

Benyamin Davaji

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

26

papers

226

citations

6

h-index

14

g-index

46

ext. papers

324

ext. citations

5

avg, IF

3.29

L-index

#	Paper	IF	Citations
26	Polymer interdigitated pillar electrostatic (PIPE) actuators.. <i>Microsystems and Nanoengineering</i> , 2022 , 8, 18	7.7	1
25	Biological small-molecule assays using gradient-based microfluidics. <i>Biosensors and Bioelectronics</i> , 2021 , 178, 113038	11.8	4
24	Gradient-Based Microfluidic Platform for One Single Rapid Antimicrobial Susceptibility Testing. <i>ACS Sensors</i> , 2021 , 6, 1560-1571	9.2	1
23	Temperature-dependent Lowering of Coercive Field in 300 nm Sputtered Ferroelectric Al _{0.70} Sc _{0.30} N 2021 ,		4
22	Towards Realizing the Low-Coercive Field Operation of Sputtered Ferroelectric Sc _x Al _{1-x} N 2021 ,		3
21	Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 5009-5022	10.7	1
20	3D Printed Pyroelectric Lithium-Niobate High Voltages Source with Pull-in Regulated Output 2020 ,		2
19	Characterization of AlScN on CMOS 2020 ,		2
18	Sputtered AlN Lateral Bimorph: Process Integration Challenges and Opportunities 2020 ,		2
17	Microscale direct measurement of localized photothermal heating in tissue-mimetic hydrogels. <i>Scientific Reports</i> , 2019 , 9, 6546	4.9	6
16	NEMS Electrostatic Resonant Near-Zero Power Resistive Contact RF Wake-Up Switch with PT FIB Contact 2019 ,		1
15	Omnidirectional low frequency energy harvester for wearable applications. <i>Journal of Physics: Conference Series</i> , 2019 , 1407, 012122	0.3	1
14	Zero Power, Tunable Resonant Microphone with Nanowatt Classifier for Wake-Up Sensing 2018 ,		4
13	Optimization of the Bowtie Gap Geometry for a Maximum Electric Field Enhancement. <i>Plasmonics</i> , 2017 , 12, 287-292	2.4	4
12	Zero-power sensors with near-zero-power wakeup switches for reliable sensor platforms 2017 ,		14
11	3-axis MEMS gyroscope calibration stage: Magnetic actuation enabled out-of-plane dither for piezoelectric in-plane calibration 2017 ,		3
10	On-chip detection of gel transition temperature using a novel micro-thermomechanical method. <i>PLoS ONE</i> , 2017 , 12, e0183492	3.7	3

9	A patterned single layer graphene resistance temperature sensor. <i>Scientific Reports</i> , 2017 , 7, 8811	4.9	75
8	PZT lateral bimorph based sensor cuboid for near zero power sensor nodes 2017 ,		6
7	Vibration Powered RF-Transponder for Sensing Low Frequency Motion Events. <i>Journal of Physics: Conference Series</i> , 2016 , 773, 012034	0.3	7
6	Thermal Measurement Techniques in Analytical Microfluidic Devices. <i>Journal of Visualized Experiments</i> , 2015 , e52828	1.6	3
5	In-vivo single cell protein interaction investigation using microfluidic platform 2015 ,		3
4	A paper-based calorimetric microfluidics platform for bio-chemical sensing. <i>Biosensors and Bioelectronics</i> , 2014 , 59, 120-6	11.8	45
3	A novel on-chip three-dimensional micromachined calorimeter with fully enclosed and suspended thin-film chamber for thermal characterization of liquid samples. <i>Biomicrofluidics</i> , 2014 , 8, 034101	3.2	17
2	A microfluidic device for thermal particle detection. <i>Microfluidics and Nanofluidics</i> , 2014 , 17, 871-878	2.8	11
1	Biomimetic MEMS to assist, enhance, and expand human sensory perceptions: a survey on state-of-the-art developments 2011 ,		1