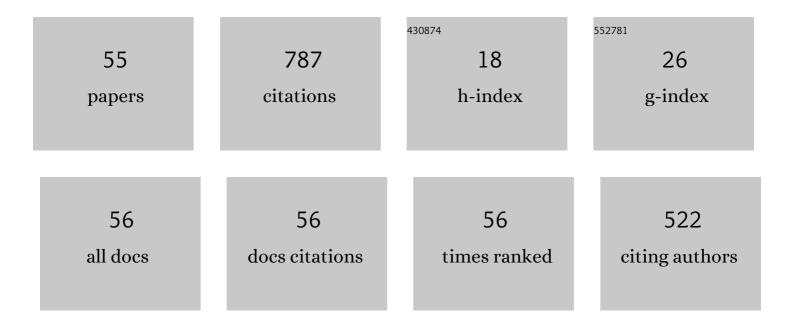
Nizar Jaber

List of Publications by Year in descending order

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NIZAD LARED

#	Article	IF	CITATIONS
1	Selective multiple analyte detection using multi-mode excitation of a MEMS resonator. Scientific Reports, 2022, 12, 5297.	3.3	12
2	High-Sensitivity Thermal Sensing Based on a Single Strain-Assisted Resonator. IEEE Sensors Journal, 2022, 22, 13921-13929.	4.7	0
3	Internal resonance in the higher-order modes of a MEMS beam: experiments and global analysis. Nonlinear Dynamics, 2021, 103, 2197-2226.	5.2	11
4	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.	2.6	18
5	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.	3.9	13
6	A Compact High-Sensitivity Temperature Sensor using an Encapsulated Clamped-Clamped Mems Beam Resonator. , 2021, , .		3
7	Controlling Resonator Nonlinearities and Modes through Geometry Optimization. Micromachines, 2021, 12, 1381.	2.9	0
8	Theoretical and experimental investigations of the crossover phenomenon in micromachined arch resonator: part ll—simultaneous 1:1 and 2:1 internal resonances. Nonlinear Dynamics, 2020, 99, 407-432.	5.2	32
9	Theoretical and experimental investigations of the crossover phenomenon in micromachined arch resonator: part l—linear problem. Nonlinear Dynamics, 2020, 99, 393-405.	5.2	25
10	Linear and nonlinear dynamics of micro and nano-resonators: Review of recent advances. International Journal of Non-Linear Mechanics, 2020, 119, 103328.	2.6	97
11	A Resonant Gas Sensor Based on Multimode Excitation of a Buckled Microbeam. IEEE Sensors Journal, 2020, 20, 1778-1785.	4.7	31
12	A Low Power Micro-Electromechanical Resonator-Based Digital to Analog Converter. Journal of Microelectromechanical Systems, 2020, 29, 320-328.	2.5	10
13	On the double resonance activation of electrostatically actuated microbeam based resonators. International Journal of Non-Linear Mechanics, 2020, 121, 103437.	2.6	7
14	Parallel Logics Using Multimode Excitation of a Single MEMS Resonator. , 2019, , .		0
15	A Sensitive Resonant Gas Sensor Based on Multimode Excitation of a Buckled Beam. , 2019, , .		2
16	Efficient Excitation of Micro/Nano Resonators and Their Higher Order Modes. Scientific Reports, 2019, 9, 319.	3.3	15
17	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.	3.0	19
18	Efficient Activation of Nanomechanical Resonators. Advanced Electronic Materials, 2019, 5, 1800356.	5.1	2

