# G Rezazadeh; Gh Rezazadeh

List of Publications by Year
in descending order



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|---|---|---|---|
| 261 papers | 5,669 citations | 70961 41 h-index | 138251 58 g-index |
| 277 all docs | 277 docs citations | 277 times ranked | 2800 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Application of piezoelectric layers in electrostatic MEM actuators: controlling of pull-in voltage. Microsystem Technologies, 2006, 12, 1163-1170. | 1.2 | 163 |
| 2 | Automated diagnosis of coronary artery disease (CAD) patients using optimized SVM. Computer Methods and Programs in Biomedicine, 2017, 138, 117-126. | 2.6 | 128 |
| 3 | Application of the Generalized Differential Quadrature Method to the Study of Pull-In Phenomena of MEMS Switches. Journal of Microelectromechanical Systems, 2007, 16, 1334-1340. | 1.7 | 127 |
| 4 | Application and comparison of an ANN-based feature selection method and the genetic algorithm in gearbox fault diagnosis. Expert Systems With Applications, 2011, 38, 10205-10209. | 4.4 | 120 |
| 5 | Vibration control of a pipe conveying fluid under external periodic excitation using a nonlinear energy sink. Nonlinear Dynamics, 2016, 86, 1761-1795. | 2.7 | 116 |
| 6 | Vibration control of a nonlinear beam with a nonlinear energy sink. Nonlinear Dynamics, 2016, 83, 1-22. | 2.7 | 109 |
| 7 | Nonlinear vibration control and energy harvesting of a beam using a nonlinear energy sink and a piezoelectric device. Journal of Sound and Vibration, 2014, 333, 4444-4457. | 2.1 | 101 |
| 8 | Thermoelastic damping in a micro-beam resonator using modified couple stress theory. Acta Mechanica, 2012, 223, 1137-1152. | 1.1 | 95 |
| 9 | INTRODUCTION OF MODIFIED COMPARISON FUNCTIONS FOR VIBRATION ANALYSIS OF A RECTANGULAR CRACKED PLATE. Journal of Sound and Vibration, 2000, 236, 245-258. | 2.1 | 94 |
| 10 | Nonlinear vibration control of a cantilever beam by a nonlinear energy sink. Mechanism and Machine Theory, 2012, 50, 134-149. | 2.7 | 88 |
| 11 | On the mechanical behavior of a functionally graded micro-beam subjected to a thermal moment and nonlinear electrostatic pressure. Composite Structures, 2011, 93, 1516-1525. | 3.1 | 76 |
| 12 | Free vibrations analysis of a rotating shaft with nonlinearities in curvature and inertia. Mechanism and Machine Theory, 2009, 44, 272-288. | 2.7 | 75 |
| 13 | Effect of temperature on pull-in voltage and natural frequency of an electrostatically actuated microplate. Mechatronics, 2010, 20, 666-673. | 2.0 | 71 |
| 14 | Vibration attenuation of a continuous rotor-blisk-journal bearing system employing smooth nonlinear energy sinks. Mechanical Systems and Signal Processing, 2017, 84, 128-157. | 4.4 | 70 |
| 15 | Broadband energy harvesting using nonlinear vibrations of a magnetopiezoelastic cantilever beam. International Journal of Engineering Science, 2017, 111, 113-133. | 2.7 | 68 |
| 16 | Grape Drying: A Review. Food Reviews International, 2007, 23, 257-280. | 4.3 | 66 |
| 17 | An experimental investigation of nonlinear vibration and frequency response analysis of cantilever viscoelastic beams. Journal of Sound and Vibration, 2008, 311, 1409-1419. | 2.1 | 66 |
| 18 | Modelling the Size Effects on the Mechanical Properties of Micro/Nano Structures. Sensors, 2015, 15, 28543-28562. | 2.1 | 66 |

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|---|---|---|---|
| 19 | Nonlinear vibration analysis of an axially moving drillstring system with time dependent axial load and axial velocity in inclined well. Mechanism and Machine Theory, 2011, 46, 743-760. | 2.7 | 64 |
