

Mohammad Mahdavi

List of Publications by Year in descending order

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129
citing authors

#	ARTICLE	IF	CITATIONS
1	Q Control of an AFM Microcantilever With Double-Stack AlN Sensors and Actuators. IEEE Sensors Journal, 2022, 22, 3957-3964.	4.7	8
2	High resolution atomic force microscopy with an active piezoelectric microcantilever. Review of Scientific Instruments, 2022, 93, .	1.3	5
3	Modal Actuation and Sensing With an Active AFM Cantilever. IEEE Sensors Journal, 2021, 21, 8950-8959.	4.7	7
4	Active Microcantilevers for Dynamic Mode Atomic Force Microscopy. , 2021, , .		0
5	SOI-MEMS Bulk Piezoresistive Displacement Sensor: A Comparative Study of Readout Circuits. Journal of Microelectromechanical Systems, 2020, 29, 43-53.	2.5	5
6	AFM Microcantilever With a Collocated AlN Sensor-Actuator Pair: Enabling Efficient Q-Control for Dynamic Imaging. Journal of Microelectromechanical Systems, 2020, 29, 661-668.	2.5	7
7	FPGA-Based Characterization and Q-Control of an Active AFM Cantilever. , 2020, , .		4
8	High Dynamic Range AFM Cantilever With a Collocated Piezoelectric Actuator-Sensor Pair. Journal of Microelectromechanical Systems, 2020, 29, 260-267.	2.5	13
9	A High Dynamic Range AFM Probe with Collocated Piezoelectric Transducer Pairs. , 2020, , .		6
10	Thin Film Piezoelectric-on-Silicon Elliptical Resonators With Low Liquid Phase Motional Resistances. IEEE Sensors Journal, 2019, 19, 113-120.	4.7	9
11	Micro-Resonator-on-Membrane for Real-Time Biosensing. , 2018, , .		0
12	Highly parallel scanning tunneling microscope based hydrogen depassivation lithography. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2018, 36, .	1.2	11
13	Microresonator-on-Membrane for Real-Time Mass Sensing in Liquid Phase. , 2018, 2, 1-4.		4
14	Nano-precision micromachined frequency output profilometer. , 2016, , .		3
15	Nanoelectromechanical resonant narrow-band amplifiers. Microsystems and Nanoengineering, 2016, 2, 16004.	7.0	25
16	Frequency output MEMS resonator on membrane pressure sensors. , 2016, , .		3
17	MEMS resonant sensors for real-time thin film shear stress monitoring. , 2016, , .		3
18	Ultra sensitive lorentz force MEMS magnetometer with pico-tesla limit of detection. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
19	SNR improvement in amplitude modulated resonant MEMS sensors via thermal-piezoresistive internal amplification. , 2015, , .		4
20	Piezoelectric resonant MEMS balances with high liquid phase Q. , 2014, , .		7