

Mohammad Younis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163
papers

4,354
citations

30
h-index

61
g-index

205
ext. papers

5,105
ext. citations

3
avg, IF

6.36
L-index

#	Paper	IF	Citations
163	Nonparametric Identification of a Nonlinear MEMS Resonator 2022 , 405-415		0
162	Global Analysis and Experimental Dynamics of the 2:1 Internal Resonance in the Higher-Order Modes of a MEMS Microbeam 2022 , 301-309		
161	Selective multiple analyte detection using multi-mode excitation of a MEMS resonator.. <i>Scientific Reports</i> , 2022 , 12, 5297	4.9	1
160	Parametric resonance of bi-directional axial loads shallow arch microresonators. <i>Journal of Micromechanics and Microengineering</i> , 2022 , 32, 054004	2	
159	RF MEMS electrostatically actuated tunable capacitors and their applications: a review. <i>Journal of Micromechanics and Microengineering</i> , 2022 , 32, 013002	2	2
158	Highly sensitive low field Lorentz-force MEMS magnetometer. <i>Scientific Reports</i> , 2021 , 11, 21634	4.9	1
157	Design, modeling, and testing of a bidirectional multi-threshold MEMS inertial switch. <i>Sensors and Actuators A: Physical</i> , 2021 , 334, 113219	3.9	0
156	Crossover/veering in V-Shaped MEMS Resonators. <i>Journal of Microelectromechanical Systems</i> , 2021 , 1-13	2.5	1
155	Analytical and experimental study of the dynamics of a micro-electromechanical resonator based digital-to-analog converter. <i>Journal of Micromechanics and Microengineering</i> , 2021 , 31, 125010	2	1
154	Two-to-one internal resonance in the higher-order modes of a MEMS beam: Experimental investigation and theoretical analysis via local stability theory. <i>International Journal of Non-Linear Mechanics</i> , 2021 , 129, 103664	2.8	8
153	Chemical Gas Sensors: Recent Developments, Challenges, and the Potential of Machine Learning-A Review. <i>Sensors</i> , 2021 , 21,	3.8	16
152	Experimental and theoretical investigation of the 2:1 internal resonance in the higher-order modes of a MEMS microbeam at elevated excitations. <i>Journal of Sound and Vibration</i> , 2021 , 499, 115983	3.9	4
151	Static and dynamic actuations of clamped-clamped V-shaped micro-resonators under electrostatic forces. <i>Mechanical Systems and Signal Processing</i> , 2021 , 155, 107571	7.8	5
150	Highly Sensitive Resonant Magnetic Sensor Based on the Veering Phenomenon. <i>IEEE Sensors Journal</i> , 2021 , 21, 13165-13175	4	4
149	Statics and Dynamics of V-Shaped Microbeams Under Axial Forces. <i>Journal of Computational and Nonlinear Dynamics</i> , 2021 , 16,	1.4	1
148	Multi-threshold inertial switch for quantitative acceleration measurements. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	2
147	Internal resonance in the higher-order modes of a MEMS beam: experiments and global analysis. <i>Nonlinear Dynamics</i> , 2021 , 103, 2197-2226	5	3

