

MarÃ-a Isabel Pividori

List of Publications by Year in descending order

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109
papers

4,038
citations

81900

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133252

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113
all docs

113
docs citations

113
times ranked

4031
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical genosensor design: immobilisation of oligonucleotides onto transducer surfaces and detection methods. <i>Biosensors and Bioelectronics</i> , 2000, 15, 291-303.	10.1	302
2	Electrochemical Magnetoimmunosensing Strategy for the Detection of Pesticides Residues. <i>Analytical Chemistry</i> , 2006, 78, 1780-1788.	6.5	144
3	Magnetically Triggered Direct Electrochemical Detection of DNA Hybridization Using Au67Quantum Dot as Electrical Tracer. <i>Langmuir</i> , 2005, 21, 9625-9629.	3.5	133
4	In situ DNA amplification with magnetic primers for the electrochemical detection of food pathogens. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2010-2017.	10.1	122
5	Electrochemical magneto immunosensing of antibiotic residues in milk. <i>Biosensors and Bioelectronics</i> , 2007, 22, 2184-2191.	10.1	114
6	Rapid detection of Salmonella in milk by electrochemical magneto-immunosensing. <i>Biosensors and Bioelectronics</i> , 2009, 25, 510-513.	10.1	104
7	Magneto Immunoassays for Plasmodium falciparum Histidine-Rich Protein 2 Related to Malaria based on Magnetic Nanoparticles. <i>Analytical Chemistry</i> , 2011, 83, 5570-5577.	6.5	92
8	Rigid carbon composites: a new transducing material for label-free electrochemical genosensing. <i>Journal of Electroanalytical Chemistry</i> , 2004, 567, 29-37.	3.8	77
9	Immunoassay for folic acid detection in vitamin-fortified milk based on electrochemical magneto sensors. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2057-2063.	10.1	77
10	Controlled degradability of PCL-ZnO nanofibrous scaffolds for bone tissue engineering and their antibacterial activity. <i>Materials Science and Engineering C</i> , 2018, 93, 724-738.	7.3	77
11	Genomagnetic assay based on label-free electrochemical detection using magneto-composite electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006, 114, 591-598.	7.8	76
12	Magnetically separable polymer (Mag-MIP) for selective analysis of biotin in food samples. <i>Food Chemistry</i> , 2016, 190, 460-467.	8.2	76
13	Electrochemical sensing of methyl parathion on magnetic molecularly imprinted polymer. <i>Biosensors and Bioelectronics</i> , 2018, 118, 181-187.	10.1	75
14	Development and application of an electronic tongue for detection and monitoring of nitrate, nitrite and ammonium levels in waters. <i>Microchemical Journal</i> , 2013, 110, 273-279.	4.5	70
15	Multiplexed detection of foodborne pathogens based on magnetic particles. <i>New Biotechnology</i> , 2015, 32, 511-520.	4.4	70
16	Impedimetric genosensors for the detection of DNA hybridization. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1195-1201.	3.7	67
17	Magneto Immunoseparation of Pathogenic Bacteria and Electrochemical Magneto Genosensing of the Double-Tagged Amplicon. <i>Analytical Chemistry</i> , 2009, 81, 5812-5820.	6.5	67
18	Resolution of phenolic antioxidant mixtures employing a voltammetric bio-electronic tongue. <i>Analyst</i> , 2012, 137, 349-356.	3.5	67

