

# Mara Isabel Pividori

## 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.

108 papers	3,360 citations	35 h-index	53 g-index
113 ext. papers	3,644 ext. citations	6.4 avg, IF	5.35 L-index

#	Paper	IF	Citations
108	Electrochemical genosensor design: immobilisation of oligonucleotides onto transducer surfaces and detection methods. <i>Biosensors and Bioelectronics</i> , <b>2000</b> , 15, 291-303	11.8	257
107	Electrochemical magnetoimmunosensing strategy for the detection of pesticides residues. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 1780-8	7.8	136
106	Magnetically triggered direct electrochemical detection of DNA hybridization using Au67 quantum dot as electrical tracer. <i>Langmuir</i> , <b>2005</b> , 21, 9625-9	4	126
105	In situ DNA amplification with magnetic primers for the electrochemical detection of food pathogens. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2010-7	11.8	112
104	Electrochemical magneto immunosensing of antibiotic residues in milk. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 2184-91	11.8	108
103	Rapid detection of Salmonella in milk by electrochemical magneto-immunosensing. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 25, 510-3	11.8	92
102	Magneto immunoassays for Plasmodium falciparum histidine-rich protein 2 related to malaria based on magnetic nanoparticles. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5570-7	7.8	80
101	Immunoassay for folic acid detection in vitamin-fortified milk based on electrochemical magneto sensors. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 2057-63	11.8	70
100	Rigid carbon composites: a new transducing material for label-free electrochemical genosensing. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 567, 29-37	4.1	68
99	Genomagnetic assay based on label-free electrochemical detection using magneto-composite electrodes. <i>Sensors and Actuators B: Chemical</i> , <b>2006</b> , 114, 591-598	8.5	67
98	Impedimetric genosensors for the detection of DNA hybridization. <i>Analytical and Bioanalytical Chemistry</i> , <b>2006</b> , 385, 1195-201	4.4	64
97	Disposable magnetic DNA sensors for the determination at the attomolar level of a specific enterobacteriaceae family gene. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 8239-45	7.8	61
96	Magnetically separable polymer (Mag-MIP) for selective analysis of biotin in food samples. <i>Food Chemistry</i> , <b>2016</b> , 190, 460-467	8.5	60
95	Resolution of phenolic antioxidant mixtures employing a voltammetric bio-electronic tongue. <i>Analyst, The</i> , <b>2012</b> , 137, 349-56	5	60
94	Electrochemical sensing of methyl parathion on magnetic molecularly imprinted polymer. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 118, 181-187	11.8	59
93	Development and application of an electronic tongue for detection and monitoring of nitrate, nitrite and ammonium levels in waters. <i>Microchemical Journal</i> , <b>2013</b> , 110, 273-279	4.8	56
92	Magneto immunoseparation of pathogenic bacteria and electrochemical magneto genosensing of the double-tagged amplicon. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5812-20	7.8	56