146	A Wideband Magnetic Frequency Up-Converter Energy Harvester. <i>Advanced Engineering Materials</i> , 2021 , 23, 2001364	3.5	4
145	Resonator-Based Bidirectional Lorentz Force Magnetic Sensor. <i>IEEE Electron Device Letters</i> , 2021 , 42, 406-409	4.4	6
144	Static and Dynamic Analysis of Electrostatically Actuated MEMS Shallow Arches for Various Air-Gap Configurations. <i>Micromachines</i> , 2021 , 12,	3.3	1
143	Nonparametric identification of a micro-electromechanical resonator. <i>Mechanical Systems and Signal Processing</i> , 2021 , 161, 107932	7.8	1
142	A monolithic tunable symmetric bistable mechanism. <i>Smart Materials and Structures</i> , 2020 , 29, 075033	3.4	5
141	A Low Power Micro-Electromechanical Resonator-Based Digital to Analog Converter. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 320-328	2.5	4
140	A symmetrical bistable mechanism from combination of pre-shaped microbeams. <i>Sensors and Actuators A: Physical</i> , 2020 , 306, 111961	3.9	0
139	Spring-Shaped Inductor Tuned With a Microelectromechanical Electrothermal Actuator. <i>IEEE Magnetics Letters</i> , 2020 , 11, 1-5	1.6	1
138	On the double resonance activation of electrostatically actuated microbeam based resonators. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 121, 103437	2.8	4
137	A Nanoelectromechanical Resonator-Based Flash Style Analog to Digital Converter 2020 ,		1
136	Modeling of Beam Electrothermal Actuators. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 1570-1581	1.5	5
135	Analytical Study of the Snap-Through and Bistability of Beams With Arbitrarily Initial Shape. <i>Journal of Mechanisms and Robotics</i> , 2020 , 12,	2.2	9
134	Investigating Mode Localization at Lower- and Higher-Order Modes in Mechanically Coupled MEMS Resonators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2020 , 15,	1.4	3
133	Task feasibility of V shape electrothermal actuators. <i>Engineering Research Express</i> , 2020 , 2, 035035	0.9	1
132	Theoretical and experimental investigation of mode localization in electrostatically and mechanically coupled microbeam resonators. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 125, 103516	2.8	9
131	A Resonant Gas Sensor Based on Multimode Excitation of a Buckled Microbeam. <i>IEEE Sensors Journal</i> , 2020 , 20, 1778-1785	4	11
130	Resonator-based M/NEMS logic devices: Review of recent advances. <i>Sensors and Actuators A: Physical</i> , 2020 , 302, 111821	3.9	14
129	Toward cascable MEMS logic device based on mode localization. <i>Sensors and Actuators A: Physical</i> , 2020 , 315, 112367	3.9	11

128	Dynamics of V-Shaped Electrothermal MEMS-Based Resonators. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 1372-1381	2.5	11
127	Dynamics Characterization of a U-Shaped Micro-Resonator Portal Frame. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 1362-1371	2.5	1
126	Theoretical and experimental investigations of the crossover phenomenon in micromachined arch resonator: part II simultaneous 1:1 and 2:1 internal resonances. <i>Nonlinear Dynamics</i> , 2020 , 99, 407-432	5	20
125	Theoretical and experimental investigations of the crossover phenomenon in micromachined arch resonator: part I linear problem. <i>Nonlinear Dynamics</i> , 2020 , 99, 393-405	5	16
124	Linear and nonlinear dynamics of micro and nano-resonators: Review of recent advances. <i>International Journal of Non-Linear Mechanics</i> , 2020 , 119, 103328	2.8	43
123	Multifrequency excitation of an inclined marine riser under internal resonances. <i>Nonlinear Dynamics</i> , 2020 , 99, 149-171	5	8
122	A Sensitive Resonant Gas Sensor Based on Multimode Excitation of a Buckled Beam 2019 ,		1
121	On the Application of the Multiple Scales Method on Electrostatically Actuated Resonators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019 , 14,	1.4	4
120	On the response of MEMS resonators under generic electrostatic loadings: theoretical analysis. <i>Nonlinear Dynamics</i> , 2019 , 97, 967-977	5	6
119	Miniature pressure sensor based on suspended MWCNT. <i>Sensors and Actuators A: Physical</i> , 2019 , 292, 11-16	3.9	5
118	Highly sensitive and wide-range resonant pressure sensor based on the veering phenomenon. <i>Sensors and Actuators A: Physical</i> , 2019 , 300, 111652	3.9	22
117	. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 2057-2061	3.5	12
116	On the response of MEMS resonators under generic electrostatic loadings: experiments and applications. <i>Nonlinear Dynamics</i> , 2019 , 95, 2263-2274	5	14
115	Efficient Activation of Nanomechanical Resonators. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800356	6.4	0
114	Theoretical and Experimental Investigation of Two-to-One Internal Resonance in MEMS Arch Resonators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2019 , 14,	1.4	17
113	Two-to-one internal resonance of an inclined marine riser under harmonic excitations. <i>Nonlinear Dynamics</i> , 2019 , 95, 1301-1321	5	6
112	Three-to-one internal resonance of inclined marine riser. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 109, 107-117	2.8	7
111	Interpreting and Predicting Experimental Responses of Micro- and Nano-Devices via Dynamical Integrity. <i>CISM International Centre for Mechanical Sciences, Courses and Lectures</i> , 2019 , 113-166	0.6	2

