

# Varun Kumar

## List of Publications by Year in descending order

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23  
papers

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citations

1478505

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1720034

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docs citations

23  
times ranked

222  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity Enhancement of Lorentz Force MEMS Resonant Magnetometers via Internal Thermal-Piezoresistive Amplification. IEEE Electron Device Letters, 2014, 35, 268-270.	3.9	34
2	Amplitude modulated Lorentz force MEMS magnetometer with picotesla sensitivity. Journal of Micromechanics and Microengineering, 2016, 26, 105021.	2.6	28
3	Inertial Impaction on MEMS Balance Chips for Real-Time Air Quality Monitoring. IEEE Sensors Journal, 2017, 17, 2329-2337.	4.7	24
4	Ultra-Low Power Digitally Operated Tunable MEMS Accelerometer. IEEE Sensors Journal, 2016, 16, 8715-8721.	4.7	21
5	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
6	A two-stage aerosol impactor with embedded MEMS resonant mass balances for particulate size segregation and mass concentration monitoring. , 2013, , .		12
7	Sensitivity Enhancement of a Lorentz Force MEMS Magnetometer With Frequency Modulated Output. Journal of Microelectromechanical Systems, 2017, 26, 870-878.	2.5	10
8	Ultra sensitive lorentz force MEMS magnetometer with pico-tesla limit of detection. , 2015, , .		7
9	Single-mask field emission based tunable MEMS tunneling accelerometer. , 2015, , .		7
10	Lorentz force MEMS magnetometer with frequency modulated output. , 2016, , .		5
11	High-Q Lorentz force MEMS magnetometer with internal self-amplification. , 2014, , .		4
12	An ultra high-Q micromechanical in-plane tuning fork. , 2014, , .		4
13	A tunable digitally operated MEMS accelerometer. , 2015, , .		4
14	SNR improvement in amplitude modulated resonant MEMS sensors via thermal-piezoresistive internal amplification. , 2015, , .		4
15	Nano-precision micromachined frequency output profilometer. , 2016, , .		3
16	Frequency modulated electrostatically coupled resonators for sensing applications. , 2016, , .		3
17	Frequency output MEMS resonator on membrane pressure sensors. , 2016, , .		3
18	Ultra-low power self-computing binary output digital MEMS accelerometer. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
19	Resonant piezoresistive amplifiers: Towards single element nano-mechanical RF front ends. , 2017, , .		3
20	Microelectromechanical Parallel Scanning Nanoprobes for Nanolithography. IEEE Nanotechnology Magazine, 2016, 15, 457-464.	2.0	2
21	Single-mask field emission based tunable MEMS tunneling accelerometer. , 2015, , .		1
22	A Low-Power CMOS-MEMS Vibration Spectrum Analyzer. , 2018, , .		1
23	A 3-bit digitally operated MEMS rotational accelerometer. , 2017, , .		0