91	Double-tagging polymerase chain reaction with a thiolated primer and electrochemical genosensing based on gold nanocomposite sensor for food safety. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 1332-9	7.8	54
90	Graphite-epoxy composites as a new transducing material for electrochemical genosensing. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 19, 473-84	11.8	50
89	Multiplexed detection of foodborne pathogens based on magnetic particles. <i>New Biotechnology</i> , <b>2015</b> , 32, 511-20	6.4	49
88	Controlled degradability of PCL-ZnO nanofibrous scaffolds for bone tissue engineering and their antibacterial activity. <i>Materials Science and Engineering C</i> , <b>2018</b> , 93, 724-738	8.3	49
87	A voltammetric electronic tongue made of modified epoxy-graphite electrodes for the qualitative analysis of wine. <i>Mikrochimica Acta</i> , <b>2010</b> , 169, 261-268	5.8	49
86	Rapid electrochemical genosensor assay using a streptavidin carbon-polymer biocomposite electrode. <i>Biosensors and Bioelectronics</i> , <b>2003</b> , 19, 165-75	11.8	47
85	Impedimetric detection of influenza A (H1N1) DNA sequence using carbon nanotubes platform and gold nanoparticles amplification. <i>Analyst, The</i> , <b>2010</b> , 135, 1765-72	5	45
84	Magnetic molecularly imprinted polymer for the isolation and detection of biotin and biotinylated biomolecules. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 88, 101-108	11.8	43
83	Magneto immunosensor for gliadin detection in gluten-free foodstuff: towards food safety for celiac patients. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 27, 46-52	11.8	42
82	Renewable Protein A modified graphite-epoxy composite for electrochemical immunosensing. <i>Journal of Immunological Methods</i> , <b>2004</b> , 286, 35-46	2.5	42
81	Electrochemical Genosensing Based on Rigid Carbon Composites. A Review. <i>Analytical Letters</i> , <b>2005</b> , 38, 2541-2565	2.2	42
80	Immunomagnetic separation of Salmonella with tailored magnetic micro and nanocarriers. A comparative study. <i>Talanta</i> , <b>2015</b> , 143, 198-204	6.2	41
79	Phagomagnetic separation and electrochemical magneto-genosensing of pathogenic bacteria. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 3079-86	7.8	41
78	Towards Q-PCR of pathogenic bacteria with improved electrochemical double-tagged genosensing detection. <i>Biosensors and Bioelectronics</i> , <b>2008</b> , 23, 1805-11	11.8	40
77	Electrochemical immunosensor for the diagnosis of celiac disease. <i>Analytical Biochemistry</i> , <b>2009</b> , 388, 229-34	3.1	39
76	Synthesis and characterization of magnetic-molecularly imprinted polymers for the HPLC-UV analysis of ametryn. <i>Reactive and Functional Polymers</i> , <b>2018</b> , 122, 175-182	4.6	39
75	Phagomagnetic immunoassay for the rapid detection of Salmonella. <i>Applied Microbiology and Biotechnology</i> , <b>2014</b> , 98, 1795-805	5.7	37
74	Classical dot-blot format implemented as an amperometric hybridisation genosensor. <i>Biosensors and Bioelectronics</i> , <b>2001</b> , 16, 1133-42	11.8	36

73	Development of a Coulombimetric immunosensor based on specific antibodies labeled with CdS nanoparticles for sulfonamide antibiotic residues analysis and its application to honey samples. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 43, 211-7	11.8	35
72	Biotin determination in food supplements by an electrochemical magneto biosensor. <i>Talanta</i> , <b>2012</b> , 97, 484-90	6.2	35
71	Electrochemical immunosensors, genosensors and phagosensors for Salmonella detection. <i>Analytical Methods</i> , <b>2014</b> , 6, 8858-8873	3.2	34
70	Electrochemical magneto immunosensor for the detection of anti-TG2 antibody in celiac disease. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 48, 203-9	11.8	33
69	Application of the avidin-biotin interaction to immobilize DNA in the development of electrochemical impedance genosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2007</b> , 389, 851-61	4.4	33
68	Dot-blot amperometric genosensor for detecting a novel determinant of beta-lactamase resistance in <i>Staphylococcus aureus</i> . <i>Analyst, The</i> , <b>2001</b> , 126, 1551-7	5	32
67	Biomarker detection of global infectious diseases based on magnetic particles. <i>New Biotechnology</i> , <b>2015</b> , 32, 521-32	6.4	31
66	Theoretical and experimental study for the biomimetic recognition of levothyroxine hormone on magnetic molecularly imprinted polymer. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 107, 203-210	11.8	31
65	Comparing nucleic acid lateral flow and electrochemical genosensing for the simultaneous detection of foodborne pathogens. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 88, 265-272	11.8	31
64	Electrochemical biosensing of pesticide residues based on affinity biocomposite platforms. <i>Biosensors and Bioelectronics</i> , <b>2007</b> , 22, 1707-15	11.8	31
63	DNA Adsorption on Carbonaceous Materials1-36		31
62	Electrochemical biosensing based on universal affinity biocomposite platforms. <i>Biosensors and Bioelectronics</i> , <b>2006</b> , 21, 1291-301	11.8	31
61	Coulombimetric immunosensor for paraquat based on electrochemical nanoprobe. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 194, 353-360	8.5	30
60	Graphite-Epoxy Platforms for Electrochemical Genosensing. <i>Analytical Letters</i> , <b>2003</b> , 36, 1669-1695	2.2	30
59	A novel core@shell magnetic molecular imprinted nanoparticles for selective determination of folic acid in different food samples. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 106, 51-56	4.6	30
58	Electrochemical sensor for alkaline phosphatase as biomarker for clinical and in vitro applications. <i>Sensors and Actuators B: Chemical</i> , <b>2019</b> , 281, 221-228	8.5	29
57	Electrochemical sensing using magnetic molecularly imprinted polymer particles previously captured by a magneto-sensor. <i>Talanta</i> , <b>2018</b> , 181, 19-23	6.2	27
56	Electrochemical genosensing of <i>Salmonella</i> , <i>Listeria</i> and <i>Escherichia coli</i> on silica magnetic particles. <i>Analytica Chimica Acta</i> , <b>2016</b> , 904, 1-9	6.6	27