| 20 | Effects of axial and residual stresses on thermoelastic damping in capacitive micro-beam resonators. Journal of the Franklin Institute, 2011, 348, 622-639. | 1.9 | 57 |
| 21 | Rotary inertia and temperature effects on non-linear vibration, steady-state response and stability of an axially moving beam with time-dependent velocity. International Journal of Mechanical Sciences, 2008, 50, 389-404. | 3.6 | 55 |
| 22 | Dynamic characteristics and forced response of an electrostatically-actuated microbeam subjected to fluid loading. Microsystem Technologies, 2009, 15, 1355-1363. | 1.2 | 55 |
| 23 | Stability analysis of a capacitive fgm micro-beam using modified couple stress theory. Acta Mechanica Solida Sinica, 2013, 26, 427-440. | 1.0 | 54 |
| 24 | Mechanical behavior of a circular micro plate subjected to uniform hydrostatic and non-uniform electrostatic pressure. Microsystem Technologies, 2007, 14, 235-240. | 1.2 | 52 |
| 25 | Primary and parametric resonances of asymmetrical rotating shafts with stretching nonlinearity. Mechanism and Machine Theory, 2012, 51, 131-144. | 2.7 | 52 |
| 26 | On the size-dependent behavior of a capacitive circular micro-plate considering the variable length-scale parameter. International Journal of Mechanical Sciences, 2013, 77, 333-342. | 3.6 | 51 |
| 27 | Early fault detection of rotating machinery through chaotic vibration feature extraction of experimental data sets. Chaos, Solitons and Fractals, 2015, 78, 61-75. | 2.5 | 51 |
| 28 | Broadband and tunable PZT energy harvesting utilizing local nonlinearity and tip mass effects. International Journal of Engineering Science, 2017, 118, 1-15. | 2.7 | 51 |
| 29 | AN ANALYTICAL APPROACH FOR OBTAINING THE LOCATION AND DEPTH OF AN ALL-OVER PART-THROUGH CRACK ON EXTERNALLY IN-PLANE LOADED RECTANGULAR PLATE USING VIBRATION ANALYSIS. Journal of Sound and Vibration, 2000, 230, 291-308. | 2.1 | 50 |
| 30 | Stick-slip oscillations of drag bits by considering damping of drilling mud and active damping system. Journal of Petroleum Science and Engineering, 2007, 59, 289-299. | 2.1 | 50 |
| 31 | Investigation of the torsion and bending effects on static stability of electrostatic torsional micromirrors. Microsystem Technologies, 2007, 13, 715-722. | 1.2 | 50 |
| 32 | Tuning the primary resonances of a micro resonator, using piezoelectric actuation. Nonlinear Dynamics, 2014, 76, 839-852. | 2.7 | 50 |
| 33 | Primary resonances of a nonlinear in-extensional rotating shaft. Mechanism and Machine Theory, 2010, 45, 1067-1081. | 2.7 | 49 |
| 34 | On the stability of a microbeam conveying fluid considering modified couple stress theory. International Journal of Mechanics and Materials in Design, 2011, 7, 327-342. | 1.7 | 49 |
| 35 | Static and dynamic stability modeling of a capacitive FGM micro-beam in presence of temperature changes. Applied Mathematical Modelling, 2013, 37, 6964-6978. | 2.2 | 49 |
| 36 | A comprehensive study of stability in an electro-statically actuated micro-beam. International Journal of Non-Linear Mechanics, 2013, 48, 78-85. | 1.4 | 48 |

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| 37 | Pull-in analysis of an electrostatically actuated nano-cantilever beam with nonlinearity in curvature and inertia. International Journal of Mechanical Sciences, 2011, 53, 108-115. | 3.6 | 47 |
| 38 | Nonlinear vibration and stability analysis of axially loaded embedded carbon nanotubes conveying fluid. Journal Physics D: Applied Physics, 2009, 42, 135112. | 1.3 | 45 |
| 39 | Non-linear free vibrations of Kelvinâ€“Voigt visco-elastic beams. International Journal of Mechanical Sciences, 2007, 49, 722-732. | 3.6 | 44 |
| 40 | Nonlinear vibration and stability analysis of a double-walled carbon nanotube under electrostatic actuation. Journal of Sound and Vibration, 2012, 331, 2443-2456. | 2.1 | 44 |
