Mohammad Younis

List of Publications by Year
in descending order

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201 papers	5,803 citations	101384 36 h-index	88477 70 g-index
205 all docs	205 docs citations	205 times ranked	2054 citing authors

#	Article	IF	Citations
1	Multi-Threshold Inertial Switch With Acceleration Direction Detection Capability. IEEE Transactions on Industrial Electronics, 2023, 70, 4226-4235.	5.2	7
2	Design, modeling, and testing of a bidirectional multi-threshold MEMS inertial switch. Sensors and Actuators A: Physical, 2022, 334, 113219.	2.0	9
3	Crossover/Veering in V-Shaped MEMS Resonators. Journal of Microelectromechanical Systems, 2022, 31, 74-86.	1.7	8
4	Nonparametric Identification of a Nonlinear MEMS Resonator. , 2022, , 405-415.		1
5	Selective multiple analyte detection using multi-mode excitation of a MEMS resonator. Scientific Reports, 2022, 12, 5297.	1.6	12
6	Parametric resonance of bi-directional axial loads shallow arch microresonators. Journal of Micromechanics and Microengineering, 2022, 32, 054004.	1.5	0
7	RF MEMS electrostatically actuated tunable capacitors and their applications: a review. Journal of Micromechanics and Microengineering, 2022, 32, 013002.	1.5	16
8	Recent advances on MEMS based Infrared Thermopile detectors. Microsystem Technologies, 2022, 28, 1751-1764.	1.2	7
9	Nonlinear mode saturation in a U-shaped micro-resonator. Scientific Reports, 2022, 12, .	1.6	4
10	Simultaneous gas and magnetic sensing using a single heated micro-resonator. Sensors and Actuators A: Physical, 2022, 344, 113688.	2.0	5
11	Multi-Threshold Inertial Switch for Quantitative Acceleration Measurements. IEEE Sensors Journal, 2021, 21, 23849-23859.	2.4	14
12	Internal resonance in the higher-order modes of a MEMS beam: experiments and global analysis. Nonlinear Dynamics, 2021, 103, 2197-2226.	2.7	11
13	A Wideband Magnetic Frequency Upâ€Converter Energy Harvester. Advanced Engineering Materials, 2021, 23, 2001364.	1.6	6
14	Resonator-Based Bidirectional Lorentz Force Magnetic Sensor. IEEE Electron Device Letters, 2021, 42, 406-409.	2.2	11
15	Two-to-one internal resonance in the higher-order modes of a MEMS beam: Experimental investigation and theoretical analysis via local stability theory. International Journal of Non-Linear Mechanics, 2021, 129, 103664.	1.4	18
16	Chemical Gas Sensors: Recent Developments, Challenges, and the Potential of Machine Learningâ€"A Review. Sensors, 2021, 21, 2877.	2.1	94
17	Experimental and theoretical investigation of the 2:1 internal resonance in the higher-order modes of a MEMS microbeam at elevated excitations. Journal of Sound and Vibration, 2021, 499, 115983.	2.1	13
18	Static and dynamic actuations of clamped-clamped V-shaped micro-resonators under electrostatic forces. Mechanical Systems and Signal Processing, 2021, 155, 107571.	4.4	11

