TomÃ¡s Manzaneque

List of Publications by Year
in descending order

28 papers	795 citations	567281 15 h-index	794594 19 g-index
28 all docs	28 docs citations	28 times ranked	446 citing authors

#	Article	IF	Citations
1	Piezoelectric MEMS resonator-based oscillator for density and viscosity sensing. Sensors and Actuators A: Physical, 2014, 220, 305-315.	4.1	84
2	Accurate Extraction of Large Electromechanical Coupling in Piezoelectric MEMS Resonators. Journal of Microelectromechanical Systems, 2019, 28, 209-218.	2.5	80
3	Toward Ka Band Acoustics: Lithium Niobate Asymmetrical Mode Piezoelectric MEMS Resonators. , 2018, , .		70
4	Design-dependent performance of self-actuated and self-sensing piezoelectric-AlN cantilevers in liquid media oscillating in the fundamental in-plane bending mode. Sensors and Actuators B: Chemical, 2014, 200, 235-244.	7.8	58
5	Characterization of a roof tile-shaped out-of-plane vibrational mode in aluminum-nitride-actuated self-sensing micro-resonators for liquid monitoring purposes. Applied Physics Letters, 2014, 104, .	3.3	49
6	Gigahertz Low-Loss and Wideband S0 Mode Lithium Niobate Acoustic Delay Lines. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1373-1386.	3.0	49
7	Low-Loss and Wideband Acoustic Delay Lines. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1379-1391.	4.6	40
8	Nanowatt-Level Wakeup Receiver Front Ends Using MEMS Resonators for Impedance Transformation. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1615-1627.	4.6	40
9	A Radio Frequency Nonreciprocal Network Based on Switched Acoustic Delay Lines. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1516-1530.	4.6	37
10	GHz Broadband SH0 Mode Lithium Niobate Acoustic Delay Lines. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 402-412.	3.0	35
11	Analysis of the quality factor of AlN-actuated micro-resonators in air and liquid. Microsystem Technologies, 2010, 16, 837-845.	2.0	34
12	Exploiting parallelism in resonators for large voltage gain in low power wake up radio front ends. , 2018, , .		33
13	Lithium Niobate MEMS Chirp Compressors for Near Zero Power Wake-Up Radios. Journal of Microelectromechanical Systems, 2017, 26, 1204-1215.	2.5	30
14	Lithium Niobate Phononic Crystals for Tailoring Performance of RF Laterally Vibrating Devices. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 934-944.	3.0	26
15	RF Filters with Periodic Passbands for Sparse Fourier Transform-Based Spectrum Sensing. Journal of Microelectromechanical Systems, 2018, 27, 931-944.	2.5	25
16	An SH0 lithium niobate correlator for orthogonal frequency coded spread spectrum communications. , 2017, , .		17
17	Viscous and acoustic losses in length-extensional microplate resonators in liquid media. Applied Physics Letters, 2015, 106, .	3.3	16
18	Low Phase Noise RF Oscillators Based on Thin-Film Lithium Niobate Acoustic Delay Lines. Journal of Microelectromechanical Systems, 2020, 29, 129-131.	2.5	15

#	Article	IF	Citations
19	A passive 461 MHz AlN-CMOS RF front-end for event-driven wakeup receivers. , 2017, , .		13
20	An SH0 Lithium Niobate dispersive delay line for chirp compression-enabled low power radios. , 2017, , .		12
21	Control of MEMS Vibration Modes With Pulsed Digital Oscillatorsâ€"Part II: Simulation and Experimental Results. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1879-1890.	5.4	10
22	Piezoelectric in-plane microplate resonators based on contour and flexure-actuated modes. Microsystem Technologies, 2014, 20, 691-699.	2.0	5
23	Method to Determine the Closed-Loop Precision of Resonant Sensors From Open-Loop Measurements. IEEE Sensors Journal, 2020, 20, 14262-14272.	4.7	5
24	Thin-Film Lithium Niobate Acoustic Delay Line Oscillators. , 2020, , .		4
25	Multimodal characterisation of highâ€•Q piezoelectric microâ€tuning forks. IET Circuits, Devices and Systems, 2013, 7, 361-367.	1.4	3
26	A Radio Frequency Non-Reciprocal Network Based on Switched Low-Loss Acoustic Delay Lines. , 2018, , .		2
27	A Radio Frequency Comb Filter for Sparse Fourier Transform-Based Spectrum Sensing. , 2018, , .		2
28	Quality factor enhancement for resonant MEMS applying an analogue feedback circuit driven by a lock-in amplifier. , 2013, , .		1