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19	Synthesis and characterization of magnetic-molecularly imprinted polymers for the HPLC-UV analysis of ametryn. <i>Reactive and Functional Polymers</i> , 2018, 122, 175-182.	4.1	66
20	Disposable Magnetic DNA Sensors for the Determination at the Attomolar Level of a Specific <i>Enterobacteriaceae</i> Family Gene. <i>Analytical Chemistry</i> , 2008, 80, 8239-8245.	6.5	62
21	Double-Tagging Polymerase Chain Reaction with a Thiolated Primer and Electrochemical Genosensing based on Gold Nanocomposite Sensor for Food Safety. <i>Analytical Chemistry</i> , 2009, 81, 1332-1339.	6.5	60
22	Graphite-epoxy composites as a new transducing material for electrochemical genosensing. <i>Biosensors and Bioelectronics</i> , 2003, 19, 473-484.	10.1	59
23	A voltammetric electronic tongue made of modified epoxy-graphite electrodes for the qualitative analysis of wine. <i>Mikrochimica Acta</i> , 2010, 169, 261-268.	5.0	56
24	Electrochemical immunosensing of nanovesicles as biomarkers for breast cancer. <i>Biosensors and Bioelectronics</i> , 2020, 150, 111882.	10.1	51
25	Rapid electrochemical genosensor assay using a streptavidin carbon-polymer biocomposite electrode. <i>Biosensors and Bioelectronics</i> , 2003, 19, 165-175.	10.1	49
26	Impedimetric detection of influenza A (H1N1) DNA sequence using carbon nanotubes platform and gold nanoparticles amplification. <i>Analyst, The</i> , 2010, 135, 1765.	3.5	49
27	Magnetic molecularly imprinted polymer for the isolation and detection of biotin and biotinylated biomolecules. <i>Biosensors and Bioelectronics</i> , 2017, 88, 101-108.	10.1	48
28	Renewable Protein A modified graphite-epoxy composite for electrochemical immunosensing. <i>Journal of Immunological Methods</i> , 2004, 286, 35-46.	1.4	47
29	Magneto immunosensor for gliadin detection in gluten-free foodstuff: Towards food safety for celiac patients. <i>Biosensors and Bioelectronics</i> , 2011, 27, 46-52.	10.1	47
30	Electrochemical Genosensing Based on Rigid Carbon Composites. A Review. <i>Analytical Letters</i> , 2005, 38, 2541-2565.	1.8	46
31	Phagomagnetic Separation and Electrochemical Magneto-Genosensing of Pathogenic Bacteria. <i>Analytical Chemistry</i> , 2013, 85, 3079-3086.	6.5	45
32	Phagomagnetic immunoassay for the rapid detection of Salmonella. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 1795-1805.	3.6	45
33	Immunomagnetic separation of Salmonella with tailored magnetic micro and nanocarriers. A comparative study. <i>Talanta</i> , 2015, 143, 198-204.	5.5	45
34	Theoretical and experimental study for the biomimetic recognition of levothyroxine hormone on magnetic molecularly imprinted polymer. <i>Biosensors and Bioelectronics</i> , 2018, 107, 203-210.	10.1	43
35	Electrochemical sensor for alkaline phosphatase as biomarker for clinical and in vitro applications. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 221-228.	7.8	43
36	Towards Q-PCR of pathogenic bacteria with improved electrochemical double-tagged genosensing detection. <i>Biosensors and Bioelectronics</i> , 2008, 23, 1805-1811.	10.1	42

