List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Internal resonance and nonlinear dynamics of a dielectric elastomer circular membrane. International Journal of Solids and Structures, 2022, 236-237, 111338.	1.3	5
2	Parametric Analysis of a Piezoelectric Flexoelectric Energy Harvesting Nanosystem. Lecture Notes in Mechanical Engineering, 2022, , 174-179.	0.3	0
3	Deep learning for gas sensing using MOFs coated weakly-coupled microbeams. Applied Mathematical Modelling, 2022, 105, 711-728.	2.2	7
4	Parametric resonance of bi-directional axial loads shallow arch microresonators. Journal of Micromechanics and Microengineering, 2022, 32, 054004.	1.5	0
5	Pendulum-based embedded energy harvester for rotating systems. Mechanical Systems and Signal Processing, 2022, 180, 109415.	4.4	9
6	On the equivalence between mass perturbation and DC voltage bias in coupled MEMS resonators: Theoretical and experimental investigation. Journal of Applied Physics, 2022, 132, 024502.	1.1	5
7	Large Strokes of a Piezocomposite Energy Harvester with Interdigitated Electrodes Accounting for Geometric and Material Nonlinearities. Applied Condition Monitoring, 2021, , 105-116.	0.4	0
8	Nonlinear analysis and effectiveness of weakly coupled microbeams for mass sensing applications. Nonlinear Dynamics, 2021, 104, 383-397.	2.7	11
9	Arched beam based energy harvester using electrostatic transduction for general in-plane excitations. , 2021, , .		0
10	Extended range of a MEMS electrostatic actuator using an adjustable linear controller. , 2021, , .		1
11	Arch microbeam bifurcation gas sensors. Nonlinear Dynamics, 2021, 104, 923-940.	2.7	17
12	Deep learning for simultaneous measurements of pressure and temperature using arch resonators. Applied Mathematical Modelling, 2021, 93, 728-744.	2.2	10
13	2D electrostatic energy harvesting device using a single shallow arched microbeam. International Journal of Non-Linear Mechanics, 2021, 132, 103700.	1.4	14
14	Novel Capacitive MEMS Logic Gates For Logic Circuits and Systems. , 2021, , .		0
15	Energy harvesting using a clamped–clamped piezoelectric–flexoelectric beam. Journal Physics D: Applied Physics, 2021, 54, 415501.	1.3	6
16	Energy harvesters for rotating systems: Modeling and performance analysis. TM Technisches Messen, 2021, 88, 164-177.	0.3	4
17	Innovative In-Plane Converter Design for a Capacitive Energy Harvester. Applied Condition Monitoring, 2021, , 125-135.	0.4	0
18	Multifidelity modeling and comparative analysis of electrically coupled microbeams under squeeze-film damping effect. Nonlinear Dynamics, 2020, 99, 445-460.	2.7	11

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19	A unified model for electrostatic sensors in fluid media. Nonlinear Dynamics, 2020, 101, 271-291.	2.7	11
20	Fluid sensing using microcantilevers: From physics-based modeling to deep learning. Applied Mathematical Modelling, 2020, 88, 224-237.	2.2	12
21	A double-side electrically-actuated arch microbeam for pressure sensing applications. International Journal of Mechanical Sciences, 2020, 178, 105624.	3.6	31
22	Modeling and design of an ultra low-power NEMS relays: application to logic gate inverters. Analog Integrated Circuits and Signal Processing, 2020, 104, 17-26.	0.9	4
23	Design of a MEMS Electrostatic Kinetic Energy Harvester and its Bennet Conditioning Circuit in Integrated Technologies. , 2019, , .		6
24	Dynamic analysis of a nonlinear nanobeam with flexoelectric actuation. Journal of Applied Physics, 2019, 125, .	1.1	11
25	A new type of triboelectric nanogenerator with self-actuated series-to-parallel electrical interface based on self-synchronized mechanical switches for exponential charge accumulation in a capacitor. Nano Energy, 2019, 62, 465-474.	8.2	23