| 41 | Vibration attenuation of a rotor supported by journal bearings with nonlinear suspensions under mass eccentricity force using nonlinear energy sink. Meccanica, 2015, 50, 2441-2460. | 1.2 | 43 |
| 42 | Coupled vibration of a cantilever micro-beam submerged in a bounded incompressible fluid domain. Acta Mechanica, 2013, 224, 841-850. | 1.1 | 41 |
| 43 | Vibration and instability of fluid-conveyed smart micro-tubes based on magneto-electro-elasticity beam model. Microfluidics and Nanofluidics, 2016, 20, 1. | 1.0 | 40 |
| 44 | Static and dynamic stabilities of a microbeam actuated by a piezoelectric voltage. Microsystem Technologies, 2009, 15, 1785-1791. | 1.2 | 39 |
| 45 | Comparison of generalized differential quadrature and Galerkin methods for the analysis of micro-electro-mechanical coupled systems. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 2807-2816. | 1.7 | 39 |
| 46 | Study of parametric oscillation of an electrostatically actuated microbeam using variational iteration method. Applied Mathematical Modelling, 2012, 36, 430-443. | 2.2 | 38 |
| 47 | A new performance evaluation scheme for jet engine vibration signal denoising. Mechanical Systems and Signal Processing, 2016, 76-77, 201-212. | 4.4 | 38 |
| 48 | Power enhancement of broadband piezoelectric energy harvesting using a proof mass and nonlinearities in curvature and inertia. International Journal of Mechanical Sciences, 2017, 133, 227-239. | 3.6 | 37 |
| 49 | Improving one class support vector machine novelty detection scheme using nonlinear features. Pattern Recognition, 2018, 83, 14-33. | 5.1 | 37 |
| 50 | Vibration and reliability of a rotating beam with random properties under random excitation. International Journal of Mechanical Sciences, 2007, 49, 1377-1388. | 3.6 | 36 |
| 51 | Micro-inertia effects on the dynamic characteristics of micro-beams considering the couple stress theory. Mechanics Research Communications, 2014, 60, 74-80. | 1.0 | 36 |
| 52 | Dynamic response of a torsional micromirror to electrostatic force and mechanical shock. Microsystem Technologies, 2009, 15, 535-545. | 1.2 | 35 |
| 53 | Vibration control of a rotor supported by journal bearings and an asymmetric high-static low-dynamic stiffness suspension. Nonlinear Dynamics, 2016, 85, 525-545. | 2.7 | 35 |
| 54 | Vibration mitigation of a rotating beam under external periodic force using a nonlinear energy sink (NES). JVC/Journal of Vibration and Control, 2017, 23, 1001-1025. | 1.5 | 35 |

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| 55 | Modeling and analysis of the vibration behavior of a shape memory alloy beam. International Journal of Mechanical Sciences, 2006, 48, 44-52. | 3.6 | 34 |
| 56 | Effect of thermal stresses on stability and frequency response of a capacitive microphone. Microelectronics Journal, 2010, 41, 865-873. | 1.1 | 34 |
| 57 | Pure parametric excitation of a micro cantilever beam actuated by piezoelectric layers. Applied Mathematical Modelling, 2010, 34, 4196-4207. | 2.2 | 33 |
| 58 | Stabilizing the pull-in instability of an electro-statically actuated micro-beam using piezoelectric actuation. Applied Mathematical Modelling, 2011, 35, 4796-4815. | 2.2 | 33 |
| 59 | Analysis of thermoelastic damping in microresonators by considering the stretching effect. International Journal of Mechanical Sciences, 2010, 52, 1366-1375. | 3.6 | 32 |
| 60 | Nonlinear analysis of thermoelastic damping in axisymmetric vibration of micro circular thin-plate resonators. Applied Mathematical Modelling, 2012, 36, 5991-6000. | 2.2 | 32 |