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37	Electrochemical immunosensor for the diagnosis of celiac disease. <i>Analytical Biochemistry</i> , 2009, 388, 229-234.	2.4	42
38	Comparing nucleic acid lateral flow and electrochemical genosensing for the simultaneous detection of foodborne pathogens. <i>Biosensors and Bioelectronics</i> , 2017, 88, 265-272.	10.1	42
39	Biotin determination in food supplements by an electrochemical magneto biosensor. <i>Talanta</i> , 2012, 97, 484-490.	5.5	41
40	Yoctomole electrochemical genosensing of Ebola virus cDNA by rolling circle and circle to circle amplification. <i>Biosensors and Bioelectronics</i> , 2017, 93, 65-71.	10.1	40
41	Electrochemical biosensing of pesticide residues based on affinity biocomposite platforms. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1707-1715.	10.1	39
42	Biomarker detection of global infectious diseases based on magnetic particles. <i>New Biotechnology</i> , 2015, 32, 521-532.	4.4	39
43	Classical dot-blot format implemented as an amperometric hybridisation genosensor. <i>Biosensors and Bioelectronics</i> , 2001, 16, 1133-1142.	10.1	38
44	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> , 2013, 43, 211-217.	10.1	37
45	Electrochemical immunosensors, genosensors and phagosensors for Salmonella detection. <i>Analytical Methods</i> , 2014, 6, 8858-8873.	2.7	37
46	Dot-blot amperometric genosensor for detecting a novel determinant of β -lactamase resistance in <i>Staphylococcus aureus</i> . <i>Analyst</i> , The, 2001, 126, 1551-1557.	3.5	36
47	DNA Adsorption on Carbonaceous Materials. , 0, , 1-36.		36
48	Electrochemical biosensing based on universal affinity biocomposite platforms. <i>Biosensors and Bioelectronics</i> , 2006, 21, 1291-1301.	10.1	36
49	Application of the avidin-biotin interaction to immobilize DNA in the development of electrochemical impedance genosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 851-861.	3.7	36
50	Electrochemical magneto immunosensor for the detection of anti-TG2 antibody in celiac disease. <i>Biosensors and Bioelectronics</i> , 2013, 48, 203-209.	10.1	36
51	Biomimetic magnetic sensor for electrochemical determination of scombrototoxin in fish. <i>Talanta</i> , 2019, 194, 997-1004.	5.5	36
52	Graphite-Epoxy Platforms for Electrochemical Genosensing. <i>Analytical Letters</i> , 2003, 36, 1669-1695.	1.8	35
53	A novel core@shell magnetic molecular imprinted nanoparticles for selective determination of folic acid in different food samples. <i>Reactive and Functional Polymers</i> , 2016, 106, 51-56.	4.1	34
54	Evaluation of seven cosubstrates in the quantification of horseradish peroxidase enzyme by square wave voltammetry. <i>Talanta</i> , 2012, 88, 468-476.	5.5	33

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55	Coulombimetric immunosensor for paraquat based on electrochemical nanoprobe. <i>Sensors and Actuators B: Chemical</i> , 2014, 194, 353-360.	7.8	33
56	Electrochemical genosensing of Salmonella, Listeria and Escherichia coli on silica magnetic particles. <i>Analytica Chimica Acta</i> , 2016, 904, 1-9.	5.4	32
57	Electrochemical sensing using magnetic molecularly imprinted polymer particles previously captured by a magneto-sensor. <i>Talanta</i> , 2018, 181, 19-23.	5.5	32
58	The activity of alkaline phosphatase in breast cancer exosomes simplifies the biosensing design. <i>Biosensors and Bioelectronics</i> , 2022, 198, 113826.	10.1	32
59	Electrochemical Detection of Fluoroquinolone Antibiotics in Milk Using a Magneto Immunosensor. <i>Sensors</i> , 2014, 14, 15965-15980.	3.8	31
60	Multiplex detection and characterization of breast cancer exosomes by magneto-actuated immunoassay. <i>Talanta</i> , 2020, 211, 120657.	5.5	31
61	Simultaneous electrochemical magneto genosensing of foodborne bacteria based on triple-tagging multiplex amplification. <i>Biosensors and Bioelectronics</i> , 2015, 74, 652-659.	10.1	28
62	Impedimetric detection of double-tagged PCR products using novel amplification procedures based on gold nanoparticles and Protein G. <i>Analyst</i> , 2009, 134, 602-608.	3.5	26
63	Electrochemical magneto-actuated biosensor for CD4 count in AIDS diagnosis and monitoring. <i>Biosensors and Bioelectronics</i> , 2015, 74, 974-980.	10.1	23
64	Matrix Effect in the Isolation of Breast Cancer-Derived Nanovesicles by Immunomagnetic Separation and Electrochemical Immunosensing—A Comparative Study. <i>Sensors</i> , 2020, 20, 965.	3.8	22
65	Micro and nanoparticles in biosensing systems for food safety and environmental monitoring. An example of converging technologies. <i>Mikrochimica Acta</i> , 2010, 170, 227-242.	5.0	19
66	Comparative Study of Gold and Carbon Nanoparticles in Nucleic Acid Lateral Flow Assay. <i>Nanomaterials</i> , 2021, 11, 741.	4.1	19
67	An electrochemical magneto immunosensor (EMIS) for the determination of paraquat residues in potato samples. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7841-7849.	3.7	16
68	Molecular conductance of double-stranded DNA evaluated by electrochemical capacitance spectroscopy. <i>Nanoscale</i> , 2016, 8, 8931-8938.	5.6	16
69	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> , 2017, 74, 365-373.	7.3	16
70	Development of magnetic nanoparticles modified with new molecularly imprinted polymer (MIPs) for selective analysis of glutathione. <i>Sensors and Actuators B: Chemical</i> , 2021, 344, 130171.	7.8	16
71	Enzymatic electrochemical detection coupled to multivariate calibration for the determination of phenolic compounds in environmental samples. <i>Talanta</i> , 2013, 106, 399-407.	5.5	15
72	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> , 2014, 202, 469-474.	7.8	15