#	Article	IF	Citations
19	Highly Sensitive Resonant Magnetic Sensor Based on the Veering Phenomenon. IEEE Sensors Journal, 2021, 21, 13165-13175.	2.4	8
20	Multi-Threshold MEMS Shock Sensor for Quantitative Acceleration Measerements. , 2021, , .		0
21	Statics and Dynamics of V-Shaped Microbeams Under Axial Forces. Journal of Computational and Nonlinear Dynamics, 2021, 16, .	0.7	2
22	Static and Dynamic Analysis of Electrostatically Actuated MEMS Shallow Arches for Various Air-Gap Configurations. Micromachines, 2021, 12, 930.	1.4	6
23	Nonparametric identification of a micro-electromechanical resonator. Mechanical Systems and Signal Processing, 2021, 161, 107932.	4.4	3
24	Analytical and experimental study of the dynamics of a micro-electromechanical resonator based digital-to-analog converter. Journal of Micromechanics and Microengineering, 2021, 31, 125010.	1.5	2
25	Highly sensitive low field Lorentz-force MEMS magnetometer. Scientific Reports, 2021, 11, 21634.	1.6	5
26	Theoretical and experimental investigations of the crossover phenomenon in micromachined arch resonator: part IIâ€"simultaneous 1:1 and 2:1 internal resonances. Nonlinear Dynamics, 2020, 99, 407-432.	2.7	32
27	Theoretical and experimental investigations of the crossover phenomenon in micromachined arch resonator: part Iâ€"linear problem. Nonlinear Dynamics, 2020, 99, 393-405.	2.7	25
28	Linear and nonlinear dynamics of micro and nano-resonators: Review of recent advances. International Journal of Non-Linear Mechanics, 2020, 119, 103328.	1.4	97
29	Multifrequency excitation of an inclined marine riser under internal resonances. Nonlinear Dynamics, 2020, 99, 149-171.	2.7	11
30	A Resonant Gas Sensor Based on Multimode Excitation of a Buckled Microbeam. IEEE Sensors Journal, 2020, 20, 1778-1785.	2.4	31
31	Resonator-based M/NEMS logic devices: Review of recent advances. Sensors and Actuators A: Physical, 2020, 302, 111821.	2.0	26
32	Toward cascadable MEMS logic device based on mode localization. Sensors and Actuators A: Physical, 2020, 315, 112367.	2.0	14
33	Dynamics of V-Shaped Electrothermal MEMS-Based Resonators. Journal of Microelectromechanical Systems, 2020, 29, 1372-1381.	1.7	13
34	Dynamics Characterization of a U-Shaped Micro-Resonator Portal Frame. Journal of Microelectromechanical Systems, 2020, 29, 1362-1371.	1.7	3
35	A monolithic tunable symmetric bistable mechanism. Smart Materials and Structures, 2020, 29, 075033.	1.8	14
36	A Low Power Micro-Electromechanical Resonator-Based Digital to Analog Converter. Journal of Microelectromechanical Systems, 2020, 29, 320-328.	1.7	10

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37	A symmetrical bistable mechanism from combination of pre-shaped microbeams. Sensors and Actuators A: Physical, 2020, 306, 111961.	2.0	3
38	Spring-Shaped Inductor Tuned With a Microelectromechanical Electrothermal Actuator. IEEE Magnetics Letters, 2020, 11, 1-5.	0.6	2
39	On the double resonance activation of electrostatically actuated microbeam based resonators. International Journal of Non-Linear Mechanics, 2020, 121, 103437.	1.4	7
40	A Nanoelectromechanical Resonator-Based Flash Style Analog to Digital Converter. , 2020, , .		6
41	Theoretical and experimental investigation of mode localization in electrostatically and mechanically coupled microbeam resonators. International Journal of Non-Linear Mechanics, 2020, 125, 103516.	1.4	17
42	Modeling of Beam Electrothermal Actuators. Journal of Microelectromechanical Systems, 2020, 29, 1570-1581.	1.7	12
43	Analytical Study of the Snap-Through and Bistability of Beams With Arbitrarily Initial Shape. Journal of Mechanisms and Robotics, 2020, 12, .	1.5	17
44	2:1 MUX and OR Logic Functions Using Triple Partial Electrodes: Toward Cascadable MEMS Logic Devices. , 2020, , .		0
45	Multi-Inputs/Outputs and Cascadable MEMS Resonator-Based Computing Devices. , 2020, , .		0
46	Investigating Mode Localization at Lower- and Higher-Order Modes in Mechanically Coupled MEMS Resonators. Journal of Computational and Nonlinear Dynamics, 2020, 15, .	0.7	7
47	Task feasibility of V shape electrothermal actuators. Engineering Research Express, 2020, 2, 035035.	0.8	4
48	Highly sensitive and wide-range resonant pressure sensor based on the veering phenomenon. Sensors and Actuators A: Physical, 2019, 300, 111652.	2.0	35
49	Parallel Logics Using Multimode Excitation of a Single MEMS Resonator. , 2019, , .		0
50	A Sensitive Resonant Gas Sensor Based on Multimode Excitation of a Buckled Beam. , 2019, , .		2
51	On the Application of the Multiple Scales Method on Electrostatically Actuated Resonators. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	5
52	On the response of MEMS resonators under generic electrostatic loadings: theoretical analysis. Nonlinear Dynamics, 2019, 97, 967-977.	2.7	6
53	Miniature pressure sensor based on suspended MWCNT. Sensors and Actuators A: Physical, 2019, 292, 11-16.	2.0	5
54	A Compact Adder and Reprogrammable Logic Gate Using Micro-Electromechanical Resonators With Partial Electrodes. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 2057-2061.	2.2	19