26	Modeling and experimental characterization of squeeze film effects in nonlinear capacitive circular microplates. Mechanical Systems and Signal Processing, 2019, 127, 68-88.	4.4	13
27	Nonlinear Dynamics of MEMS Arches Assuming Out-of-Plane Actuation Arrangement. Journal of Vibration and Acoustics, Transactions of the ASME, 2019, 141, .	1.0	17
28	Strong nonlinear dynamics of MEMS and NEMS structures based on semi-analytical approaches. Communications in Nonlinear Science and Numerical Simulation, 2018, 61, 1-21.	1.7	32
29	A square wave is the most efficient and reliable waveform for resonant actuation of micro switches. Journal of Micromechanics and Microengineering, 2018, 28, 055002.	1.5	8
30	Experimental and mathematical analysis of a piezoelectrically actuated multilayered imperfect microbeam subjected to applied electric potential. Composite Structures, 2018, 184, 950-960.	3.1	40
31	Static and dynamic analytical coupled field analysis of piezoelectric flexoelectric nanobeams: A strain gradient theory approach. International Journal of Solids and Structures, 2018, 135, 110-124.	1.3	39
32	Coupled Dynamics of a Flexible Horizontal Axis Wind Turbine With Damaged Blades: Experimental and Numerical Validations. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	1
33	Effects of Squeeze Film and Initial Deflection on the Resonance Frequencies and Modal Damping of Circular Microplates. , 2018, , .		0
34	Dynamic identification of human trunk behavior as a diagnosis tool for pathologic problems. , 2018, , .		2
35	Charge Doubler Vibration Energy Harvester Using Self-Synchronized mechanical switches. Journal of Physics: Conference Series, 2018, 1052, 012121.	0.3	0
36	Stiffness control of a nonlinear mechanical folded beam for wideband vibration energy harvesters. TM Technisches Messen, 2018, 85, 553-564.	0.3	9

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37	Modeling and Parametric Analysis of a Piezoelectric Flexoelectric Nanoactuator. Springer Proceedings in Physics, 2018, , 85-101.	0.1	1
38	Parametric analysis of multilayered unimorph piezoelectric vibration energy harvesters. JVC/Journal of Vibration and Control, 2017, 23, 2538-2553.	1.5	10
39	Design of a capacitive MEMS double beam switch using dynamic pull-in actuation at very low voltage. Microsystem Technologies, 2017, 23, 5317-5327.	1.2	19
40	Modeling and design of an electrically actuated resonant microswitch. JVC/Journal of Vibration and Control, 2016, 22, 559-569.	1.5	16
41	Design and test of a Bennet's doubler device with mechanical switches for vibrational energy harvesting. Journal of Physics: Conference Series, 2016, 773, 012038.	0.3	0
42	Nonlocal modeling of a Carbon Nanotube actuated by an electrostatic force. MATEC Web of Conferences, 2016, 83, 04004.	0.1	0
43	Analysis of new actuation methods for capacitive shunt micro switchs. MATEC Web of Conferences, 2016, 83, 04003.	0.1	0
44	Modeling and parametric analysis of a piezoelectric flexoelectric nanoactuator. MATEC Web of Conferences, 2016, 83, 04002.	0.1	1
45	Modeling and parametric analysis of a unimorph piezocomposite energy harvester with interdigitated electrodes. Composite Structures, 2016, 135, 176-190.	3.1	26
46	Modeling and design of very low-voltage MEMS microswitch using dynamic pull-in. , 2015, , .		2
47	Validation of a new structural health monitoring technique of a wind turbine prototype. , 2015, , .		0
48	Accurate reduced-order modeling of MEMS and NEMS microactuators under dynamic electrostatic loading and large strokes. , 2015, , .		0
49	Design and modelling of MEMS DC–DC converter. Electronics Letters, 2015, 51, 860-861.	0.5	6
50	MEMS SPDT microswitch with low actuation voltage for RF applications. Microelectronics International, 2015, 32, 55-62.	0.4	8
51	Advanced Parametric Analysis of Piezoelectric Actuators with Interdigitated Electrodes having Various Cross-Sections. Lecture Notes in Mechanical Engineering, 2015, , 489-499.	0.3	1
