# Hamid Moeenfard

List of Publications by Year
in descending order

| | | 687220 | 580701 |
|---|---|---|---|
| **66**<br>papers | **722**<br>citations | **13**<br>h-index | **25**<br>g-index |
| **66**<br>all docs | **66**<br>docs citations | **66**<br>times ranked | **519**<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | Development of optimal polymeric foams with superior sound absorption and transmission loss. Journal of Applied Polymer Science, 2022, 139, . | 1.3 | 5 |
| 4 | Analytical modeling of variable thickness cylindrical shallow shells using extended Kantorovich method. European Journal of Mechanics, A/Solids, 2022, 96, 104727. | 2.1 | 5 |
| 5 | Nonlinear extensional-flexural vibrations in variable cross section beams with eccentric intermediate mass. International Journal of Mechanical Sciences, 2021, 196, 106248. | 3.6 | 4 |
| 6 | On the Effects of Structural Coupling on Piezoelectric Energy Harvesting Systems Subject to Random Base Excitation. Aerospace, 2020, 7, 93. | 1.1 | 2 |
| 7 | Nonlinear dynamic modeling of a parallelogram flexure. Mechanism and Machine Theory, 2020, 153, 103985. | 2.7 | 4 |
| 8 | Vibration attenuation of rotor-bearing systems using smart electro-rheological elastomer supports. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1. | 0.8 | 10 |
| 9 | Energy harvesting from unimorph piezoelectric circular plates under random acoustic and base acceleration excitations. Mechanical Systems and Signal Processing, 2019, 130, 502-523. | 4.4 | 10 |
| 10 | Optimal Design of a Stable Fuzzy Controller for Beyond Pull-In Stabilization of Electrostatically Actuated Circular Microplates. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, . | 1.0 | 5 |
| 11 | Size-dependent nonlinear vibration analysis of shear deformable microarches using strain gradient theory. Acta Mechanica, 2018, 229, 3025-3049. | 1.1 | 5 |
| 12 | Size-dependent piezoelectric energy-harvesting analysis of micro/nano bridges subjected to random ambient excitations. Smart Materials and Structures, 2018, 27, 025015. | 1.8 | 13 |
| 13 | Analytical modeling of nonlinear flexural-extensional vibration of flexure beams with an interconnected compliant element. Mechanics Research Communications, 2018, 89, 23-33. | 1.0 | 6 |
| 14 | Development of a multi-level adaptive fuzzy controller for beyond pull-in stabilization of electrostatically actuated microplates. JVC/Journal of Vibration and Control, 2018, 24, 860-878. | 1.5 | 42 |
| 15 | Load-displacement behavior of fundamental flexure modules interconnected with compliant elements. Mechanism and Machine Theory, 2018, 120, 120-139. | 2.7 | 6 |
| 16 | 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 |
| 17 | An analytical approach for modeling nonlinear vibration of doubly clamped functionally graded Timoshenko microbeams using strain gradient theory. International Journal of Dynamics and Control, 2018, 6, 990-1007. | 1.5 | 6 |
| 18 | Topology optimization of fundamental compliant mechanisms using a novel asymmetric beam flexure. International Journal of Mechanical Sciences, 2018, 135, 383-397. | 3.6 | 19 |

