

Benyamin Davaji

List of Publications by Year in descending order

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46
papers

387
citations

1162889

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940416

16
g-index

46
all docs

46
docs citations

46
times ranked

503
citing authors

#	ARTICLE	IF	CITATIONS
1	A patterned single layer graphene resistance temperature sensor. Scientific Reports, 2017, 7, 8811.	1.6	117
2	A paper-based calorimetric microfluidics platform for bio-chemical sensing. Biosensors and Bioelectronics, 2014, 59, 120-126.	5.3	53
3	Zero-power sensors with near-zero-power wakeup switches for reliable sensor platforms. , 2017, , .		25
4	A novel on-chip three-dimensional micromachined calorimeter with fully enclosed and suspended thin-film chamber for thermal characterization of liquid samples. Biomicrofluidics, 2014, 8, 034101.	1.2	19
5	Gradient-Based Microfluidic Platform for One Single Rapid Antimicrobial Susceptibility Testing. ACS Sensors, 2021, 6, 1560-1571.	4.0	14
6	A microfluidic device for thermal particle detection. Microfluidics and Nanofluidics, 2014, 17, 871-878.	1.0	13
7	Microscale direct measurement of localized photothermal heating in tissue-mimetic hydrogels. Scientific Reports, 2019, 9, 6546.	1.6	11
8	Towards Realizing the Low-Coercive Field Operation of Sputtered Ferroelectric ScxAl1-xN. , 2021, , .		11
9	Temperature-dependent Lowering of Coercive Field in 300 nm Sputtered Ferroelectric Al _{0.70} Sc _{0.30} N. , 2021, , .		10
10	Biological small-molecule assays using gradient-based microfluidics. Biosensors and Bioelectronics, 2021, 178, 113038.	5.3	9
11	Polymer interdigitated pillar electrostatic (PIPE) actuators. Microsystems and Nanoengineering, 2022, 8, 18.	3.4	8
12	Vibration Powered RF-Transponder for Sensing Low Frequency Motion Events. Journal of Physics: Conference Series, 2016, 773, 012034.	0.3	7
13	PZT lateral bimorph based sensor cuboid for near zero power sensor nodes. , 2017, , .		7
14	Planar Lens for GHz Fourier Ultrasonics. , 2020, , .		7
15	Zero Power, Tunable Resonant Microphone with Nanowatt Classifier for Wake-Up Sensing. , 2018, , .		6
16	Thermal Measurement Techniques in Analytical Microfluidic Devices. Journal of Visualized Experiments, 2015, , e52828.	0.2	5
17	Optimization of the Bowtie Gap Geometry for a Maximum Electric Field Enhancement. Plasmonics, 2017, 12, 287-292.	1.8	5
18	3-axis MEMS gyroscope calibration stage: Magnetic actuation enabled out-of-plane dither for piezoelectric in-plane calibration. , 2017, , .		5

#	ARTICLE	IF	CITATIONS
19	Focusing Profiles of Planar Si-SiO ₂ Metamaterial GHz Frequency Ultrasonic Lens. , 2021, , .		5
20	Characterization of AlScN on CMOS. , 2020, , .		4
21	Biomimetic MEMS to assist, enhance, and expand human sensory perceptions: a survey on state-of-the-art developments. , 2011, , .		3
22	In-vivo single cell protein interaction investigation using microfluidic platform. , 2015, , .		3
23	Characterization of graphene electrodes as piezoresistive SAW transducers. , 2017, , .		3
24	On-chip detection of gel transition temperature using a novel micro-thermomechanical method. PLoS ONE, 2017, 12, e0183492.	1.1	3
25	NEMS Electrostatic Resonant Near-Zero Power Resistive Contact RF Wake-Up Switch with PT FIB Contact. , 2019, , .		3
26	High-Overtone Bulk Diffraction Wave Gyroscope. , 2019, , .		3
27	3D Printed Pyroelectric Lithium-Niobate High Voltages Source with Pull-in Regulated Output. , 2020, , .		3
28	Hybrid PZT Lateral Bimorphs and 3-D-Printed Spring-Mass Resonators for Batteryless RF Transmission and Vibration Identification. IEEE Internet of Things Journal, 2021, 8, 5009-5022.	5.5	3
29	Non-contact ultrasound oocyte denudation. Lab on A Chip, 2022, 22, 777-792.	3.1	3
30	Towards a surface and bulk excited SAW gyroscope. , 2017, , .		2
31	Characterization of graphene electrodes as piezoresistive SAW transducers. , 2017, , .		2
32	Coexisting Surface and Bulk Gyroscopic Effects. , 2018, , .		2
33	Piezoresistive Graphene SAW Transducer. , 2018, , .		2
34	Towards Digitally Controlled Ultrasonic IQ Modulator. , 2019, , .		2
35	Omnidirectional low frequency energy harvester for wearable applications. Journal of Physics: Conference Series, 2019, 1407, 012122.	0.3	2
36	Sputtered AlN Lateral Bimorph: Process Integration Challenges and Opportunities. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
37	Deep Learning for Predicting CD-SEMS of NEMS Devices. , 2022, , .		2
38	New challenges on leakage current improvement in tunnel FET by using low-k oxide. , 2009, , .		1
39	AN EXPEDITED AND SAFE OOCYTE DENUDATION SYSTEM BASED ON SOUNDWAVES IN A MICROFLUIDIC CHIP. Fertility and Sterility, 2021, 116, e152-e153.	0.5	1
40	Laser-Induced Graphene Pressure Sensors Manufactured via Inkjet PCB Printer : Locally Producing Super-Sensitive and Cost-Effective Circular Diaphragm Pressure Gauges. , 2022, , .		1
41	Implementation of light activated opening switch in Silvaco. , 2009, , .		0
42	A numerical study of silicon opening process. , 2009, , .		0
43	Issues and challenges in microfluidic research studies. , 2012, , .		0
44	Towards a surface and bulk excited SAW gyroscope. , 2017, , .		0
45	Investigation of Scale Factor versus Frequency for a Bulk Wave Diffraction Gyroscope. , 2019, , .		0
46	A Kirigami MEMS Velocity Acoustic Transducer. , 2021, , .		0