

# Ana Isabel Barbosa

## List of Publications by Citations

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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.

18  
papers

529  
citations

10  
h-index

18  
g-index

18  
ext. papers

621  
ext. citations

6.1  
avg, IF

4.22  
L-index

#	Paper	IF	Citations
18	Portable smartphone quantitation of prostate specific antigen (PSA) in a fluoropolymer microfluidic device. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 70, 5-14	11.8	176
17	Skin-Integrated Wearable Systems and Implantable Biosensors: A Comprehensive Review. <i>Biosensors</i> , <b>2020</b> , 10,	5.9	60
16	A critical insight into the development pipeline of microfluidic immunoassay devices for the sensitive quantitation of protein biomarkers at the point of care. <i>Analyst, The</i> , <b>2017</b> , 142, 858-882	5	59
15	3D biosensors in advanced medical diagnostics of high mortality diseases. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 130, 20-39	11.8	54
14	A lab-in-a-briefcase for rapid prostate specific antigen (PSA) screening from whole blood. <i>Lab on A Chip</i> , <b>2014</b> , 14, 2918-28	7.2	48
13	Multiplexed femtomolar quantitation of human cytokines in a fluoropolymer microcapillary film. <i>Analyst, The</i> , <b>2015</b> , 140, 5609-18	5	31
12	Covalent immobilisation of antibodies in Teflon-FEP microfluidic devices for the sensitive quantification of clinically relevant protein biomarkers. <i>Analyst, The</i> , <b>2017</b> , 142, 959-968	5	26
11	Development of label-free plasmonic Au-TiO thin film immunosensor devices. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 424-432	8.3	19
10	Towards One-Step Quantitation of Prostate-Specific Antigen (PSA) in Microfluidic Devices: Feasibility of Optical Detection with Nanoparticle Labels. <i>BioNanoScience</i> , <b>2017</b> , 7, 718-726	3.4	19
9	Sensitive optical detection of clinically relevant biomarkers in affordable microfluidic devices: Overcoming substrate diffusion limitations. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 258, 313-320	8.5	12
8	The observation and evaluation of extensional filament deformation and breakup profiles for Non Newtonian fluids using a high strain rate double piston apparatus. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2017</b> , 239, 13-27	2.7	8
7	Transparent, Hydrophobic Fluorinated Ethylene Propylene Offers Rapid, Robust, and Irreversible Passive Adsorption of Diagnostic Antibodies for Sensitive Optical Biosensing.. <i>ACS Applied Bio Materials</i> , <b>2019</b> , 2, 2780-2790	4.1	5
6	An Outlook on Implantable Biosensors for Personalized Medicine. <i>Engineering</i> , <b>2021</b> , 7, 1696-1696	9.7	4
5	Antibody Surface Coverage Drives Matrix Interference in Microfluidic Capillary Immunoassays. <i>ACS Sensors</i> , <b>2021</b> , 6, 2682-2690	9.2	3
4	Biodetection and sensing for cancer diagnostics <b>2020</b> , 643-660		2
3	A SERS-based 3D nanobiosensor: towards cell metabolite monitoring. <i>Materials Advances</i> , <b>2020</b> , 1, 1613-1621	3.621	2
2	Current nanotechnology advances in diagnostic biosensors. <i>Medical Devices &amp; Sensors</i> , <b>2021</b> , 4, e10156	1.6	1

- 1 Biosensors Advances: Contributions to Cancer Diagnostics and Treatment. *Advances in Experimental Medicine and Biology*, **2022**, 259-273 3.6