55	Biomimetic magnetic sensor for electrochemical determination of scombrototoxin in fish. <i>Talanta</i> , <b>2019</b> , 194, 997-1004	6.2	27
54	Yoctomole electrochemical genosensing of Ebola virus cDNA by rolling circle and circle to circle amplification. <i>Biosensors and Bioelectronics</i> , <b>2017</b> , 93, 65-71	11.8	26
53	Electrochemical detection of fluoroquinolone antibiotics in milk using a magneto immunosensor. <i>Sensors</i> , <b>2014</b> , 14, 15965-80	3.8	26
52	Evaluation of seven cosubstrates in the quantification of horseradish peroxidase enzyme by square wave voltammetry. <i>Talanta</i> , <b>2012</b> , 88, 468-76	6.2	26
51	Electrochemical immunosensing of nanovesicles as biomarkers for breast cancer. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 150, 111882	11.8	26
50	Impedimetric detection of double-tagged PCR products using novel amplification procedures based on gold nanoparticles and Protein G. <i>Analyst, The</i> , <b>2009</b> , 134, 602-8	5	25
49	Electrochemical magneto-actuated biosensor for CD4 count in AIDS diagnosis and monitoring. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 974-80	11.8	22
48	Multiplex detection and characterization of breast cancer exosomes by magneto-actuated immunoassay. <i>Talanta</i> , <b>2020</b> , 211, 120657	6.2	21
47	Simultaneous electrochemical magneto genosensing of foodborne bacteria based on triple-tagging multiplex amplification. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 652-9	11.8	19
46	Micro and nanoparticles in biosensing systems for food safety and environmental monitoring. An example of converging technologies. <i>Mikrochimica Acta</i> , <b>2010</b> , 170, 227-242	5.8	18
45	An electrochemical magneto immunosensor (EMIS) for the determination of paraquat residues in potato samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7841-9	4.4	16
44	Synthesis of a new magnetic-MIP for the selective detection of 1-chloro-2,4-dinitrobenzene, a highly allergenic compound. <i>Materials Science and Engineering C</i> , <b>2017</b> , 74, 365-373	8.3	13
43	CD4 quantification based on magneto ELISA for AIDS diagnosis in low resource settings. <i>Talanta</i> , <b>2016</b> , 160, 36-45	6.2	12
42	Molecular conductance of double-stranded DNA evaluated by electrochemical capacitance spectroscopy. <i>Nanoscale</i> , <b>2016</b> , 8, 8931-8	7.7	12
41	Enzymatic electrochemical detection coupled to multivariate calibration for the determination of phenolic compounds in environmental samples. <i>Talanta</i> , <b>2013</b> , 106, 399-407	6.2	12
40	Extractant Assisted Synthesis of Polymer Stabilized Platinum and Palladium Metal Nanoparticles for Sensor Applications. <i>Solvent Extraction and Ion Exchange</i> , <b>2006</b> , 24, 731-745	2.5	12
39	Matrix Effect in the Isolation of Breast Cancer-Derived Nanovesicles by Immunomagnetic Separation and Electrochemical Immunosenesing-A Comparative Study. <i>Sensors</i> , <b>2020</b> , 20,	3.8	10
38	Bioaffinity platforms based on carbon-polymer biocomposites for electrochemical biosensing. <i>Thin Solid Films</i> , <b>2007</b> , 516, 284-292	2.2	10

