

# Mehdi Javanmard

## List of Publications by Citations

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37  
papers

561  
citations

14  
h-index

22  
g-index

43  
ext. papers

740  
ext. citations

6  
avg, IF

4.25  
L-index

#	Paper	IF	Citations
37	Digital microfluidic assay for protein detection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 2110-5	11.5	92
36	Microfluidic diagnostic tool for the developing world: contactless impedance flow cytometry. <i>Lab on A Chip</i> , <b>2012</b> , 12, 4499-507	7.2	50
35	A Review of Medication Adherence Monitoring Technologies. <i>Applied System Innovation</i> , <b>2018</b> , 1, 14	2.4	49
34	Toward point-of-care management of chronic respiratory conditions: Electrochemical sensing of nitrite content in exhaled breath condensate using reduced graphene oxide. <i>Microsystems and Nanoengineering</i> , <b>2017</b> , 3, 17022	7.7	45
33	Fully integrated wearable impedance cytometry platform on flexible circuit board with online smartphone readout. <i>Microsystems and Nanoengineering</i> , <b>2018</b> , 4, 20	7.7	28
32	Toward point-of-care assessment of patient response: a portable tool for rapidly assessing cancer drug efficacy using multifrequency impedance cytometry and supervised machine learning. <i>Microsystems and Nanoengineering</i> , <b>2019</b> , 5, 34	7.7	28
31	Electrical detection of protein biomarkers using bioactivated microfluidic channels. <i>Lab on A Chip</i> , <b>2009</b> , 9, 1429-34	7.2	27
30	Tunable control of antibody immobilization using electric field. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 1995-9	11.5	26
29	A portable battery powered microfluidic impedance cytometer with smartphone readout: towards personal health monitoring. <i>Biomedical Microdevices</i> , <b>2017</b> , 19, 36	3.7	23
28	Robust dipstick urinalysis using a low-cost, micro-volume slipping manifold and mobile phone platform. <i>Lab on A Chip</i> , <b>2016</b> , 16, 2069-78	7.2	19
27	Top-down fabrication meets bottom-up synthesis for nanoelectronic barcoding of microparticles. <i>Lab on A Chip</i> , <b>2017</b> , 17, 1939-1947	7.2	18
26	Portable Cytometry Using Microscale Electronic Sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 224, 275-281	8.5	15
25	Processing gain and noise in multi-electrode impedance cytometers: Comprehensive electrical design methodology and characterization. <i>Sensors and Actuators B: Chemical</i> , <b>2017</b> , 241, 672-680	8.5	15
24	Magnetically Actuated Microfluidic Transistors: Miniaturized Micro-Valves Using Magnetorheological Fluids Integrated With Elastomeric Membranes. <i>Journal of Microelectromechanical Systems</i> , <b>2016</b> , 25, 922-928	2.5	14
23	Rapid Assessment of Surface Markers on Cancer Cells Using Immuno-Magnetic Separation and Multi-frequency Impedance Cytometry for Targeted Therapy. <i>Scientific Reports</i> , <b>2020</b> , 10, 3015	4.9	12
22	Potential Microfluidic Devices for COVID-19 Antibody Detection at Point-of-Care (POC): A Review. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 4007-4017	4	12
21	Electronic classification of barcoded particles for multiplexed detection using supervised machine learning analysis. <i>Talanta</i> , <b>2020</b> , 215, 120791	6.2	10

20	PicoMolar level detection of protein biomarkers based on electronic sizing of bead aggregates: theoretical and experimental considerations. <i>Biomedical Microdevices</i> , <b>2015</b> , 17, 119	3.7	9
19	Multiplexed actuation using ultra dielectrophoresis for proteomics applications: a comprehensive electrical and electrothermal design methodology. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2105-14	7.2	8
18	Electronically actuated microfluidic valves with zero static-power consumption using electropermanent magnets. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 296, 316-323	3.9	7
17	Electrical impedance as an indicator of microalgal cell health. <i>Scientific Reports</i> , <b>2020</b> , 10, 1251	4.9	7
16	Towards low-power wearable wireless sensors for molecular biomarker and physiological signal monitoring <b>2017</b> ,		7
15	TSC: Trustworthy and Scalable Cytometry <b>2015</b> ,		6
14	Multi-frequency impedance sensing for detection and sizing of DNA fragments. <i>Scientific Reports</i> , <b>2021</b> , 11, 6490	4.9	4
13	Multielectrode Sensing for Extraction of Signal From Noise in Impedance Cytometry. <i>IEEE Sensors Journal</i> , <b>2015</b> , 1-1	4	3
12	Multiwell Plate Impedance Analysis of a Nanowell Array Sensor for Label-Free Detection of Cytokines in Mouse Serum <b>2020</b> , 4, 1-4		3
11	A ten-minute, single step, label-free, sample-to-answer assay for qualitative detection of cytokines in serum at femtomolar levels. <i>Biomedical Microdevices</i> , <b>2020</b> , 22, 73	3.7	3
10	Improved Precision in Surface-Enhanced Raman Scattering Quantification of Analyte through Dual-Modality Multisite Sensing. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 4323-4330	7.8	3
9	Functionalization of hybrid surface microparticles for in vitro cellular antigen classification. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 555-564	4.4	3
8	Secure Point-of-Care Medical Diagnostics via Trusted Sensing and Cyto-Coded Passwords <b>2016</b> ,		2
7	2D Magnetic Sensor Array for Real-time Cell Tracking and Multi-site Detection with Increased Robustness and Flow-rate <b>2019</b> ,		2
6	Compact and automated particle counting platform using smartphone-microscopy. <i>Talanta</i> , <b>2021</b> , 228, 122244	6.2	2
5	Cytocoded passwords: BioMEMS based barcoding of biological samples for user authentication in microfluidic diagnostic devices. <i>Biomedical Microdevices</i> , <b>2018</b> , 20, 63	3.7	1
4	A microwell-based impedance sensor on an insertable microneedle for real-time in vivo cytokine detection.. <i>Microsystems and Nanoengineering</i> , <b>2021</b> , 7, 96	7.7	1
3	Towards In-Situ Environmental Monitoring: On-Chip Sample Preparation and Detection of Lead in Sediment Samples Using Graphene Oxide Sensor. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 13787-13795	4	1

2 Electrochemical Detection of Nucleic Acids Using Graphene-Based Electrodes **2018**, 2, 1-4 1

1 Electronic Quantification of Protein Biomarkers Based on Bead Aggregate Sizing. *IEEE Sensors Journal*, **2015**, 15, 6763-6764 4