Amal Z Hajjaj

List of Publications by Year
in descending order

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32	694	566801	794141
papers	citations	15 h-index	19 g-index

32	32	32	342
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Mode Coupling and Nonlinear Resonances of MEMS Arch Resonators for Bandpass Filters. Scientific Reports, 2017, 7, 41820.	1.6	88
3	Tunable Resonators for Nonlinear Modal Interactions. Scientific Reports, 2016, 6, 34717.	1.6	52
4	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
5	Highly Tunable Electrothermally and Electrostatically Actuated Resonators. Journal of Microelectromechanical Systems, 2016, 25, 440-449.	1.7	43
6	A scalable pressure sensor based on an electrothermally and electrostatically operated resonator. Applied Physics Letters, 2017, 111, .	1.5	42
7	Multiple internal resonances in MEMS arch resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3393-3398.	0.9	41
8	Two-to-one internal resonance of MEMS arch resonators. International Journal of Non-Linear Mechanics, 2018, 107, 64-72.	1.4	40
9	Highly sensitive and wide-range resonant pressure sensor based on the veering phenomenon. Sensors and Actuators A: Physical, 2019, 300, 111652.	2.0	35
10	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
11	A Resonant Gas Sensor Based on Multimode Excitation of a Buckled Microbeam. IEEE Sensors Journal, 2020, 20, 1778-1785.	2.4	31
12	Electrothermally Tunable Arch Resonator. Journal of Microelectromechanical Systems, 2017, 26, 837-845.	1.7	29
13	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
14	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
15	Highly Tunable Narrow Bandpass MEMS Filter. IEEE Transactions on Electron Devices, 2017, 64, 3392-3398.	1.6	20
16	Experimental and analytical study of highly tunable electrostatically actuated resonant beams. Journal of Micromechanics and Microengineering, 2015, 25, 125015.	1.5	13
17	Electrothermally actuated tunable clamped-guided resonant microbeams. Mechanical Systems and Signal Processing, 2018, 98, 1069-1076.	4.4	13
18	Highly Tunable Electrostatic Nanomechanical Resonators. IEEE Nanotechnology Magazine, 2018, 17, 113-121.	1.1	10

#	Article	IF	Citations
19	Miniature pressure sensor based on suspended MWCNT. Sensors and Actuators A: Physical, 2019, 292, 11-16.	2.0	5
20	Experimental Investigation of 2:1 and 3:1 Internal Resonances in Nonlinear MEMS Arch Resonators. , 2016, , .		3
21	A Sensitive Resonant Gas Sensor Based on Multimode Excitation of a Buckled Beam. , 2019, , .		2
22	Electrothermally Tunable Bridge Resonator. , 2016, , .		0
23	Highly Tunable Electrothermally Actuated Arch Resonator. , 2016, , .		0
24	Effect of Initial Curvature on the Static and Dynamic Behavior of MEMS Resonators. , 2017, , .		0
25	Highly tunable NEMS shallow arches. , 2017, , .		0
26	Scalable Pressure Sensor Based on Electrothermally Operated Resonator. , 2017, , .		0
27	Experimental and Theoretical Study of Two-to-One Internal Resonance of MEMS Resonators. , 2018, , .		0
28	Electrostatically Tunable Nanomechanical Shallow Arches. , 2017, , .		0
29	Wide Range Highly Sensitive Pressure Sensor Based on Heated Micromachined Arch Beam. , 2019, , .		0
30	A Sensitive Resonant Gas Sensor Based on Multimode Excitation of a Buckled Beam. , 2019, , .		0
31	Nonlinear size-dependent modeling and dynamics of nanocrystalline arc resonators. International Journal of Mechanics and Materials in Design, 0, , 1.	1.7	0
32	Controlling Resonator Nonlinearities and Modes through Geometry Optimization. Micromachines, 2021, 12, 1381.	1.4	0