects of Structural Coupling on Piezoelectric Energy Harvesting Systems Subject to Random Base Excitation. Aerospace, 2020, 7, 93.	1.1	2
50	Beyond Pull-In Stabilization of Dual Axis Micromirrors Using Fuzzy Controllers. , 2010, , .		1
51	Nonlinear Analysis of Pull-In Voltage for a Fully Clamped Microplate With Movable Base. , 2012, , .		1
52	A Two-Level Adaptive Fuzzy Control Algorithm for Beyond Pull-In Stabilization of Electrostatically Actuated Microplates. , 2016, , .		1
53	Analytical modeling of nonlinear vibrations in a 2-DOF airfoil device based on an unsteady flow model. Nonlinear Dynamics, 2018, 91, 427-442.	2.7	1
54	Random vibration analysis of multi-floor buildings using a distributed parameter model. Soil Dynamics and Earthquake Engineering, 2018, 115, 18-26.	1.9	1

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55	An Analytical Approach to Modeling Static Behavior of Torsional Nano-/Micro-actuators under Effect of van der Waals Force. Japanese Journal of Applied Physics, 2012, 51, 037201.	0.8	1
56	Investigation of Casimir and Van der Waals Forces for a Nonlinear Double-Clamped Beam Using Homotopy Perturbation Method. , 2009, , .		0
57	Nonlinear Vibration and Buckling Analysis of Beams Using Homotopy Perturbation Method. , 2010, , .		0
58	An Analytical Approach to Modeling Static Behavior of Torsional Nano-/Micro-actuators under Effect of van der Waals Force. Japanese Journal of Applied Physics, 2012, 51, 037201.	0.8	0
59	Modeling Geometric Non-Linearities in the Free Vibration of a Planar Beam Flexure With a Tip Mass. , 2012, , .		0
60	A Coupled Two Degree of Freedom Model for Nano/Micromirrors Under van der Waals Force. , 2012, , .		0
61	Characterization of Static Behavior of Electrostatically Actuated Micro Tweezers Using Modified Couple Stress Theory. , 2012, , .		0
62	Influence of Fringing Field Effect on the Pull-In of Size Dependent Micro-Beams. , 2012, , .		0
63	Nonlinear Coupled Transverse and Axial Vibration of Variable Cross-Section Beam Flexures Interconnecting Rigid Body. , 2016, , .		0
64	Stabilization of Biped Trunk in the Presense of Hip Motion Disturbance Using a Fuzzy-PID Controller. , 2018, , .		0
65	Vibration Suppression of MR Sandwich Beams Based On Fuzzy Logic. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 227-238.	0.3	0
66	Logic Analytical Modeling of Piezoelectric Energy Harvesters under Random Base Excitation. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 239-249.	0.3	0