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|---|---------|----|-----------|
| 19 | Stabilization of Biped Trunk in the Presense of Hip Motion Disturbance Using a Fuzzy-PID Controller. , 2018, , . | | 0 |
| 20 | Random vibration analysis of multi-floor buildings using a distributed parameter model. Soil Dynamics and Earthquake Engineering, 2018, 115, 18-26. | 1.9 | 1 |
| 21 | Characterization of the static behavior of electrically actuated micro-plates using extended Kantorovich method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 2327-2339. | 1.1 | 5 |
| 22 | A novel flexure beam module with low stiffness loss in compliant mechanisms. Precision Engineering, 2017, 48, 216-233. | 1.8 | 18 |
| 23 | Nonlinear analysis of functionally graded piezoelectric energy harvesters. Composite Structures, 2017, 182, 199-208. | 3.1 | 31 |
| 24 | A constraint model for beam flexure modules with an intermediate semi-rigid element. International Journal of Mechanical Sciences, 2017, 122, 167-183. | 3.6 | 20 |
| 25 | A frequency criterion for doubly clamped beam-type N/MEMS subjected to the van der Waals attraction. Applied Mathematical Modelling, 2017, 41, 650-666. | 2.2 | 14 |
| 26 | Vibration Suppression of MR Sandwich Beams Based On Fuzzy Logic. Conference Proceedings of the Society for Experimental Mechanics, 2017, , 227-238. | 0.3 | 0 |
| 27 | 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 |
| 28 | Deflection Control of Electrostatically Actuated Micro Cantilevers via Fuzzy Controller. , 2016, , . | | 3 |
| 29 | A Two-Level Adaptive Fuzzy Control Algorithm for Beyond Pull-In Stabilization of Electrostatically Actuated Microplates. , 2016, , . | | 1 |
| 30 | An optimal fuzzy controller stabilizing the rod and controlling the position of single wheeled inverted pendulums. , 2016, , . | | 3 |
| 31 | Nonlinear Coupled Transverse and Axial Vibration of Variable Cross-Section Beam Flexures Interconnecting Rigid Body. , 2016, , . | | 0 |
| 32 | Analytical modeling of large amplitude free vibration of non-uniform beams carrying a both transversely and axially eccentric tip mass. Journal of Sound and Vibration, 2016, 366, 211-229. | 2.1 | 36 |
| 33 | ANALYTICAL MODELING OF SQUEEZE FILM DAMPING IN DUAL AXIS TORSION MICROACTUATORS. Surface Review and Letters, 2015, 22, 1550006. | 0.5 | 8 |
| 34 | Entropy generation analysis of squeeze film air damping in torsional micromirrors. Optik, 2015, 126, 28-37. | 1.4 | 3 |
| 35 | Modeling Geometric Nonlinearities in the Free Vibration of a Planar Beam Flexure With a Tip Mass. Journal of Mechanical Design, Transactions of the ASME, 2014, 136, . | 1.7 | 23 |
| 36 | A coupled bending-torsion model for electrostatically actuated torsional nano/micro-actuators with considering influence of van der Waals force. Acta Mechanica, 2013, 224, 1791-1800. | 1.1 | 5 |

