Andrey C Coatrini

List of Publications by Year in Descending Order

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	Low-cost bacterial nanocellulose-based interdigitated biosensor to detect the p53 cancer biomarker. *Materials Science and Engineering C*, **2022**, 112676	8.3	2
26	Detection of Staphylococcus aureus in milk samples using impedance spectroscopy and data processing with information visualization techniques and multidimensional calibration space.. *Sensors and Actuators Reports*, **2022**, 4, 100083	4.7	1
25	Diagnostics of SARS-CoV-2 infection using electrical impedance spectroscopy with an immunosensor to detect the spike protein. *Talanta*, **2021**, 239, 123076	6.2	6
24	Electrochemical and optical detection and machine learning applied to images of genosensors for diagnosis of prostate cancer with the biomarker PCA3. *Talanta*, **2021**, 222, 121444	6.2	23
23	Nanostructured functional peptide films and their application in C-reactive protein immunosensors. *Bioelectrochemistry*, **2021**, 138, 107692	5.6	2
22	Detection of a SARS-CoV-2 sequence with genosensors using data analysis based on information visualization and machine learning techniques. *Materials Chemistry Frontiers*, **2021**, 5, 5658-5670	7.8	8
21	Sexual pheromone detection using PANI□Ag nanohybrid and PANI/PSS nanocomposite nanosensors. *Analytical Methods*, **2021**, 13, 3900-3908	3.2	2
20	Immunosensors containing solution blow spun fibers of poly(lactic acid) to detect p53 biomarker. *Materials Science and Engineering C*, **2020**, 115, 111120	8.3	4
19	Electronic Nose Based on Carbon Nanocomposite Sensors for Clove Essential Oil Detection. *ACS Sensors*, **2020**, 5, 1814-1821	9.2	17
18	Polysaccharide Multilayer Films in Sensors for Detecting Prostate Tumor Cells Based on Hyaluronan-CD44 Interactions. *Cells*, **2020**, 9,	7.9	10
17	Eco-friendly gelatin films with rosin-grafted cellulose nanocrystals for antimicrobial packaging. *International Journal of Biological Macromolecules*, **2020**, 165, 2974-2983	7.9	17
16	Controlled molecular architectures in microfluidic immunosensors for detecting. *Analyst, The*, **2020**, 145, 6014-6023	5	11
15	Design of A Low-Cost and Disposable Paper-Based Immunosensor for the Rapid and Sensitive Detection of Aflatoxin B1. *Chemosensors*, **2020**, 8, 87	4	11
14	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. *Materials Chemistry Frontiers*, **2020**, 4, 3258-3266	7.8	2
13	Liposome-Based Biosensors Using Phytase Immobilized on Polypyrrole Films for Phytic Acid Determination. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 847-851	5.1	2
12	Detection of the Prostate Cancer Biomarker PCA3 with Electrochemical and Impedance-Based Biosensors. *ACS Applied Materials & Interfaces*, **2019**, 11, 46645-46650	9.5	37
11	Immunosensors Made with Layer-by-Layer Films on Chitosan/Gold Nanoparticle Matrices to Detect D-Dimer as Biomarker for Venous Thromboembolism. *Bulletin of the Chemical Society of Japan*, **2018**, 91, 891-896	5.1	39

10	A simple architecture with self-assembled monolayers to build immunosensors for detecting the pancreatic cancer biomarker CA19-9. *Analyst, The*, **2018**, 143, 3302-3308	5	20
9	Microfluidic-Based Genosensor To Detect Human Papillomavirus (HPV16) for Head and Neck Cancer. *ACS Applied Materials & Interfaces*, **2018**, 10, 36757-36763	9.5	26
8	Analysis of Scanning Electron Microscopy Images To Investigate Adsorption Processes Responsible for Detection of Cancer Biomarkers. *ACS Applied Materials & Interfaces*, **2017**, 9, 5885-5890	9.5	11
7	Immunosensor for Pancreatic Cancer Based on Electrospun Nanofibers Coated with Carbon Nanotubes or Gold Nanoparticles. *ACS Omega*, **2017**, 2, 6975-6983	3.9	37
6	Carbon Nanotube Matrix for Highly Sensitive Biosensors To Detect Pancreatic Cancer Biomarker CA19-9. *ACS Applied Materials & Interfaces*, **2017**, 9, 25878-25886	9.5	53
5	Adsorption according to the Langmuir-Freundlich model is the detection mechanism of the antigen p53 for early diagnosis of cancer. *Physical Chemistry Chemical Physics*, **2016**, 18, 8412-8	3.6	45
4	Femtosecond Laser Patterning of the Biopolymer Chitosan for Biofilm Formation. *International Journal of Molecular Sciences*, **2016**, 17,	6.3	6
3	Supramolecular Control in Nanostructured Film Architectures for Detecting Breast Cancer. *ACS Applied Materials & Interfaces*, **2015**, 7, 11833-41	9.5	30
2	Controlled Film Architectures to Detect a Biomarker for Pancreatic Cancer Using Impedance Spectroscopy. *ACS Applied Materials & Interfaces*, **2015**, 7, 25930-7	9.5	39
1	Machine Learning Used to Create a Multidimensional Calibration Space for Sensing and Biosensing Data. *Bulletin of the Chemical Society of Japan*,	5.1	3