110	Adjustable static and dynamic actuation of clamped-guided beams using electrothermal axial loads. <i>Sensors and Actuators A: Physical</i> , 2018 , 273, 19-29	3.9	4
109	Resonant Gas Sensor and Switch Operating in Air With Metal-Organic Frameworks Coating. <i>Journal of Microelectromechanical Systems</i> , 2018 , 27, 156-163	2.5	19
108	Highly Tunable Electrostatic Nanomechanical Resonators. <i>IEEE Nanotechnology Magazine</i> , 2018 , 17, 113-121	3.1	6
107	A MEMS coupled resonator for frequency filtering in air. <i>Mechatronics</i> , 2018 , 56, 261-267	3	2
106	Axially modulated arch resonator for logic and memory applications. <i>Mechatronics</i> , 2018 , 56, 254-260	3	9
105	A single MEMS resonator for reconfigurable multifunctional logic gates. <i>Journal of Micromechanics and Microengineering</i> , 2018 , 28, 095002	2	13
104	Electrothermally actuated tunable clamped-guided resonant microbeams. <i>Mechanical Systems and Signal Processing</i> , 2018 , 98, 1069-1076	7.8	9
103	A state space approach for the eigenvalue problem of marine risers. <i>Meccanica</i> , 2018 , 53, 747-757	2.1	3
102	An investigation into the mechanical behavior of multi- input and multi-output MEMS resonators. <i>Sensors and Actuators A: Physical</i> , 2018 , 280, 309-318	3.9	4
101	Design and Demonstration of A Compact Full Adder Using Micro-beam Resonators 2018 ,		4
100	2018 ,		1
99	Multimode excitation of a metal organics frameworks coated microbeam for smart gas sensing and actuation. <i>Sensors and Actuators A: Physical</i> , 2018 , 283, 254-262	3.9	13
98	. <i>IEEE Sensors Journal</i> , 2018 , 18, 10145-10153	4	16
97	Two-to-one internal resonance of MEMS arch resonators. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 107, 64-72	2.8	25
96	Multiple internal resonances in MEMS arch resonators. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 3393-3398	2.3	26
95	Analytical study of the frequency shifts of micro and nano clamped-clamped beam resonators due to an added mass. <i>Meccanica</i> , 2017 , 52, 333-348	2.1	21
94	An analytic solution of the static problem of inclined risers conveying fluid. <i>Meccanica</i> , 2017 , 52, 1175-1187	1.8	8
93	Tunable nanoelectromechanical resonator for logic computations. <i>Nanoscale</i> , 2017 , 9, 3449-3457	7.7	29

92	A parity checker circuit based on microelectromechanical resonator logic elements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 843-848	2.3	8
91	Approaches for Reduced-Order Modeling of Electrically Actuated von-Karman Microplates. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	2
90	A Coupled Resonator for Highly Tunable and Amplified Mixer/Filter. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 2659-2664	2.9	12
89	Dynamics of Transition Regime in Bistable Vibration Energy Harvesters. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017 , 139,	1.6	30
88	MEMS Logic Using Mixed-Frequency Excitation. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 1140-1146	2.5	16
87	One-to-One and Three-to-One Internal Resonances in MEMS Shallow Arches. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	32
86	. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 837-845	2.5	22
85	Mode Coupling and Nonlinear Resonances of MEMS Arch Resonators for Bandpass Filters. <i>Scientific Reports</i> , 2017 , 7, 41820	4.9	58
84	Fabrication and Characterization of MWCNT-Based Bridge Devices. <i>IEEE Nanotechnology Magazine</i> , 2017 , 16, 1037-1046	2.6	3
83	Tunable Clamped Guided Arch Resonators Using Electrostatically Induced Axial Loads. <i>Micromachines</i> , 2017 , 8, 14	3.3	22
82	The static and dynamic behavior of MEMS arch resonators near veering and the impact of initial shapes. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 95, 277-286	2.8	37
81	Axially Modulated Clamped-Guided Arch Resonator for Memory and Logic Applications 2017 ,		1
80	Highly Tunable Narrow Bandpass MEMS Filter. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 3392-3398	2.9	16
79	Global investigation of the nonlinear dynamics of carbon nanotubes. <i>Acta Mechanica</i> , 2017 , 228, 1029-1043	2.3	7
78	Natural frequencies and mode shapes of statically deformed inclined risers. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 94, 12-19	2.8	13
77	Electrothermally Actuated Microbeams With Varying Stiffness 2017 ,		1
76	A Microbeam Resonator With Partial Electrodes for Logic and Memory Elements. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2017 , 3, 83-92	2.4	10
75	Dynamics of Microbeams under Multi-Frequency Excitations. <i>Micromachines</i> , 2017 , 8, 32	3.3	5