| 61 | Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam. Nonlinear Dynamics, 2013, 73, 853-867. | 2.7 | 31 |
| 62 | Analytical study of mutual inductance of hexagonal and octagonal spiral planer coils. Sensors and Actuators A: Physical, 2016, 247, 53-64. | 2.0 | 31 |
| 63 | Thermoelastic damping in a micro-beam resonator tunable with piezoelectric layers. Acta Mechanica Solida Sinica, 2012, 25, 73-81. | 1.0 | 30 |
| 64 | Two-mode combination resonances of an in-extensional rotating shaft with large amplitude. Nonlinear Dynamics, 2011, 65, 217-233. | 2.7 | 29 |
| 65 | Free vibration analysis of a nonlinear slender rotating shaft with simply support conditions. Mechanism and Machine Theory, 2014, 82, 128-140. | 2.7 | 29 |
| 66 | Theoretical development and closed-form solution of nonlinear vibrations of a directly excited nanotube-reinforced composite cantilevered beam. Archive of Applied Mechanics, 2006, 75, 153-163. | 1.2 | 27 |
| 67 | On the modeling of a piezoelectrically actuated microsensor for simultaneous measurement of fluids viscosity and density. Measurement: Journal of the International Measurement Confederation, 2010, 43, 1516-1524. | 2.5 | 27 |
| 68 | Pull-in Voltage of Electrostatically-Actuated Microbeams in Terms of Lumped Model Pull-in Voltage Using Novel Design Corrective Coefficients. Sensing and Imaging, 2011, 12, 117-131. | 1.0 | 27 |
| 69 | Development of vibration signature analysis using multiwavelet systems. Journal of Sound and Vibration, 2003, 261, 613-633. | 2.1 | 26 |
| 70 | Nonlinear behaviour of electrostatically actuated carbon nanotube-based devices. Journal Physics D: Applied Physics, 2010, 43, 315301. | 1.3 | 26 |
| 71 | Mechanical behavior of a FGM micro-beam subjected to a nonlinear electrostatic pressure. International Journal of Mechanics and Materials in Design, 2012, 8, 381-392. | 1.7 | 26 |
| 72 | Design and performance analysis of a nanogyroscope based on electrostatic actuation and capacitive sensing. Journal of Sound and Vibration, 2013, 332, 6155-6168. | 2.1 | 26 |

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| 73 | Vibration control of a continuous rotating shaft employing high-static low-dynamic stiffness isolators. JVC/Journal of Vibration and Control, 2018, 24, 760-783. | 1.5 | 26 |
| 74 | Analytical development of dynamic equations of motion for a three-dimensional flexible link manipulator with revolute and prismatic joints. IEEE Transactions on Systems, Man, and Cybernetics, 2003, 33, 237-249. | 5.5 | 25 |
| 75 | The effect of a piezoelectric layer on the mechanical behavior of an electrostatic actuated microbeam. Smart Materials and Structures, 2008, 17, 065024. | 1.8 | 25 |
| 76 | Combination resonances in a rotating shaft. Mechanism and Machine Theory, 2009, 44, 1535-1547. | 2.7 | 25 |
| 77 | Nonlinear behavior of a nano-scale beam considering length scale-parameter. Applied Mathematical Modelling, 2014, 38, 1881-1895. | 2.2 | 25 |
| 78 | A nonlocal shell theory model for evaluation of thermoelastic damping in the vibration of a double-walled carbon nanotube. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 57, 6-11. | 1.3 | 25 |
| 79 | Experimental and numerical investigation of rotational friction dampers with multi units in steel frames subjected to lateral excitation. Archives of Civil and Mechanical Engineering, 2015, 15, 479-491. | 1.9 | 25 |
| 80 | A comprehensive study on the free vibration of machine toolsâ€™ hexapod table. International Journal of Advanced Manufacturing Technology, 2009, 40, 1239-1251. | 1.5 | 24 |
| 81 | Stability analysis of a parametrically excited functionally graded piezoelectric, MEM system. Current Applied Physics, 2012, 12, 456-466. | 1.1 | 24 |
