

# Ioana Voiculescu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3434447/publications.pdf>

Version: 2024-02-01

28  
papers

555  
citations

840585

11  
h-index

752573

20  
g-index

28  
all docs

28  
docs citations

28  
times ranked

873  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic wave based MEMS devices for biosensing applications. Biosensors and Bioelectronics, 2012, 33, 1-9.	5.3	180
2	Microfabricated chemical preconcentrators for gas-phase microanalytical detection systems. TrAC - Trends in Analytical Chemistry, 2008, 27, 327-343.	5.8	63
3	Evaluation of bimaterial cantilever beam for heat sensing at atmospheric pressure. Review of Scientific Instruments, 2010, 81, 055104.	0.6	46
4	The influence of the electrode dimension on the detection sensitivity of electric cellâ€‘substrate impedance sensing (ECIS) and its mathematical modeling. Sensors and Actuators B: Chemical, 2017, 247, 780-790.	4.0	40
5	Cantilever beam temperature sensors for biological applications. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 153-160.	0.8	33
6	A Novel Cell-Based Hybrid Acoustic Wave Biosensor with Impedimetric Sensing Capabilities. Sensors, 2013, 13, 3039-3055.	2.1	29
7	Study of long-term viability of endothelial cells for lab-on-a-chip devices. Sensors and Actuators B: Chemical, 2013, 182, 696-705.	4.0	27
8	Stretchable impedance sensor for mammalian cell proliferation measurements. Lab on A Chip, 2017, 17, 2054-2066.	3.1	24
9	Toxicity studies using mammalian cells and impedance spectroscopy method. Sensing and Bio-Sensing Research, 2015, 3, 112-121.	2.2	19
10	Low Cost and Highâ€‘Aspect Ratio Micro/Nano Device Fabrication by Using Innovative Metalâ€‘Assisted Chemical Etching Method. Advanced Engineering Materials, 2019, 21, 1900490.	1.6	19
11	Stretchable Piezoelectric Power Generators Based on ZnO Thin Films on Elastic Substrates. Micromachines, 2019, 10, 661.	1.4	12
12	Modeling and development of screen-printed impedance biosensor for cytotoxicity studies of lung carcinoma cells. Medical and Biological Engineering and Computing, 2018, 56, 173-181.	1.6	11
13	Nano and Microsensors for Mammalian Cell Studies. Micromachines, 2018, 9, 439.	1.4	10
14	Micro-hotplate based temperature stabilization system for CMOS SAW resonators. Microsystem Technologies, 2009, 15, 1187-1193.	1.2	9
15	Impedance Spectroscopy of Adherent Mammalian Cell Culture for Biochemical Applications: A Review. IEEE Sensors Journal, 2021, 21, 5612-5627.	2.4	9
16	Surface Acoustic Wave (SAW) Sensors for Cryogenic Temperature and Strain Sensing. , 2018, , .		5
17	Love mode surface acoustic wave and impedance sensors for water toxicity sensing. Environmental Progress and Sustainable Energy, 2018, 37, 172-179.	1.3	4
18	Screen Printed Electromechanical Micro-total Analysis System (Î¼tas) for Sensitive and Rapid Detection of Infectious Diseases. Procedia Technology, 2017, 27, 100-101.	1.1	3

#	ARTICLE	IF	CITATIONS
19	Pico-thermogravimetric material properties analysis using diamond cantilever beam. Sensors and Actuators A: Physical, 2018, 271, 356-363.	2.0	3
20	MEMS biosensor for monitoring water toxicity based on quartz crystal microbalance. Biointerphases, 2020, 15, 021006.	0.6	3
21	Simulation of a surface transverse wave biosensor for DF-1 cells. , 2010, , .		2
22	Design and modelling of an impedance-based MEMS biosensor. , 2011, , .		2
23	Printed circuit board cultureware for analysis of colorectal carcinoma cells using impedance spectroscopy. , 2012, , .		1
24	Nanoengineered nanochannels for thermally ionic nanofluidic energy harvesting. Energy Conversion and Management, 2022, 264, 115760.	4.4	1
25	Design and fabrication of Surface Acoustic Wave resonators on Lithium Niobate. , 2010, , .		0
26	Chemical sensors fabricated in CMOS-MEMS technology. , 2010, , .		0
27	Water toxicity detection using cell-based hybrid biosensors. , 2013, , .		0
28	Pico-thermogravimetric material properties analysis using diamond cantilever beam. , 2017, , .		0