

Abhinav Prasad

List of Publications by Year in descending order

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17
papers

152
citations

1478505

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times ranked

235
citing authors

#	ARTICLE	IF	CITATIONS
1	A Simulation Study of the Temperature Sensitivity and Impact of Fabrication Tolerances on the Performance of a Geometric Anti-Spring Based MEMS Gravimeter. , 2022, , .		1
2	Solution-Processed High-Performance ZnO Nano-FETs Fabricated with Direct-Write Electron-Beam-Lithography-Based Top-Down Route. Advanced Electronic Materials, 2021, 7, 2000978.	5.1	5
3	The NEWTON-g Gravity Imager: Toward New Paradigms for Terrain Gravimetry. Frontiers in Earth Science, 2020, 8, .	1.8	26
4	Detection of heart-type fatty acid-binding protein (h-FABP) using piezoresistive polymer microcantilevers functionalized by a dry method. Applied Nanoscience (Switzerland), 2018, 8, 1031-1042.	3.1	16
5	A Portable MEMS Gravimeter for the Detection of the Earth Tides. , 2018, , .		8
6	MEMS gravity sensors for imaging density anomalies. , 2018, , .		1
7	Detection of phase transition in polyethylene glycol using a multimodal micromechanical acoustic resonator. Applied Physics Letters, 2017, 110, 134101.	3.3	4
8	Particulate mass sensing with piezoelectric bulk acoustic mode resonators. , 2016, , .		11
9	Quantifying Measurement Fluctuations from Stochastic Surface Processes on Sensors with Heterogeneous Sensitivity. Physical Review Applied, 2016, 5, .	3.8	4
10	Simultaneous interrogation of high-Q modes in a piezoelectric-on-silicon micromechanical resonator. Sensors and Actuators A: Physical, 2016, 238, 207-214.	4.1	18
11	Characterization of mechanical properties of materials using ultrasound broadband spectroscopy. Ultrasonics, 2016, 64, 186-195.	3.9	14
12	Micromechanical piezoelectric-on-silicon BAW resonators for sensing in liquid environments. , 2015, , .		3
13	Effects of spatial sensitivity on mass sensing with bulk acoustic mode resonators. Sensors and Actuators A: Physical, 2015, 236, 369-379.	4.1	13
14	Investigating biomechanical noise in neuroblastoma cells using the quartz crystal microbalance. Journal of the Royal Society Interface, 2015, 12, 20141389.	3.4	1
15	Monitoring sessile droplet evaporation on a micromechanical device. Analyst, The, 2014, 139, 5538-5546.	3.5	22
16	High-frequency piezoelectric-on-Si MEMS resonator and numerical method for parameter extraction. , 2014, , .		1
17	Studying particulate adsorption by drying droplets on a microfabricated electro-acoustic resonator. , 2014, , .		3