

Varun Kumar

List of Publications by Year in descending order

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23
papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Power CMOS-MEMS Vibration Spectrum Analyzer. , 2018, , .		1
2	Resonant piezoresistive amplifiers: Towards single element nano-mechanical RF front ends. , 2017, , .		3
3	A 3-bit digitally operated MEMS rotational accelerometer. , 2017, , .		0
4	Inertial Impaction on MEMS Balance Chips for Real-Time Air Quality Monitoring. IEEE Sensors Journal, 2017, 17, 2329-2337.	4.7	24
5	Sensitivity Enhancement of a Lorentz Force MEMS Magnetometer With Frequency Modulated Output. Journal of Microelectromechanical Systems, 2017, 26, 870-878.	2.5	10
6	Chip-Scale Implementation and Cascade Assembly of Particulate Matter Collectors With Embedded Resonant Mass Balances. IEEE Sensors Journal, 2017, 17, 1617-1625.	4.7	19
7	Nano-precision micromachined frequency output profilometer. , 2016, , .		3
8	Frequency modulated electrostatically coupled resonators for sensing applications. , 2016, , .		3
9	Frequency output MEMS resonator on membrane pressure sensors. , 2016, , .		3
10	Ultra-low power self-computing binary output digital MEMS accelerometer. , 2016, , .		3
11	Lorentz force MEMS magnetometer with frequency modulated output. , 2016, , .		5
12	Microelectromechanical Parallel Scanning Nanoprobes for Nanolithography. IEEE Nanotechnology Magazine, 2016, 15, 457-464.	2.0	2
13	Amplitude modulated Lorentz force MEMS magnetometer with picotesla sensitivity. Journal of Micromechanics and Microengineering, 2016, 26, 105021.	2.6	28
14	Ultra-Low Power Digitally Operated Tunable MEMS Accelerometer. IEEE Sensors Journal, 2016, 16, 8715-8721.	4.7	21
15	A tunable digitally operated MEMS accelerometer. , 2015, , .		4
16	Ultra sensitive lorentz force MEMS magnetometer with pico-tesla limit of detection. , 2015, , .		7
17	SNR improvement in amplitude modulated resonant MEMS sensors via thermal-piezoresistive internal amplification. , 2015, , .		4
18	Single-mask field emission based tunable MEMS tunneling accelerometer. , 2015, , .		7

#	ARTICLE	IF	CITATIONS
19	Single-mask field emission based tunable MEMS tunneling accelerometer. , 2015, , .		1
20	High-Q Lorentz force MEMS magnetometer with internal self-amplification. , 2014, , .		4
21	An ultra high-Q micromechanical in-plane tuning fork. , 2014, , .		4
22	Sensitivity Enhancement of Lorentz Force MEMS Resonant Magnetometers via Internal Thermal-Piezoresistive Amplification. IEEE Electron Device Letters, 2014, 35, 268-270.	3.9	34
23	A two-stage aerosol impactor with embedded MEMS resonant mass balances for particulate size segregation and mass concentration monitoring. , 2013, , .		12