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#	Article	IF	CITATIONS
19	A Sensitive Resonant Gas Sensor Based on Multimode Excitation of a Buckled Beam. , 2019, , .		Ο
20	Resonant Gas Sensor and Switch Operating in Air With Metal-Organic Frameworks Coating. Journal of Microelectromechanical Systems, 2018, 27, 156-163.	2.5	29
21	A MEMS coupled resonator for frequency filtering in air. Mechatronics, 2018, 56, 261-267.	3.3	7
22	Simultaneous electrical and mechanical resonance drive for large signal amplification of micro resonators. AIP Advances, 2018, 8, .	1.3	13
23	Electrothermally actuated tunable clamped-guided resonant microbeams. Mechanical Systems and Signal Processing, 2018, 98, 1069-1076.	8.0	13
24	Design and Demonstration of A Compact Full Adder Using Micro-beam Resonators. , 2018, , .		5
25	Smart Gas Sensing and Actuation Using Multimode of a MOFs Coated Microbeam. , 2018, , .		1
26	An Experimental and Theoretical Investigation of Double Resonance Activation in Electrostatic MEMS Resonators. , 2018, , .		0
27	Simultaneous Sensing of Vapor Concentration and Temperature Utilizing Multimode of a MEMS Resonator. , 2018, , .		2
28	Multimode excitation of a metal organics frameworks coated microbeam for smart gas sensing and actuation. Sensors and Actuators A: Physical, 2018, 283, 254-262.	4.1	24
29	Multimode MEMS Resonator for Simultaneous Sensing of Vapor Concentration and Temperature. IEEE Sensors Journal, 2018, 18, 10145-10153.	4.7	30
30	Multiple internal resonances in MEMS arch resonators. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 3393-3398.	2.1	41
31	Multi-function and cascadable MEMS logic device. , 2017, , .		4
32	On the Nonlinear Dynamics of a Doubly Clamped Microbeam Near Primary Resonance. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	0
33	A Coupled Resonator for Highly Tunable and Amplified Mixer/Filter. IEEE Transactions on Electron Devices, 2017, 64, 2659-2664.	3.0	16
34	An Experimental and Theoretical Investigation of the Mechanical Behavior of Multilayer Initially Curved Microplates Under Electrostatic Actuation. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	6
35	MEMS Logic Using Mixed-Frequency Excitation. Journal of Microelectromechanical Systems, 2017, 26, 1140-1146.	2.5	21
36	Sensitive resonant gas sensor operating in air with metal organic frameworks coating. , 2017, , .		0

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#	Article	IF	CITATIONS
37	Smart Resonant Gas Sensor and Switch Operating in Air With Metal-Organic Frameworks Coating. , 2017, , .		Ο
38	MEMS Coupled Resonator for Filter Application in Air. , 2017, , .		0
39	An Electrically Actuated Microbeam-Based MEMS Device: Experimental and Theoretical Investigation. , 2017, , .		0
40	Dynamics of Microbeams under Multi-Frequency Excitations. Micromachines, 2017, 8, 32.	2.9	9
41	Nonlinear-Based MEMS Sensors and Active Switches for Gas Detection. Sensors, 2016, 16, 758.	3.8	46
42	Humidity Detection Using Metal Organic Framework Coated on QCM. Journal of Sensors, 2016, 2016, 1-8.	1.1	25
43	Static and Dynamic Amplification Using Strong Mechanical Coupling. , 2016, , .		0
44	Mass and Position Determination in MEMS Resonant Mass Sensors: Theoretical and Experimental Investigation. , 2016, , .		0
45	Nonlinear-Based Switch Triggered by Gas Using Electrostatically Actuated Microbeams. , 2016, , .		0
46	A smart microelectromechanical sensor and switch triggered by gas. Applied Physics Letters, 2016, 109,	3.3	39
47	Influence of squeeze film damping on the higher-order modes of clamped–clamped microbeams. Journal of Micromechanics and Microengineering, 2016, 26, 065014.	2.6	12
48	Mass and position determination in MEMS mass sensors: a theoretical and an experimental investigation. Journal of Micromechanics and Microengineering, 2016, 26, 105009.	2.6	29
49	Static and Dynamic Amplification Using Strong Mechanical Coupling. Journal of Microelectromechanical Systems, 2016, 25, 916-921.	2.5	25
50	Multifrequency excitation of a clamped–clamped microbeam: Analytical and experimental investigation. Microsystems and Nanoengineering, 2016, 2, 16002.	7.0	28
51	Wideband MEMS resonator using multifrequency excitation. Sensors and Actuators A: Physical, 2016, 242, 140-145.	4.1	20
52	Higher order modes excitation of electrostatically actuated clamped–clamped microbeams: experimental and analytical investigation. Journal of Micromechanics and Microengineering, 2016, 26, 025008.	2.6	38
53	Multifrequency Excitation of a Clamped-Clamped Microbeam. , 2015, , .		0
54	The Dynamics of a Doubly Clamped Microbeam Near the Primary Resonance: Experimental and		0

Analytical Investigation., 2015, ,.

#	Article	IF	CITATIONS
55	Towards a digital sound reconstruction MEMS device: Characterization of a single PZT based piezoelectric actuator. , 2015, , .		7