| 82 | Annihilation of high-amplitude periodic responses of a forced two degrees-of-freedom oscillatory system using nonlinear energy sink. JVC/Journal of Vibration and Control, 2013, 19, 2401-2412. | 1.5 | 24 |
| 83 | Mutual inductance calculation between two coaxial planar spiral coils with an arbitrary number of sides. Microelectronics Journal, 2019, 85, 98-108. | 1.1 | 24 |
| 84 | Influence of dipping on thin-layer drying characteristics of seedless grapes. Biosystems Engineering, 2007, 98, 411-421. | 1.9 | 23 |
| 85 | On the stability of a functionally graded rectangular micro-plate subjected to hydrostatic and nonlinear electrostatic pressures. Acta Mechanica Solida Sinica, 2013, 26, 205-220. | 1.0 | 23 |
| 86 | Stability analysis of a piezoelectrically actuated micro-pipe conveying fluid. Microfluidics and Nanofluidics, 2015, 19, 577-584. | 1.0 | 23 |
| 87 | Thermo-elastic damping in a functionally graded piezoelectric micro-resonator. International Journal of Mechanics and Materials in Design, 2015, 11, 357-369. | 1.7 | 23 |
| 88 | Non-linear vibration and stability analysis of a partially supported conveyor belt by a distributed viscoelastic foundation. Structural Engineering and Mechanics, 2007, 27, 17-32. | 1.0 | 22 |
| 89 | On the modeling of a capacitive angular speed measurement sensor. Measurement: Journal of the International Measurement Confederation, 2013, 46, 3976-3981. | 2.5 | 21 |
| 90 | Dynamic stability and nonlinear vibration analysis of a rotor system with flexible/rigid blades. Mechanism and Machine Theory, 2016, 105, 633-653. | 2.7 | 21 |

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| 91 | Closed form solution for displacements of thick cylinders with varying thickness subjected to non-uniform internal pressure. Structural Engineering and Mechanics, 2003, 16, 731-748. | 1.0 | 21 |
| 92 | Stability analysis of a nonlinear rotating asymmetrical shaft near the resonances. Nonlinear Dynamics, 2012, 70, 1311-1325. | 2.7 | 20 |
| 93 | Parametric excitation of a piezoelectrically actuated system near Hopf bifurcation. Applied Mathematical Modelling, 2012, 36, 1529-1549. | 2.2 | 20 |
| 94 | On a MEMS based dynamic remote temperature sensor using transverse vibration of a bi-layer micro-cantilever. Measurement: Journal of the International Measurement Confederation, 2012, 45, 580-589. | 2.5 | 20 |
| 95 | Effect of mass diffusion on the damping ratio in a functionally graded micro-beam. Composite Structures, 2013, 106, 15-29. | 3.1 | 20 |
| 96 | Parametric resonances of an electrically actuated piezoelectric nanobeam resonator considering surface effects and intermolecular interactions. Nonlinear Dynamics, 2016, 84, 1943-1960. | 2.7 | 20 |
| 97 | MECHANICAL BEHAVIOR OF A BI-LAYER CANTILEVER MICRO-BEAM SUBJECTED TO ELECTROSTATIC FORCE, MECHANICAL SHOCK AND THERMAL MOMENT. International Journal of Applied Mechanics, 2011, 03, 543-561. | 1.3 | 19 |
| 98 | Nonlinear vibration analysis of a spinning shaft with multi-disks. Meccanica, 2015, 50, 2293-2307. | 1.2 | 19 |
| 99 | Design and performance analysis of a nonlinear energy sink attached to a beam with different support conditions. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2016, 230, 527-542. | 1.1 | 19 |
| 100 | Nonlinear vibrations of micro-doubly curved shallow shells based on the modified couple stress theory. Nonlinear Dynamics, 2017, 87, 2051-2065. | 2.7 | 19 |
| 101 | Analysis of non-linear vibrations of a microresonator under piezoelectric and electrostatic actuations. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2009, 223, 329-344. | 1.1 | 18 |