74	Nonlinear-Based MEMS Sensors and Active Switches for Gas and Acceleration Applications. <i>Proceedings (mdpi)</i> , 2017 , 1, 43	0.3	1
73	Static and Dynamic Amplification Using Strong Mechanical Coupling. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 916-921	2.5	16
72	Microelectromechanical resonator based digital logic elements 2016 ,		8
71	Multifrequency excitation of a clamped-clamped microbeam: Analytical and experimental investigation. <i>Microsystems and Nanoengineering</i> , 2016 , 2, 16002	7.7	21
70	Tunable Resonators for Nonlinear Modal Interactions. <i>Scientific Reports</i> , 2016 , 6, 34717	4.9	39
69	. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 877-883	2.5	15
68	An experimental and theoretical investigation of electrostatically coupled cantilever microbeams. <i>Sensors and Actuators A: Physical</i> , 2016 , 247, 368-378	3.9	18
67	An investigation of the static and dynamic behavior of electrically actuated rectangular microplates. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 85, 81-93	2.8	30
66	Mixed frequency excitation of an electrostatically actuated resonator. <i>Microsystem Technologies</i> , 2016 , 22, 1967-1974	1.7	5
65	Nonlinear Dynamics of Carbon Nanotubes Under Large Electrostatic Force. <i>Journal of Computational and Nonlinear Dynamics</i> , 2016 , 11,	1.4	14
64	Experimental investigation of snap-through motion of in-plane MEMS shallow arches under electrostatic excitation. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 015012	2	22
63	Wideband MEMS resonator using multifrequency excitation. <i>Sensors and Actuators A: Physical</i> , 2016 , 242, 140-145	3.9	15
62	Higher order modes excitation of electrostatically actuated clamped-clamped microbeams: experimental and analytical investigation. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 025008	2	30
61	Nonlinear-Based MEMS Sensors and Active Switches for Gas Detection. <i>Sensors</i> , 2016 , 16,	3.8	31
60	Investigation of the nonlinear static and dynamic behaviour of rectangular microplates under electrostatic actuation. <i>MATEC Web of Conferences</i> , 2016 , 83, 04005	0.3	
59	Control of Bouncing in MEMS Switches Using Double Electrodes. <i>Mathematical Problems in Engineering</i> , 2016 , 2016, 1-10	1.1	2
58	Humidity Detection Using Metal Organic Framework Coated on QCM. <i>Journal of Sensors</i> , 2016 , 2016, 1-8	2	19
57	In-Plane MEMS Shallow Arch Beam for Mechanical Memory. <i>Micromachines</i> , 2016 , 7,	3.3	31