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|---|---------|-----|-----------|
| 37 | Analytical closed form model for static pull-in analysis in electrostatically actuated torsional micromirrors. Journal of Mechanical Science and Technology, 2013, 27, 1443-1449. | 0.7 | 11 |
| 38 | Analytical modeling of bending effect on the torsional response of electrostatically actuated micromirrors. Optik, 2013, 124, 1278-1286. | 1.4 | 22 |
| 39 | Modeling squeezed film air damping in torsional micromirrors using extended Kantorovich method. Meccanica, 2013, 48, 791-805. | 1.2 | 15 |
| 40 | ANALYTICAL MODELING OF THE EFFECTS OF ELECTROSTATIC ACTUATION AND CASIMIR FORCE ON THE PULL-IN INSTABILITY AND STATIC BEHAVIOR OF TORSIONAL NANO/MICRO ACTUATORS. International Journal of Modern Physics B, 2013, 27, 1350008. | 1.0 | 6 |
| 41 | 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 |
| 42 | Characterization of the static behavior of micromirrors under the effect of capillary force, an analytical approach. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2361-2372. | 1.1 | 10 |
| 43 | Nonlinear Analysis of Pull-In Voltage for a Fully Clamped Microplate With Movable Base. , 2012, , . | | 1 |
| 44 | Modeling Geometric Non-Linearities in the Free Vibration of a Planar Beam Flexure With a Tip Mass. , 2012, , . | | 0 |
| 45 | A Coupled Two Degree of Freedom Model for Nano/Micromirrors Under van der Waals Force. , 2012, , . | | 0 |
| 46 | Characterization of Static Behavior of Electrostatically Actuated Micro Tweezers Using Modified Couple Stress Theory. , 2012, , . | | 0 |
| 47 | Coupled Bending and Torsion Effects on the Squeezed Film Air Damping in Torsional Micromirrors. , 2012, , . | | 4 |
| 48 | 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 |
| 49 | Influence of Fringing Field Effect on the Pull-In of Size Dependent Micro-Beams. , 2012, , . | | 0 |
| 50 | Static behavior of nano/micromirrors under the effect of Casimir force, an analytical approach. Journal of Mechanical Science and Technology, 2012, 26, 537-543. | 0.7 | 25 |
| 51 | Analytical modeling of static behavior of electrostatically actuated nano/micromirrors considering van der Waals forces. Acta Mechanica Sinica/Lixue Xuebao, 2012, 28, 729-736. | 1.5 | 11 |
| 52 | The influence of vertical deflection of the supports in modeling squeeze film damping in torsional micromirrors. Microelectronics Journal, 2012, 43, 530-536. | 1.1 | 8 |
| 53 | A coupled two degree of freedom pull-in model for micromirrors under capillary force. Acta Mechanica, 2012, 223, 387-394. | 1.1 | 12 |
| 54 | 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 |

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| 55 | Modeling of Pull-In Instability of Nano/Micromirrors Under the Combined Effect of Capillary and Casimir Forces. International Journal of Optomechatronics, 2011, 5, 378-392. | 3.3 | 11 |
| 56 | NONLINEAR FREE VIBRATION OF SIMPLY SUPPORTED BEAMS CONSIDERING THE EFFECTS OF SHEAR DEFORMATION AND ROTARY INERTIA, A HOMOTOPY PERTURBATION APPROACH. International Journal of Modern Physics B, 2011, 25, 441-455. | 1.0 | 4 |
| 57 | A homotopy perturbation analysis of nonlinear free vibration of Timoshenko microbeams. Journal of Mechanical Science and Technology, 2011, 25, 557-565. | 0.7 | 46 |
| 58 | Analytical Modeling of Squeeze Film Damping in Micromirrors. , 2011, , . | | 2 |
| 59 | Beyond Pull-In Stabilization of Dual Axis Micromirrors Using Fuzzy Controllers. , 2010, , . | | 1 |
| 60 | Nonlinear Vibration and Buckling Analysis of Beams Using Homotopy Perturbation Method. , 2010, , . | | 0 |
| 61 | A NEW EFFICIENT APPROACH FOR MODELING AND SIMULATION OF NANO-SWITCHES UNDER THE COMBINED EFFECTS OF INTERMOLECULAR SURFACE FORCES AND ELECTROSTATIC ACTUATION. International Journal of Applied Mechanics, 2009, 01, 349-365. | 1.3 | 28 |
| 62 | Analytical Solutions for the Static Instability of Nano-Switches Under the Effect of Casimir Force and Electrostatic Actuation. , 2009, , . | | 3 |
| 63 | Investigation of Casimir and Van der Waals Forces for a Nonlinear Double-Clamped Beam Using Homotopy Perturbation Method. , 2009, , . | | 0 |
| 64 | Application of the Extended Kantorovich Method to the Vibrational Analysis of Electrically Actuated Microplates. , 2009, , . | | 3 |
| 65 | Nonlinear dynamic modeling of surface defects in rolling element bearing systems. Journal of Sound and Vibration, 2009, 319, 1150-1174. | 2.1 | 172 |
| 66 | Application of the Extended Kantorovich Method to the Static Deflection of Electrically Actuated Microplates. , 2008, , . | | 2 |