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55	Multi-Inputs and Multi-Outputs Mems Resonator for Complex Logic Operations. , 2019, , .		0
56	On the response of MEMS resonators under generic electrostatic loadings: experiments and applications. Nonlinear Dynamics, 2019, 95, 2263-2274.	2.7	19
57	Efficient Activation of Nanomechanical Resonators. Advanced Electronic Materials, 2019, 5, 1800356.	2.6	2
58	Theoretical and Experimental Investigation of Two-to-One Internal Resonance in MEMS Arch Resonators. Journal of Computational and Nonlinear Dynamics, 2019, 14, .	0.7	23
59	Two-to-one internal resonance of an inclined marine riser under harmonic excitations. Nonlinear Dynamics, 2019, 95, 1301-1321.	2.7	7
60	Three-to-one internal resonance of inclined marine riser. International Journal of Non-Linear Mechanics, 2019, 109, 107-117.	1.4	9
61	Interpreting and Predicting Experimental Responses of Micro- and Nano-Devices via Dynamical Integrity. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2019, , 113-166.	0.3	3
62	Wide Range Highly Sensitive Pressure Sensor Based on Heated Micromachined Arch Beam. , 2019, , .		0
63	Adjustable static and dynamic actuation of clamped-guided beams using electrothermal axial loads. Sensors and Actuators A: Physical, 2018, 273, 19-29.	2.0	8
64	Resonant Gas Sensor and Switch Operating in Air With Metal-Organic Frameworks Coating. Journal of Microelectromechanical Systems, 2018, 27, 156-163.	1.7	29
65	Highly Tunable Electrostatic Nanomechanical Resonators. IEEE Nanotechnology Magazine, 2018, 17, 113-121.	1.1	10
66	A MEMS coupled resonator for frequency filtering in air. Mechatronics, 2018, 56, 261-267.	2.0	7
67	Axially modulated arch resonator for logic and memory applications. Mechatronics, 2018, 56, 254-260.	2.0	11
68	A single MEMS resonator for reconfigurable multifunctional logic gates. Journal of Micromechanics and Microengineering, 2018, 28, 095002.	1.5	18
69	Electrothermally actuated tunable clamped-guided resonant microbeams. Mechanical Systems and Signal Processing, 2018, 98, 1069-1076.	4.4	13
70	A state space approach for the eigenvalue problem of marine risers. Meccanica, 2018, 53, 747-757.	1.2	5
71	Design and Demonstration of A Compact Full Adder Using Micro-beam Resonators. , 2018, , .		5
72	Experimental and Theoretical Study of Two-to-One Internal Resonance of MEMS Resonators. , 2018, , .		0

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73	An Experimental and Theoretical Investigation of Double Resonance Activation in Electrostatic MEMS Resonators. , 2018, , .		0
74	Complex Logic Operations Based on MEMS Resonators. , 2018, , .		0
75	In-Plane Air Damping of NEMS and MEMS Resonators. , 2018, , .		1
76	Mechanical Computing Using Multifrequency Excited NEMS Resonator. , 2018, , .		1
77	Multimode excitation of a metal organics frameworks coated microbeam for smart gas sensing and actuation. Sensors and Actuators A: Physical, 2018, 283, 254-262.	2.0	24
78	Multimode MEMS Resonator for Simultaneous Sensing of Vapor Concentration and Temperature. IEEE Sensors Journal, 2018, 18, 10145-10153.	2.4	30
79	Two-to-one internal resonance of MEMS arch resonators. International Journal of Non-Linear Mechanics, 2018, 107, 64-72.	1.4	40
80	Multiple internal resonances in MEMS arch resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3393-3398.	0.9	41
81	An investigation into the mechanical behavior of multi- input and multi-output MEMS resonators. Sensors and Actuators A: Physical, 2018, 280, 309-318.	2.0	6
82	Analytical study of the frequency shifts of micro and nano clampedâ€“clamped beam resonators due to an added mass. Meccanica, 2017, 52, 333-348.	1.2	29
83	An analytic solution of the static problem of inclined risers conveying fluid. Meccanica, 2017, 52, 1175-1187.	1.2	9
84	Multi-function and cascadable MEMS logic device. , 2017, , .		4
85	Tunable nanoelectromechanical resonator for logic computations. Nanoscale, 2017, 9, 3449-3457.	2.8	34
86	A parity checker circuit based on microelectromechanical resonator logic elements. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 843-848.	0.9	9
87	Approaches for Reduced-Order Modeling of Electrically Actuated von-Karman Microplates. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	3
88	On the Nonlinear Dynamics of a Doubly Clamped Microbeam Near Primary Resonance. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.0	0
89	A Coupled Resonator for Highly Tunable and Amplified Mixer/Filter. IEEE Transactions on Electron Devices, 2017, 64, 2659-2664.	1.6	16
90	Dynamics of Transition Regime in Bistable Vibration Energy Harvesters. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.0	44