37	Electrochemical detection in vitro and electron transfer mechanism of testosterone using a modified electrode with a cobalt oxide film. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 469-474	8.5	9
36	A portable electrochemical magnetoimmunosensor for detection of sulfonamide antimicrobials in honey. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7885-95	4.4	9
35	Voltammetric sensor based on magnetic particles modified composite electrode for determination of triamterene in biological sample. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 2491-2501	2.6	8
34	The activity of alkaline phosphatase in breast cancer exosomes simplifies the biosensing design. <i>Biosensors and Bioelectronics</i> , <b>2021</b> , 198, 113826	11.8	8
33	Towards an Understanding of Quality in Higher Education: The ELQ/AQA08 Model as an Evaluation Tool. <i>Quality in Higher Education</i> , <b>2010</b> , 16, 285-295	1.6	7
32	Preparation and Characterization of Graphite-Epoxy Composite Modified with Zinc Hexacyanoferrate and Their Electrochemical Behaviour in Presence of Substituted Anilines. <i>Electroanalysis</i> , <b>2010</b> , 22, 2979-2984	3	7
31	Magneto-actuated immunoassay for the detection of Mycobacterium fortuitum in hemodialysis water. <i>Talanta</i> , <b>2016</b> , 153, 38-44	6.2	7
30	Assessment of molecularly imprinted polymers (MIPs) in the preconcentration of disperse red 73 dye prior to photoelectrocatalytic treatment. <i>Environmental Science and Pollution Research</i> , <b>2017</b> , 24, 4134-4143	5.1	6
29	Interferon gamma transcript detection on T cells based on magnetic actuation and multiplex double-tagging electrochemical genosensing. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 117, 183-190	11.8	6
28	DNA polymorphism sensitive impedimetric detection on gold-nanoislands modified electrodes. <i>Talanta</i> , <b>2015</b> , 136, 95-101	6.2	6
27	Silver Nanocomposite Electrode Modified with Hexacyanoferrate. Preparation, Characterization and Electrochemical Behaviour Towards Substituted Anilines. <i>Electroanalysis</i> , <b>2011</b> , 23, 1100-1106	3	6
26	Osteoblastic exosomes. A non-destructive quantitative approach of alkaline phosphatase to assess osteoconductive nanomaterials. <i>Materials Science and Engineering C</i> , <b>2020</b> , 115, 110931	8.3	6
25	Biotinylated Phosphorus Dendrimers as Control Line in Nucleic Acid Lateral Flow Tests. <i>Biomacromolecules</i> , <b>2020</b> , 21, 1315-1323	6.9	5
24	Magneto immunofluorescence assay for diagnosis of celiac disease. <i>Analytica Chimica Acta</i> , <b>2013</b> , 798, 89-96	6.6	5
23	Determination of temporary dye Basic Red 51 in commercial hair dye, river water and wastewater from hairdressing salon using graphite-epoxy composite electrode modified with magnetic nanoparticles. <i>Microchemical Journal</i> , <b>2020</b> , 159, 105485	4.8	5
22	Comparative Study of Gold and Carbon Nanoparticles in Nucleic Acid Lateral Flow Assay. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	5
21	Magnetic-molecularly imprinted polymers in electrochemical sensors and biosensors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 6141-6157	4.4	5
20	Use of a composite electrode modified with magnetic particles for electroanalysis of azo dye removed from dyed hair strands. <i>Journal of Electroanalytical Chemistry</i> , <b>2016</b> , 782, 26-31	4.1	5

