

# Andrey C Coatrini

## 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.

27 papers	464 citations	12 h-index	21 g-index
31 ext. papers	589 ext. citations	6.5 avg, IF	3.79 L-index

#	Paper	IF	Citations
27	Carbon Nanotube Matrix for Highly Sensitive Biosensors To Detect Pancreatic Cancer Biomarker CA19-9. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25878-25886	9.5	53
26	Adsorption according to the Langmuir-Freundlich model is the detection mechanism of the antigen p53 for early diagnosis of cancer. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 8412-8	3.6	45
25	Immunosensors Made with Layer-by-Layer Films on Chitosan/Gold Nanoparticle Matrices to Detect D-Dimer as Biomarker for Venous Thromboembolism. <i>Bulletin of the Chemical Society of Japan</i> , <b>2018</b> , 91, 891-896	5.1	39
24	Controlled Film Architectures to Detect a Biomarker for Pancreatic Cancer Using Impedance Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 25930-7	9.5	39
23	Immunosensor for Pancreatic Cancer Based on Electrospun Nanofibers Coated with Carbon Nanotubes or Gold Nanoparticles. <i>ACS Omega</i> , <b>2017</b> , 2, 6975-6983	3.9	37
22	Detection of the Prostate Cancer Biomarker PCA3 with Electrochemical and Impedance-Based Biosensors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 46645-46650	9.5	37
21	Supramolecular Control in Nanostructured Film Architectures for Detecting Breast Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 11833-41	9.5	30
20	Microfluidic-Based Genosensor To Detect Human Papillomavirus (HPV16) for Head and Neck Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 36757-36763	9.5	26
19	Electrochemical and optical detection and machine learning applied to images of genosensors for diagnosis of prostate cancer with the biomarker PCA3. <i>Talanta</i> , <b>2021</b> , 222, 121444	6.2	23
18	A simple architecture with self-assembled monolayers to build immunosensors for detecting the pancreatic cancer biomarker CA19-9. <i>Analyst, The</i> , <b>2018</b> , 143, 3302-3308	5	20
17	Electronic Nose Based on Carbon Nanocomposite Sensors for Clove Essential Oil Detection. <i>ACS Sensors</i> , <b>2020</b> , 5, 1814-1821	9.2	17
16	Eco-friendly gelatin films with rosin-grafted cellulose nanocrystals for antimicrobial packaging. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 165, 2974-2983	7.9	17
15	Analysis of Scanning Electron Microscopy Images To Investigate Adsorption Processes Responsible for Detection of Cancer Biomarkers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 5885-5890	9.5	11
14	Controlled molecular architectures in microfluidic immunosensors for detecting. <i>Analyst, The</i> , <b>2020</b> , 145, 6014-6023	5	11
13	Design of A Low-Cost and Disposable Paper-Based Immunosensor for the Rapid and Sensitive Detection of Aflatoxin B1. <i>Chemosensors</i> , <b>2020</b> , 8, 87	4	11
12	Polysaccharide Multilayer Films in Sensors for Detecting Prostate Tumor Cells Based on Hyaluronan-CD44 Interactions. <i>Cells</i> , <b>2020</b> , 9,	7.9	10
11	Detection of a SARS-CoV-2 sequence with genosensors using data analysis based on information visualization and machine learning techniques. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 5658-5670	7.8	8

10	Diagnostics of SARS-CoV-2 infection using electrical impedance spectroscopy with an immunosensor to detect the spike protein. <i>Talanta</i> , <b>2021</b> , 239, 123076	6.2	6
9	Femtosecond Laser Patterning of the Biopolymer Chitosan for Biofilm Formation. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	6
8	Immunosensors containing solution blow spun fibers of poly(lactic acid) to detect p53 biomarker. <i>Materials Science and Engineering C</i> , <b>2020</b> , 115, 111120	8.3	4
7	Machine Learning Used to Create a Multidimensional Calibration Space for Sensing and Biosensing Data. <i>Bulletin of the Chemical Society of Japan</i> ,	5.1	3
6	Liposome-Based Biosensors Using Phytase Immobilized on Polypyrrole Films for Phytic Acid Determination. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 847-851	5.1	2
5	Low-cost bacterial nanocellulose-based interdigitated biosensor to detect the p53 cancer biomarker. <i>Materials Science and Engineering C</i> , <b>2022</b> , 112676	8.3	2
4	Detection of HPV16 in cell lines deriving from cervical and head and neck cancer using a genosensor made with a DNA probe on a layer-by-layer matrix. <i>Materials Chemistry Frontiers</i> , <b>2020</b> , 4, 3258-3266	7.8	2
3	Nanostructured functional peptide films and their application in C-reactive protein immunosensors. <i>Bioelectrochemistry</i> , <b>2021</b> , 138, 107692	5.6	2
2	Sexual pheromone detection using PANI/Ag nanohybrid and PANI/PSS nanocomposite nanosensors. <i>Analytical Methods</i> , <b>2021</b> , 13, 3900-3908	3.2	2
1	Detection of Staphylococcus aureus in milk samples using impedance spectroscopy and data processing with information visualization techniques and multidimensional calibration space.. <i>Sensors and Actuators Reports</i> , <b>2022</b> , 4, 100083	4.7	1