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91	MEMS Logic Using Mixed-Frequency Excitation. Journal of Microelectromechanical Systems, 2017, 26, 1140-1146.	1.7	21
92	One-to-One and Three-to-One Internal Resonances in MEMS Shallow Arches. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	0.7	43
93	Electrothermally Tunable Arch Resonator. Journal of Microelectromechanical Systems, 2017, 26, 837-845.	1.7	29
94	Mode Coupling and Nonlinear Resonances of MEMS Arch Resonators for Bandpass Filters. Scientific Reports, 2017, 7, 41820.	1.6	88
95	The static and dynamic behavior of MEMS arch resonators near veering and the impact of initial shapes. International Journal of Non-Linear Mechanics, 2017, 95, 277-286.	1.4	50
96	Effect of Initial Curvature on the Static and Dynamic Behavior of MEMS Resonators. , 2017, , .		0
97	Smart Resonant Gas Sensor and Switch Operating in Air With Metal-Organic Frameworks Coating. , 2017, , .		0
98	Axially Modulated Clamped-Guided Arch Resonator for Memory and Logic Applications. , 2017, , .		2
99	Highly Tunable Narrow Bandpass MEMS Filter. IEEE Transactions on Electron Devices, 2017, 64, 3392-3398.	1.6	20
100	Global investigation of the nonlinear dynamics of carbon nanotubes. Acta Mechanica, 2017, 228, 1029-1043.	1.1	7
101	Natural frequencies and mode shapes of statically deformed inclined risers. International Journal of Non-Linear Mechanics, 2017, 94, 12-19.	1.4	18
102	MEMS Coupled Resonator for Filter Application in Air. , 2017, , .		0
103	An Electrically Actuated Microbeam-Based MEMS Device: Experimental and Theoretical Investigation. , 2017, , .		0
104	Electrothermally Actuated Microbeams With Varying Stiffness. , 2017, , .		2
105	Nanoelectromechanical resonator for logic operations. , 2017, , .		2
106	A Microbeam Resonator With Partial Electrodes for Logic and Memory Elements. IEEE Journal on Exploratory Solid-State Computational Devices and Circuits, 2017, 3, 83-92.	1.1	13
107	Highly tunable NEMS shallow arches. , 2017, , .		0
108	Dynamics of Microbeams under Multi-Frequency Excitations. Micromachines, 2017, 8, 32.	1.4	9