52	Nonlinear feedback controller of a microbeam resonator. JVC/Journal of Vibration and Control, 2015, 21, 1680-1697.	1.5	15
53	Nonlinear nonlocal analysis of electrostatic nanoactuators. Composite Structures, 2015, 120, 117-128.	3.1	51
54	A finite element analysis of a new design of a biomimetic shape memory alloy artificial muscle. Smart Structures and Systems, 2015, 16, 479-496.	1.9	3

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55	Mathematical Modeling of an Active-Fiber Composite Energy Harvester with Interdigitated Electrodes. Shock and Vibration, 2014, 2014, 1-9.	0.3	8
56	Confinement of Vibrations in Variable-Geometry Nonlinear Flexible Beam. Shock and Vibration, 2014, 2014, 1-7.	0.3	2
57	Dynamic Study of a Capacitive MEMS Switch with Double Clamped-Clamped Microbeams. Shock and Vibration, 2014, 2014, 1-7.	0.3	16
58	Design and modelling of an energy harvester for tire pressure monitoring systems. MATEC Web of Conferences, 2014, 16, 01009.	0.1	0
59	Design and performance of variable-shaped piezoelectric energy harvesters. Journal of Intelligent Material Systems and Structures, 2014, 25, 174-186.	1.4	117
60	Modeling and nonlinear dynamics of an Active-Fiber Composite energy harvester with Interdigitated Electrodes. , 2014, , .		4
61	A New Dynamical Model of Flexible Cracked Wind Turbines for Health Monitoring. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	2
62	Nonlinear Analysis of Electrically Actuated Carbon Nanotube Resonator Using a Novel Discretization Technique. Mathematical Problems in Engineering, 2013, 2013, 1-9.	0.6	5
63	Modeling and Design of an Electrically Actuated Resonant Switch. MATEC Web of Conferences, 2012, 1, 04001.	0.1	1
64	Nonlinear Dynamical analysis of an AFM tapping mode microcantilever beam. MATEC Web of Conferences, 2012, 1, 04002.	0.1	5
65	Energy harvesting from a multifrequency response of a tuned bending–torsion system. Smart Materials and Structures, 2012, 21, 075029.	1.8	45
66	An energy harvester using piezoelectric cantilever beams undergoing coupled bending–torsion vibrations. Smart Materials and Structures, 2011, 20, 115007.	1.8	160
67	A double microbeam MEMS ohmic switch forÂRF-applications with low actuation voltage. Nonlinear Dynamics, 2011, 63, 719-734.	2.7	32
68	Nonlinear dynamics of a resonant gas sensor. Nonlinear Dynamics, 2010, 59, 607-618.	2.7	67
69	Modeling and performance study of a beam microgyroscope. Journal of Sound and Vibration, 2010, 329, 4970-4979.	2.1	56
70	Nonlinear Analysis of MEMS Electrostatic Microactuators: Primary and Secondary Resonances of the First Mode*. JVC/Journal of Vibration and Control, 2010, 16, 1321-1349.	1.5	61
71	Dynamics and Global Stability of Beam-based Electrostatic Microactuators. JVC/Journal of Vibration and Control, 2010, 16, 721-748.	1.5	61
72	Modeling and Dynamics of a Horizontal Axis Wind Turbine. JVC/Journal of Vibration and Control, 2010, 16, 2001-2021.	1.5	27

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73	Novel design of MEMS ohmic RF switch with low voltage actuation. , 2009, , .		4
74	Shape improvement for piezoelectric energy harvesting applications. , 2009, , .		9
75	Nonlinear Feedback Control and Dynamics of an Electrostatically Actuated Microbeam Filter. , 2008, , .		3
76	Analysis of the Orbits of Electrostatic MEMS Resonators. , 2008, , .		1
77	Dynamics of Variable-Geometry Electrostatic Microactuators. , 2006, , 273.		2
78	Dynamic analysis of variable-geometry electrostatic microactuators. Journal of Micromechanics and Microengineering, 2006, 16, 2449-2457.	1.5	57
79	Modeling and design of variable-geometry electrostatic microactuators. Journal of Micromechanics and Microengineering, 2005, 15, 419-429.	1.5	116