56	Nonlinear Phenomena in the Single-Mode Dynamics in an AFM Cantilever Beam 2016 ,		1
55	Experimental Investigation of 2:1 and 3:1 Internal Resonances in Nonlinear MEMS Arch Resonators 2016 ,		2
54	Natural Frequencies and Mode Shapes of Statically Deformed Inclined Risers 2016 ,		3
53	Frequency Shifts of Micro and Nano Cantilever Beam Resonators Due to Added Masses. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2016 , 138,	1.6	27
52	A smart microelectromechanical sensor and switch triggered by gas. <i>Applied Physics Letters</i> , 2016 , 109, 013502	3.4	26
51	A 2:1 MUX Based on Multiple MEMS Resonators. <i>Procedia Engineering</i> , 2016 , 168, 1642-1645		7
50	Highly Tunable Electrothermally and Electrostatically Actuated Resonators. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 440-449	2.5	29
49	Theoretical and Experimental Investigation of the Nonlinear Behavior of an Electrostatically Actuated In-Plane MEMS Arch. <i>Journal of Microelectromechanical Systems</i> , 2016 , 25, 570-578	2.5	27
48	Mass and position determination in MEMS mass sensors: a theoretical and an experimental investigation. <i>Journal of Micromechanics and Microengineering</i> , 2016 , 26, 105009	2	24
47	Multi-mode excitation of a clamped-clamped microbeam resonator. <i>Nonlinear Dynamics</i> , 2015 , 80, 1531-1541		11
46	Investigation of the dynamics of a clamped-clamped microbeam near symmetric higher order modes using partial electrodes. <i>International Journal of Dynamics and Control</i> , 2015 , 3, 173-182	1.7	6
45	Delayed feedback controller for microelectromechanical systems resonators undergoing large motion. <i>JVC/Journal of Vibration and Control</i> , 2015 , 21, 2604-2615	2	8
44	Dynamics of a clamped-clamped microbeam resonator considering fabrication imperfections. <i>Microsystem Technologies</i> , 2015 , 21, 2425-2434	1.7	16
43	An Experimental and Theoretical Investigation of a Micromirror Under Mixed-Frequency Excitation. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 1124-1131	2.5	24
42	Experimental and analytical study of highly tunable electrostatically actuated resonant beams. <i>Journal of Micromechanics and Microengineering</i> , 2015 , 25, 125015	2	10
41	Torsion based universal MEMS logic device. <i>Sensors and Actuators A: Physical</i> , 2015 , 236, 150-158	3.9	18
40	Analytical expressions for the electrostatically actuated curled beam problem. <i>Microsystem Technologies</i> , 2015 , 21, 1709-1717	1.7	12
39	On using the dynamic snap-through motion of MEMS initially curved microbeams for filtering applications. <i>Journal of Sound and Vibration</i> , 2014 , 333, 555-568	3.9	89

38	Dynamics of an Imperfect Microbeam Considering its Exact Shape 2014 ,		2
37	Jump and pull-in dynamics of an electrically actuated bistable MEMS device. <i>MATEC Web of Conferences</i> , 2014 , 16, 04001	0.3	2
36	Theoretical prediction of experimental jump and pull-in dynamics in a MEMS sensor. <i>Sensors</i> , 2014 , 14, 17089-111	3.8	16
35	Simple fall criteria for MEMS sensors: data analysis and sensor concept. <i>Sensors</i> , 2014 , 14, 12149-73	3.8	11
34	An Efficient Reduced-Order Model for the Nonlinear Dynamics of Carbon Nanotubes 2014 ,		1
33	An electrically actuated imperfect microbeam: Dynamical integrity for interpreting and predicting the device response. <i>Meccanica</i> , 2013 , 48, 1761-1775	2.1	37
32	Multistability in an electrically actuated carbon nanotube: a dynamical integrity perspective. <i>Nonlinear Dynamics</i> , 2013 , 74, 533-549	5	19
31	Nonlinear dynamics of an electrically actuated imperfect microbeam resonator: experimental investigation and reduced-order modeling. <i>Journal of Micromechanics and Microengineering</i> , 2013 , 23, 075012	2	56
30	Parameter identification of an electrically actuated imperfect microbeam. <i>International Journal of Non-Linear Mechanics</i> , 2013 , 57, 208-219	2.8	9
29	Dynamics of MEMS Arches of Flexible Supports. <i>Journal of Microelectromechanical Systems</i> , 2013 , 22, 216-224	2.5	39
28	AN IMPERFECT MICROBEAM UNDER AN AXIAL LOAD AND ELECTRIC EXCITATION: NONLINEAR PHENOMENA AND DYNAMICAL INTEGRITY. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2013 , 23, 1350026	2	34
27	Investigation of a Delayed Feedback Controller of MEMS Resonators 2013 ,		1
26	Dynamic response of slacked single-walled carbon nanotube resonators. <i>Nonlinear Dynamics</i> , 2012 , 67, 1419-1436	5	37
25	The Effect of Squeeze-Film Damping on the Shock Response of Clamped-Clamped Microbeams. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2012 , 134,	1.6	13
24	Integrity Analysis of Electrically Actuated Resonators With Delayed Feedback Controller. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2011 , 133,	1.6	23
23	Natural frequencies and mode shapes of initially curved carbon nanotube resonators under electric excitation. <i>Journal of Sound and Vibration</i> , 2011 , 330, 3182-3195	3.9	82
22	MEMS Linear and Nonlinear Statics and Dynamics. <i>Microsystems</i> , 2011 ,		329
21	Nonlinear Dynamics of Electrically Actuated Carbon Nanotube Resonators. <i>Journal of Computational and Nonlinear Dynamics</i> , 2010 , 5,	1.4	90