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109	Scalable Pressure Sensor Based on Electrothermally Operated Resonator. , 2017, , .		0
110	Fabrication and Characterization of MWCNT-Based Bridge Devices. IEEE Nanotechnology Magazine, 2017, 16, 1037-1046.	1.1	4
111	Tunable Clampedâ€"Guided Arch Resonators Using Electrostatically Induced Axial Loads. Micromachines, 2017, 8, 14.	1.4	30
112	Electrostatically Tunable Nanomechanical Shallow Arches. , 2017, , .		0
113	Nonlinear-Based MEMS Sensors and Active Switches for Gas Detection. Sensors, 2016, 16, 758.	2.1	46
114	Investigation of the nonlinear static and dynamic behaviour of rectangular microplates under electrostatic actuation. MATEC Web of Conferences, 2016, 83, 04005.	0.1	0
115	Control of Bouncing in MEMS Switches Using Double Electrodes. Mathematical Problems in Engineering, 2016, 2016, 1-10.	0.6	3
116	Humidity Detection Using Metal Organic Framework Coated on QCM. Journal of Sensors, 2016, 2016, 1-8.	0.6	25
117	In-Plane MEMS Shallow Arch Beam for Mechanical Memory. Micromachines, 2016, 7, 191.	1.4	37
118	Nonlinear Phenomena in the Single-Mode Dynamics in an AFM Cantilever Beam. , 2016, , .		1
119	Experimental Investigation of 2:1 and 3:1 Internal Resonances in Nonlinear MEMS Arch Resonators. , 2016, , .		3
120	Electrothermally Tunable Bridge Resonator. , 2016, , .		0
121	Natural Frequencies and Mode Shapes of Statically Deformed Inclined Risers. , 2016, , .		3
122	Static and Dynamic Amplification Using Strong Mechanical Coupling. , 2016, , .		0
123	Frequency Shifts of Micro and Nano Cantilever Beam Resonators Due to Added Masses. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	0.9	31
124	Mass and Position Determination in MEMS Resonant Mass Sensors: Theoretical and Experimental Investigation. , 2016, , .		0
125	The Effect of an Added Mass on the Frequency Shifts of a Clamped-Clamped Microbeam for Bio-Mass Detection. , 2016, , .		1
126	Initially Imperfect MEMS Microplates Under Electrostatic Actuation: Theory and Experiment. , 2016, , .		0

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127	Nonlinear-Based Switch Triggered by Gas Using Electrostatically Actuated Microbeams. , 2016, , .		0
128	A smart microelectromechanical sensor and switch triggered by gas. Applied Physics Letters, 2016, 109, .	1.5	39
129	A 2:1 MUX Based on Multiple MEMS Resonators. Procedia Engineering, 2016, 168, 1642-1645.	1.2	9
130	Highly Tunable Electrothermally and Electrostatically Actuated Resonators. Journal of Microelectromechanical Systems, 2016, 25, 440-449.	1.7	43
131	Theoretical and Experimental Investigation of the Nonlinear Behavior of an Electrostatically Actuated In-Plane MEMS Arch. Journal of Microelectromechanical Systems, 2016, 25, 570-578.	1.7	35
132	Mass and position determination in MEMS mass sensors: a theoretical and an experimental investigation. Journal of Micromechanics and Microengineering, 2016, 26, 105009.	1.5	29
133	Static and Dynamic Amplification Using Strong Mechanical Coupling. Journal of Microelectromechanical Systems, 2016, 25, 916-921.	1.7	25
134	Microelectromechanical resonator based digital logic elements. , 2016, , .		8
135	Multifrequency excitation of a clampedâ€“clamped microbeam: Analytical and experimental investigation. Microsystems and Nanoengineering, 2016, 2, 16002.	3.4	28
136	Tunable Resonators for Nonlinear Modal Interactions. Scientific Reports, 2016, 6, 34717.	1.6	52
137	Electrothermal Frequency Modulated Resonator for Mechanical Memory. Journal of Microelectromechanical Systems, 2016, 25, 877-883.	1.7	20
138	Highly Tunable Electrothermally Actuated Arch Resonator. , 2016, , .		0
139	An experimental and theoretical investigation of electrostatically coupled cantilever microbeams. Sensors and Actuators A: Physical, 2016, 247, 368-378.	2.0	21
140	An investigation of the static and dynamic behavior of electrically actuated rectangular microplates. International Journal of Non-Linear Mechanics, 2016, 85, 81-93.	1.4	36
141	Mixed frequency excitation of an electrostatically actuated resonator. Microsystem Technologies, 2016, 22, 1967-1974.	1.2	8
142	Nonlinear Dynamics of Carbon Nanotubes Under Large Electrostatic Force. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	0.7	17
143	Experimental investigation of snap-through motion of in-plane MEMS shallow arches under electrostatic excitation. Journal of Micromechanics and Microengineering, 2016, 26, 015012.	1.5	26
144	Wideband MEMS resonator using multifrequency excitation. Sensors and Actuators A: Physical, 2016, 242, 140-145.	2.0	20