| 102 | Nonlinear vibration of an electrically actuated microresonator tuned by combined DC piezoelectric and electric actuations. Smart Materials and Structures, 2010, 19, 015012. | 1.8 | 18 |
| 103 | Bifurcation analysis of an electro-statically actuated micro-beam in the presence of centrifugal forces. International Journal of Non-Linear Mechanics, 2014, 67, 7-15. | 1.4 | 18 |
| 104 | On the mechanical behavior of a wide tunable capacitive MEMS resonator for low frequency energy harvesting applications. Microsystem Technologies, 2020, 26, 2389-2398. | 1.2 | 18 |
| 105 | A comprehensive model to study nonlinear behavior of multilayered micro beam switches. Microsystem Technologies, 2007, 14, 135-141. | 1.2 | 17 |
| 106 | Axisymmetric Stress Analysis of a Thick Conical Shell with Varying Thickness under Nonuniform Internal Pressure. Journal of Engineering Mechanics - ASCE, 2008, 134, 601-610. | 1.6 | 17 |
| 107 | Hopf bifurcation analysis of asymmetrical rotating shafts. Nonlinear Dynamics, 2014, 77, 1141-1155. | 2.7 | 17 |
| 108 | Nonlinear behavior of capacitive micro-beams based on strain gradient theory. Journal of Mechanical Science and Technology, 2014, 28, 1141-1151. | 0.7 | 17 |

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| 109 | Analysis of bias DC voltage effect on thermoelastic damping ratio in short nano-beam resonators based on nonlocal elasticity theory and dual-phase-lagging heat conduction model. Meccanica, 2015, 50, 2963-2976. | 1.2 | 17 |
| 110 | Internal, combinational and sub-harmonic resonances of a nonlinear asymmetrical rotating shaft. Nonlinear Dynamics, 2015, 79, 173-184. | 2.7 | 17 |
| 111 | Nonlinear analysis of electrostatically actuated diaphragm-type micropumps. Nonlinear Dynamics, 2016, 83, 951-961. | 2.7 | 17 |
| 112 | On the tunability of a MEMS based variable capacitor with a novel structure. Microsystem Technologies, 2011, 17, 1447-1452. | 1.2 | 16 |
| 113 | Performance evaluation of a novel rotational damper for structural reinforcement steel frames subjected to lateral excitations. Earthquake Engineering and Engineering Vibration, 2014, 13, 75-84. | 1.1 | 16 |
| 114 | Free vibration analysis of rotating beams with random properties. Structural Engineering and Mechanics, 2005, 20, 293-312. | 1.0 | 16 |
| 115 | Analytical solution for primary resonances of a rotating shaft with stretching non-linearity. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 1655-1664. | 1.1 | 15 |
| 116 | Design and implementation of an automatic conditionâ€monitoring expert system for ballâ€bearing fault detection. Industrial Lubrication and Tribology, 2008, 60, 93-100. | 0.6 | 15 |
| 117 | Self-excited oscillations attenuation of drill-string system using nonlinear energy sink. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2013, 227, 230-245. | 1.1 | 15 |
| 118 | Resonances of an in-extensional asymmetrical spinning shaft with speed fluctuations. Meccanica, 2013, 48, 103-120. | 1.2 | 15 |
| 119 | THERMALLY INDUCED VIBRATION OF A FUNCTIONALLY GRADED MICRO-BEAM SUBJECTED TO A MOVING LASER BEAM. International Journal of Applied Mechanics, 2014, 06, 1450066. | 1.3 | 15 |
| 120 | NEMS thermal switch operating based on thermal expansion of carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 59, 210-217. | 1.3 | 15 |
| 121 | Design Optimization of a Double-Stage Resolver. IEEE Transactions on Vehicular Technology, 2019, 68, 5407-5415. | 3.9 | 15 |
| 122 | Study of mechanical behavior of circular FGM micro-plates under nonlinear electrostatic and mechanical shock loadings. Acta Mechanica, 2012, 223, 579-591. | 1.1 | 14 |
| 123 | Design and simulation of a carbon nanotube-based adjustable nano-electromechanical shock switch. Applied Mathematical Modelling, 2012, 36, 2329-2339. | 2.2 | 14 |