19	Development of magnetic nanoparticles modified with new molecularly imprinted polymer (MIPs) for selective analysis of glutathione. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 344, 130171	8.5	5
18	Electrochemical magneto-immunosensing of Salmonella based on nano and micro-sized magnetic particles. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 421, 012020	0.3	4
17	A novel strategy for screening-out raw milk contaminated with Mycobacterium bovis on dairy farms by double-tagging PCR and electrochemical genosensing. <i>International Microbiology</i> , <b>2010</b> , 13, 91-7	3	4
16	Biotransformation of disperse dyes using nitroreductase immobilized on magnetic particles modified with tosyl group: Identification of products by LC-MS-MS and theoretical studies conducted with DNA. <i>Environmental Pollution</i> , <b>2018</b> , 242, 863-871	9.3	3
15	A simple electrochemical method to monitor an azo dye reaction with a liver protein. <i>Analytical Biochemistry</i> , <b>2018</b> , 553, 46-53	3.1	3
14	Chapter 22 Electrochemical immunosensing of food residues by affinity biosensors and magneto sensors. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , 467-493	1.9	2
13	Procedure 31 Rapid electrochemical verification of PCR amplification of Salmonella spp. based on m-GEC electrodes. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , 49, e221-e226	1.9	2
12	Immunomagnetic Separation Improves the Detection of Mycobacteria by Paper-Based Lateral and Vertical Flow Immunochromatographic Assays. <i>Sensors</i> , <b>2021</b> , 21,	3.8	2
11	Assessment of the biological potential of diaryltriazene-derived triazene compounds. <i>Scientific Reports</i> , <b>2021</b> , 11, 2541	4.9	2
10	Chapter 21 Electrochemical genosensing of food pathogens based on graphite-epoxy composite. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , 439-466	1.9	1
9	Procedure 34 Electrochemical determination of sulfonamide antibiotics in milk samples using a class-selective antibody. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , 49, e237-e241	1.9	1
8	A Sensitive Aptasensor Using Biotin-Streptavidin System for Patulin Detection in Apple Juice.. <i>Biosensors</i> , <b>2022</b> , 12,	5.9	1
7	Electrochemical Genosensing of Based on Padlock Probes and Rolling Circle Amplification. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
6	Synthesis and characterization of a new ceramic nanomaterial SiO <sub>2</sub> /NPs Sm <sub>2</sub> O <sub>3</sub> /C-graphite for the development of electrochemical sensors. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 243, 122255	4.4	1
5	Immunomagnetic Separation of Salmonella with Tailored Magnetic Micro- and Nanocarriers. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2182, 51-65	1.4	1
4	Procedure 33 Electrochemical determination of atrazine in orange juice and bottled water samples based on Protein A biocomposite electrodes. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , e233-e236	1.9	
3	Procedure 32 In situ DNA amplification of Salmonella spp. with magnetic primers for the real-time electrochemical detection based on m-GEC electrodes. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , e227-e231	1.9	
2	Procedure 30 Electrochemical determination of Salmonella spp. based on GEC electrodes. <i>Comprehensive Analytical Chemistry</i> , <b>2007</b> , e213-e219	1.9	

- 1 Magneto Actuated Biosensors for Foodborne Pathogens and Infection Diseases Affecting Global Health. *Advanced Sciences and Technologies for Security Applications*, **2016**, 83-114 o.6