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145	Higher order modes excitation of electrostatically actuated clampedâ€“clamped microbeams: experimental and analytical investigation. Journal of Micromechanics and Microengineering, 2016, 26, 025008.	1.5	38
146	Nonlinear-Based MEMS Sensors and Active Switches for Gas and Acceleration Applications. Proceedings (mdpi), 2016, 1, .	0.2	1
147	Multifrequency Excitation of a Clamped-Clamped Microbeam. , 2015, , .		0
148	Static Response of Microbeams due to Capillary and Electrostatic Forces. , 2015, , .		1
149	The Dynamics of a Doubly Clamped Microbeam Near the Primary Resonance: Experimental and Analytical Investigation. , 2015, , .		0
150	An Experimental and Theoretical Investigation of a Micromirror Under Mixed-Frequency Excitation. Journal of Microelectromechanical Systems, 2015, 24, 1124-1131.	1.7	30
151	Experimental and analytical study of highly tunable electrostatically actuated resonant beams. Journal of Micromechanics and Microengineering, 2015, 25, 125015.	1.5	13
152	Torsion based universal MEMS logic device. Sensors and Actuators A: Physical, 2015, 236, 150-158.	2.0	24
153	An Experimental Investigation of the Dynamic Behavior of an In-Plane MEMS Shallow Arch Under Electrostatic Excitation. , 2015, , .		0
154	Analytical expressions for the electrostatically actuated curled beam problem. Microsystem Technologies, 2015, 21, 1709-1717.	1.2	18
155	Multi-mode excitation of a clampedâ€“clamped microbeam resonator. Nonlinear Dynamics, 2015, 80, 1531-1541.	2.7	15
156	Investigation of the dynamics of a clampedâ€“clamped microbeam near symmetric higher order modes using partial electrodes. International Journal of Dynamics and Control, 2015, 3, 173-182.	1.5	6
157	Delayed feedback controller for microelectromechanical systems resonators undergoing large motion. JVC/Journal of Vibration and Control, 2015, 21, 2604-2615.	1.5	8
158	Dynamics of a clampedâ€“clamped microbeam resonator considering fabrication imperfections. Microsystem Technologies, 2015, 21, 2425-2434.	1.2	20
159	Jump and pull-in dynamics of an electrically actuated bistable MEMS device. MATEC Web of Conferences, 2014, 16, 04001.	0.1	2
160	Theoretical Prediction of Experimental Jump and Pull-In Dynamics in a MEMS Sensor. Sensors, 2014, 14, 17089-17111.	2.1	23
161	Simple Fall Criteria for MEMS Sensors: Data Analysis and Sensor Concept. Sensors, 2014, 14, 12149-12173.	2.1	13
162	An Efficient Reduced-Order Model for the Nonlinear Dynamics of Carbon Nanotubes. , 2014, , .		1

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163	Investigation of the Dynamics of a Clamped-Clamped Microbeam Near the Third Mode Using a Partial Electrode. , 2014, , .		0
164	On using the dynamic snap-through motion of MEMS initially curved microbeams for filtering applications. Journal of Sound and Vibration, 2014, 333, 555-568.	2.1	105
165	Simple and Accurate Analytical Solutions of the Electrostatically Actuated Curled Beam Problem. , 2014, , .		0
166	Dynamics of an Imperfect Microbeam Considering its Exact Shape. , 2014, , .		2
167	An electrically actuated imperfect microbeam: Dynamical integrity for interpreting and predicting the device response. Meccanica, 2013, 48, 1761-1775.	1.2	46
168	Multistability in an electrically actuated carbon nanotube: a dynamical integrity perspective. Nonlinear Dynamics, 2013, 74, 533-549.	2.7	24
169	Nonlinear dynamics of an electrically actuated imperfect microbeam resonator: experimental investigation and reduced-order modeling. Journal of Micromechanics and Microengineering, 2013, 23, 075012.	1.5	59
170	Parameter identification of an electrically actuated imperfect microbeam. International Journal of Non-Linear Mechanics, 2013, 57, 208-219.	1.4	10
171	Dynamics of MEMS Arches of Flexible Supports. Journal of Microelectromechanical Systems, 2013, 22, 216-224.	1.7	46
172	Nonlinear Dynamic Response of an Electrically Actuated Imperfect Microbeam Resonator. , 2013, , .		1
173	Nonlinear Dynamics of an Electrically Actuated MEMS Device: Experimental and Theoretical Investigation. , 2013, , .		0
174	AN IMPERFECT MICROBEAM UNDER AN AXIAL LOAD AND ELECTRIC EXCITATION: NONLINEAR PHENOMENA AND DYNAMICAL INTEGRITY. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350026.	0.7	44
175	Electrostatically actuated resonant switches for earthquake detection. , 2013, , .		0
176	Investigation of a Delayed Feedback Controller of MEMS Resonators. , 2013, , .		1
177	The Effect of Squeeze-Film Damping on the Shock Response of Clamped-Clamped Microbeams. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	15
178	Dynamic response of slacked single-walled carbon nanotube resonators. Nonlinear Dynamics, 2012, 67, 1419-1436.	2.7	40
179	Integrity Analysis of Electrically Actuated Resonators With Delayed Feedback Controller. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2011, 133, .	0.9	25
180	Natural frequencies and mode shapes of initially curved carbon nanotube resonators under electric excitation. Journal of Sound and Vibration, 2011, 330, 3182-3195.	2.1	97