20	Modeling the effects of the PCB motion on the response of microstructures under mechanical shock 2010 ,		1
19	An Experimental and Theoretical Investigation of Dynamic Pull-In in MEMS Resonators Actuated Electrostatically. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 794-806	2.5	82
18	Stabilization of electrostatic MEMS resonators using a delayed feedback controller. <i>Smart Materials and Structures</i> , 2010 , 19, 035016	3.4	39
17	. <i>Journal of Microelectromechanical Systems</i> , 2010 , 19, 647-656	2.5	102
16	The dynamic behavior of MEMS arch resonators actuated electrically. <i>International Journal of Non-Linear Mechanics</i> , 2010 , 45, 704-713	2.8	168
15	A Study for the Effect of the PCB Motion on the Dynamics of MEMS Devices Under Mechanical Shock. <i>Journal of Microelectromechanical Systems</i> , 2009 , 18, 597-609	2.5	19
14	On the nonlinear resonances and dynamic pull-in of electrostatically actuated resonators. <i>Journal of Micromechanics and Microengineering</i> , 2009 , 19, 045013	2	110
13	The static and dynamic behavior of MEMS arches under electrostatic actuation 2009 ,		2
12	Controlling dynamic pull-in escape in electrostatic MEMS 2009 ,		1
11	Exploration of New Concepts for Mass Detection in Electrostatically-Actuated Structures Based on Nonlinear Phenomena. <i>Journal of Computational and Nonlinear Dynamics</i> , 2009 , 4,	1.4	73
10	Dynamic pull-in phenomenon in MEMS resonators. <i>Nonlinear Dynamics</i> , 2007 , 48, 153-163	5	333
9	Simulation of Squeeze-Film Damping of Microplates Actuated by Large Electrostatic Load. <i>Journal of Computational and Nonlinear Dynamics</i> , 2007 , 2, 232-241	1.4	35
8	Computationally Efficient Approaches to Characterize the Dynamic Response of Microstructures Under Mechanical Shock. <i>Journal of Microelectromechanical Systems</i> , 2007 , 16, 628-638	2.5	44
7	Characterization for the performance of capacitive switches activated by mechanical shock. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1360-1370	2	53
6	Investigation of the response of microstructures under the combined effect of mechanical shock and electrostatic forces. <i>Journal of Micromechanics and Microengineering</i> , 2006 , 16, 2463-2474	2	5
5	Dynamics of MEMS resonators under superharmonic and subharmonic excitations. <i>Journal of Micromechanics and Microengineering</i> , 2005 , 15, 1840-1847	2	163
4	Reduced-Order Models for MEMS Applications. <i>Nonlinear Dynamics</i> , 2005 , 41, 211-236	5	212
3	Modeling and simulations of thermoelastic damping in microplates. <i>Journal of Micromechanics and Microengineering</i> , 2004 , 14, 1711-1717	2	189

2 . *Journal of Microelectromechanical Systems*, **2003**, 12, 672-680 2.5 416

1 Recent advances on MEMS based Infrared Thermopile detectors. *Microsystem Technologies*, 1.7 2