

# Saber Azizi

## List of Publications by Year in descending order

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33  
papers

541  
citations

687363

13  
h-index

677142

22  
g-index

33  
all docs

33  
docs citations

33  
times ranked

465  
citing authors

#	ARTICLE	IF	CITATIONS
1	A conceptual study on the dynamics of a piezoelectric MEMS (Micro Electro Mechanical System) energy harvester. <i>Energy</i> , 2016, 96, 495-506.	8.8	53
2	Tuning the primary resonances of a micro resonator, using piezoelectric actuation. <i>Nonlinear Dynamics</i> , 2014, 76, 839-852.	5.2	50
3	Energy harvesting based on magnetostriction, for low frequency excitations. <i>Energy</i> , 2017, 124, 1-8.	8.8	43
4	Pure parametric excitation of a micro cantilever beam actuated by piezoelectric layers. <i>Applied Mathematical Modelling</i> , 2010, 34, 4196-4207.	4.2	33
5	Stabilizing the pull-in instability of an electro-statically actuated micro-beam using piezoelectric actuation. <i>Applied Mathematical Modelling</i> , 2011, 35, 4796-4815.	4.2	33
6	Application of piezoelectric actuation to regularize the chaotic response of an electrostatically actuated micro-beam. <i>Nonlinear Dynamics</i> , 2013, 73, 853-867.	5.2	31
7	Stability analysis of a parametrically excited functionally graded piezoelectric, MEM system. <i>Current Applied Physics</i> , 2012, 12, 456-466.	2.4	24
8	Thermo-elastic damping in a functionally graded piezoelectric micro-resonator. <i>International Journal of Mechanics and Materials in Design</i> , 2015, 11, 357-369.	3.0	23
9	On the dynamics of a capacitive electret-based micro-cantilever for energy harvesting. <i>Energy</i> , 2018, 153, 967-976.	8.8	23
10	On the secondary resonance of a MEMS resonator: A conceptual study based on shooting and perturbation methods. <i>International Journal of Non-Linear Mechanics</i> , 2016, 82, 59-68.	2.6	21
11	Nonlinear dynamics of a functionally graded piezoelectric micro-resonator in the vicinity of the primary resonance. <i>JVC/Journal of Vibration and Control</i> , 2017, 23, 400-413.	2.6	21
12	Parametric excitation of a piezoelectrically actuated system near Hopf bifurcation. <i>Applied Mathematical Modelling</i> , 2012, 36, 1529-1549.	4.2	20
13	On the nonlinear dynamics of a piezoelectrically tuned micro-resonator based on non-classical elasticity theories. <i>International Journal of Mechanics and Materials in Design</i> , 2018, 14, 1-19.	3.0	20
14	Size-dependent nonlinear behavior of a piezoelectrically actuated capacitive bistable microstructure. <i>International Journal of Non-Linear Mechanics</i> , 2019, 114, 49-61.	2.6	14
15	Stability and Bifurcation Analysis of an Asymmetrically Electrostatically Actuated Microbeam. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	1.2	12
16	On the dynamics of a micro-gripper subjected to electrostatic and piezoelectric excitations. <i>International Journal of Non-Linear Mechanics</i> , 2015, 77, 183-192.	2.6	12
17	Theoretical and experimental investigations of the primary and parametric resonances in repulsive force based MEMS actuators. <i>Sensors and Actuators A: Physical</i> , 2020, 303, 111635.	4.1	12
18	Sensitivity enhancement of a MEMS sensor in nonlinear regime. <i>International Journal of Mechanics and Materials in Design</i> , 2016, 12, 337-351.	3.0	11

#	ARTICLE	IF	CITATIONS
19	Nonlinear dynamics of adhesive micro-spherical particles on vibrating substrates. Journal of Adhesion Science and Technology, 2013, 27, 1712-1726.	2.6	10
20	Novel mass detection based on magnetic excitation in anti-resonance region. Microsystem Technologies, 2017, 23, 1377-1383.	2.0	10
21	On the dynamics of a novel energy harvester to convert the energy of the magnetic noise into electrical power. Energy, 2020, 207, 118268.	8.8	9
22	Mass detection based on pure parametric excitation of a micro beam actuated by piezoelectric layers. Microsystem Technologies, 2017, 23, 991-998.	2.0	8
23	Static and dynamic characterization of micro-electro-mechanical system repulsive force actuators. JVC/Journal of Vibration and Control, 2020, 26, 1216-1231.	2.6	8
24	Bifurcation analysis and nonlinear dynamics of a capacitive energy harvester in the vicinity of the primary and secondary resonances. Nonlinear Dynamics, 2022, 108, 873-886.	5.2	8
25	Bifurcation Analysis of an Electrostatically Actuated Nano-Beam Based on Modified Couple Stress Theory. Sensing and Imaging, 2017, 18, 1.	1.5	7
26	Size-dependent dynamics of a FG Nanobeam near nonlinear resonances induced by heat. Applied Mathematical Modelling, 2020, 86, 349-367.	4.2	7
27	A Case Study on the Numerical Solution and Reduced Order Model of MEMS. Sensing and Imaging, 2018, 19, 1.	1.5	6
28	Investigation of Static and Dynamic Pull-in Instability in a FGP Micro-Beam. Sensing and Imaging, 2015, 16, 1.	1.5	4
29	Doubling of rocking resonance frequency of an adhesive microparticle vibrating on a surface. Applied Physics Letters, 2012, 101, .	3.3	3
30	A novel inverse kinematics scheme for the design and fabrication of a five degree of freedom arm robot. International Journal of Dynamics and Control, 2020, 8, 604-614.	2.5	3
31	On the Nonlinear Dynamics of a Tunable Shock Micro-switch. Sensing and Imaging, 2016, 17, 1.	1.5	2
32	An Approach for Increasing Sensitivity of a Tunable Micro Electro Mechanical Sensor Using Electrostatic Hopping Voltage. Sensing and Imaging, 2019, 20, 1.	1.5	0
33	A novel remotely-controlled gripper based on magnetostrictive material. International Journal on Interactive Design and Manufacturing, 2020, 14, 667-674.	2.2	0