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181	MEMS Linear and Nonlinear Statics and Dynamics. Microsystems, 2011, , .	0.3	450
182	Nonlinear Dynamics of MEMS Arches Under Harmonic Electrostatic Actuation. Journal of Microelectromechanical Systems, 2010, 19, 647-656.	1.7	115
183	The dynamic behavior of MEMS arch resonators actuated electrically. International Journal of Non-Linear Mechanics, 2010, 45, 704-713.	1.4	202
184	Nonlinear Dynamics of Electrically Actuated Carbon Nanotube Resonators. Journal of Computational and Nonlinear Dynamics, 2010, 5, .	0.7	104
185	Modeling the effects of the PCB motion on the response of microstructures under mechanical shock. , 2010, , .		1
186	An Experimental and Theoretical Investigation of Dynamic Pull-In in MEMS Resonators Actuated Electrostatically. Journal of Microelectromechanical Systems, 2010, 19, 794-806.	1.7	101
187	Stabilization of electrostatic MEMS resonators using a delayed feedback controller. Smart Materials and Structures, 2010, 19, 035016.	1.8	46
188	A Study for the Effect of the PCB Motion on the Dynamics of MEMS Devices Under Mechanical Shock. Journal of Microelectromechanical Systems, 2009, 18, 597-609.	1.7	22
189	On the nonlinear resonances and dynamic pull-in of electrostatically actuated resonators. Journal of Micromechanics and Microengineering, 2009, 19, 045013.	1.5	128
190	The static and dynamic behavior of MEMS arches under electrostatic actuation. , 2009, , .		2
191	Controlling dynamic pull-in escape in electrostatic MEMS. , 2009, , .		2
192	Exploration of New Concepts for Mass Detection in Electrostatically-Actuated Structures Based on Nonlinear Phenomena. Journal of Computational and Nonlinear Dynamics, 2009, 4, .	0.7	82
193	Simulation of Squeeze-Film Damping of Microplates Actuated by Large Electrostatic Load. Journal of Computational and Nonlinear Dynamics, 2007, 2, 232-241.	0.7	42
194	Computationally Efficient Approaches to Characterize the Dynamic Response of Microstructures Under Mechanical Shock. Journal of Microelectromechanical Systems, 2007, 16, 628-638.	1.7	57
195	Characterization of the performance of capacitive switches activated by mechanical shock. Journal of Micromechanics and Microengineering, 2007, 17, 1360-1370.	1.5	64
196	Dynamic pull-in phenomenon in MEMS resonators. Nonlinear Dynamics, 2007, 48, 153-163.	2.7	392
197	Investigation of the response of microstructures under the combined effect of mechanical shock and electrostatic forces. Journal of Micromechanics and Microengineering, 2006, 16, 2463-2474.	1.5	10
198	Reduced-Order Models for MEMS Applications. Nonlinear Dynamics, 2005, 41, 211-236.	2.7	256

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199	Dynamics of MEMS resonators under superharmonic and subharmonic excitations. Journal of Micromechanics and Microengineering, 2005, 15, 1840-1847.	1.5	193
200	Modeling and simulations of thermoelastic damping in microplates. Journal of Micromechanics and Microengineering, 2004, 14, 1711-1717.	1.5	237
201	A reduced-order model for electrically actuated microbeam-based MEMS. Journal of Microelectromechanical Systems, 2003, 12, 672-680.	1.7	506