| 124 | Dynamic Response of an Electrostatically Actuated Micro-Beam in an Incompressible Viscous Fluid Cavity. Journal of Microelectromechanical Systems, 2014, 23, 555-562. | 1.7 | 14 |
| 125 | Development of a capacitive angular velocity sensor for the alarm and trip applications. Measurement: Journal of the International Measurement Confederation, 2015, 63, 282-286. | 2.5 | 14 |
| 126 | Studying thin film damping in a micro-beam resonator based on non-classical theories. Acta Mechanica Sinica/Lixue Xuebao, 2016, 32, 369-379. | 1.5 | 14 |

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|---|---|---|---|
| 127 | Nonlinear electrostatic behavior for two elastic parallel fixedâ€“fixed and cantilever microbeams. Mechatronics, 2009, 19, 840-846. | 2.0 | 13 |
| 128 | Stability Analysis and Transient Response of Electrostatically Actuated Microbeam Interacting With Bounded Compressible Fluids. Journal of Applied Mechanics, Transactions ASME, 2013, 80, . | 1.1 | 13 |
| 129 | Gap Dependent Bifurcation Behavior of a Nano-Beam Subjected to a Nonlinear Electrostatic Pressure. Latin American Journal of Solids and Structures, 2014, 11, 2426-2443. | 0.6 | 13 |
| 130 | An innovative piezoelectric energy harvester using clampedâ€“clamped beam with proof mass for WSN applications. Microsystem Technologies, 2020, 26, 3203-3211. | 1.2 | 13 |
| 131 | Modeling of the Seedless Grape Drying Process using the Generalized Differential Quadrature Method. Chemical Engineering and Technology, 2007, 30, 168-175. | 0.9 | 12 |
| 132 | Nonlinear vibrations and chaos in electrostatic torsional actuators. Nonlinear Analysis: Real World Applications, 2011, 12, 3572-3584. | 0.9 | 12 |
| 133 | Dynamic analysis of an electrostatically actuated circular micro-plate interacting with compressible fluid. Acta Mechanica, 2013, 224, 2025-2035. | 1.1 | 12 |
| 134 | Effect of mass diffusion on the damping ratio in micro-beam resonators. International Journal of Solids and Structures, 2014, 51, 3147-3155. | 1.3 | 12 |
| 135 | Stability and Bifurcation Analysis of an Asymmetrically Electrostatically Actuated Microbeam. Journal of Computational and Nonlinear Dynamics, 2015, 10, . | 0.7 | 12 |
| 136 | On the modeling of a piezoellectrically actuated micro-sensor for measurement of microscale fluid physical properties. Applied Physics A: Materials Science and Processing, 2015, 121, 651-663. | 1.1 | 12 |
| 137 | Effects of the Length Scale Parameter on the Thermoelastic Damping of a Microbeam Considering the Couple Stress Theory. International Journal of Applied Mechanics, 2016, 08, 1650083. | 1.3 | 12 |
| 138 | A non-local fractional stressâ€“strain gradient theory. International Journal of Mechanics and Materials in Design, 2020, 16, 265-278. | 1.7 | 12 |
| 139 | The Influence of Stress Gradient on the Pull-in Phenomena of Microelectromechanical Switches. Journal of Physics: Conference Series, 2006, 34, 1117-1122. | 0.3 | 11 |
| 140 | On the modeling of a MEMS-based capacitive wall shear stress sensor. Measurement: Journal of the International Measurement Confederation, 2009, 42, 202-207. | 2.5 | 11 |
| 141 | Thermoelastic damping of a double-walled carbon nanotube under electrostatic force. Micro and Nano Letters, 2011, 6, 698. | 0.6 | 11 |
| 142 | Improving response of a MEMS capacitive microphone filtering shock noise. Microelectronics Journal, 2011, 42, 614-621. | 1.1 | 11 |
| 143 | Study of squeeze film damping in a micro-beam resonator based on micro-polar theory. Latin American Journal of Solids and Structures, 2015, 12, 77-91. | 0.6 | 11 |
| 144 | Coupled vibrations of a magneto-electro-elastic micro-diaphragm in micro-pumps. Microfluidics and Nanofluidics, 2016, 20, 1. | 1.0 | 11 |

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| 145 | Dielectric Elastomer as a New Material for Electrostatically Actuated Microbeams: Stability Analysis. International Journal of Applied Mechanics, 2019, 11, 1950098. | 1.3 | 11 |
| 146 | A liquid-state high sensitive accelerometer based on a micro-scale liquid marble. Microsystem Technologies, 2020, 26, 617-623. | 1.2 | 11 |
| 147 | An experimental study for characterization of size-dependence in microstructures via electrostatic pull-in instability technique. Applied Physics Letters, 2020, 116, . | 1.5 | 11 |
| 148 | A MEMS-based methodology for measurement of effective density and viscosity of nanofluids. European Journal of Mechanics, B/Fluids, 2021, 86, 67-77. | 1.2 | 11 |
| 149 | A global cartesian space obstacle avoidance scheme for redundant manipulators. Optimal Control Applications and Methods, 1991, 12, 279-286. | 1.3 | 10 |
| 150 | Electromechanical Behavior of Microbeams with Piezoelectric and Electrostatic Actuation. Sensing and Imaging, 2009, 10, 15-30. | 1.0 | 10 |
| 151 | A new MEMS based variable capacitor with wide tunability, high linearity and low actuation voltage. Microelectronics Journal, 2015, 46, 191-197. | 1.1 | 10 |
| 152 | A small size Ka band six-bit DMTL phase shifter using new design of MEMS switch. Microsystem Technologies, 2017, 23, 1853-1866. | 1.2 | 10 |
| 153 | Study on the size dependent effective Young modulus by EPI method based on modified couple stress theory. Microsystem Technologies, 2018, 24, 2983-2989. | 1.2 | 10 |
| 154 | Stability analysis of a capacitive micro-resonator with embedded pre-strained SMA wires. International Journal of Mechanics and Materials in Design, 2019, 15, 681-693. | 1.7 | 10 |
| 155 | Free vibration of membrane/bounded incompressible fluid. Applied Mathematics and Mechanics (English Edition), 2012, 33, 1167-1178. | 1.9 | 9 |
| 156 | DESIGN, SIMULATION AND BIFURCATION ANALYSIS OF A NOVEL MICROMACHINED TUNABLE CAPACITOR WITH EXTENDED TUNABILITY. Transactions of the Canadian Society for Mechanical Engineering, 2014, 38, 15-29. | 0.3 | 9 |
| 157 | Nonlinear Vibrations of an Electrostatically Actuated Microresonator in an Incompressible Fluid Cavity Based on the Modified Couple Stress Theory. Journal of Computational and Nonlinear Dynamics, 2016, 11, . | 0.7 | 9 |
| 158 | Parametric Thermally Induced Vibration of an Electrostatically Deflected FGM Micro-Beam. International Journal of Applied Mechanics, 2016, 08, 1650092. | 1.3 | 9 |
| 159 | Study of micropolar fluid flow inside a magnetohydrodynamic micropump. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 4955-4963. | 0.8 | 9 |
| 160 | On the Mathematical Modeling of a MEMS-Based Sensor for Simultaneous Measurement of Fluids Viscosity and Density. Sensing and Imaging, 2018, 19, 1. | 1.0 | 9 |
| 161 | Enhancement of the reliability of MEMS shock sensors by adopting a dual-mass model. Measurement: Journal of the International Measurement Confederation, 2020, 153, 107428. | 2.5 | 9 |
| 162 | NON-LINEAR FREE VIBRATION ANALYSIS OF A STRING UNDER BENDING MOMENT EFFECTS USING THE PERTURBATION METHOD. Journal of Sound and Vibration, 2002, 254, 677-691. | 2.1 | 8 |

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| 163 | Nonlinear Vibrations of a Carbon Nanotube Resonator Under Electrical and van der Waals Forces. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1527-1534. | 0.4 | 8 |
| 164 | Thermo-elastic Damping in Nano-beam Resonators Based on Nonlocal Theory. International Journal of Engineering, Transactions B: Applications, 2012, 26, . | 0.6 | 8 |
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