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73	CD4 quantification based on magneto ELISA for AIDS diagnosis in low resource settings. <i>Talanta</i> , 2016, 160, 36-45.	5.5	14
74	Magnetic-molecularly imprinted polymers in electrochemical sensors and biosensors. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 6141-6157.	3.7	14
75	Extractant Assisted Synthesis of Polymer Stabilized Platinum and Palladium Metal Nanoparticles for Sensor Applications. <i>Solvent Extraction and Ion Exchange</i> , 2006, 24, 731-745.	2.0	13
76	Bioaffinity platforms based on carbon-polymer biocomposites for electrochemical biosensing. <i>Thin Solid Films</i> , 2007, 516, 284-292.	1.8	12
77	Magneto-actuated immunoassay for the detection of <i>Mycobacterium fortuitum</i> in hemodialysis water. <i>Talanta</i> , 2016, 153, 38-44.	5.5	10
78	Voltammetric sensor based on magnetic particles modified composite electrode for determination of triamterene in biological sample. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 2491-2501.	2.5	10
79	Towards an Understanding of Quality in Higher Education: The ELQ/AQA08 Model as an Evaluation Tool. <i>Quality in Higher Education</i> , 2010, 16, 285-295.	1.1	9
80	A portable electrochemical magnetoimmunosensor for detection of sulfonamide antimicrobials in honey. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7885-7895.	3.7	9
81	Interferon gamma transcript detection on T cells based on magnetic actuation and multiplex double-tagging electrochemical genosensing. <i>Biosensors and Bioelectronics</i> , 2018, 117, 183-190.	10.1	9
82	Osteoblastic exosomes. A non-destructive quantitative approach of alkaline phosphatase to assess osteoconductive nanomaterials. <i>Materials Science and Engineering C</i> , 2020, 115, 110931.	7.3	9
83	Silver Nanocomposite Electrode Modified with Hexacyanoferrate. Preparation, Characterization and Electrochemical Behaviour Towards Substituted Anilines. <i>Electroanalysis</i> , 2011, 23, 1100-1106.	2.9	8
84	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> , 2020, 159, 105485.	4.5	8
85	A Sensitive Aptasensor Using Biotin-Streptavidin System for Patulin Detection in Apple Juice. <i>Biosensors</i> , 2022, 12, 59.	4.7	8
86	Preparation and Characterization of Graphite-epoxy Composite Modified with Zinc Hexacyanoferrate and Their Electrochemical Behaviour in Presence of Substituted Anilines. <i>Electroanalysis</i> , 2010, 22, 2979-2984.	2.9	7
87	DNA polymorphism sensitive impedimetric detection on gold-nanoislands modified electrodes. <i>Talanta</i> , 2015, 136, 95-101.	5.5	7
88	Electrochemical Genosensing of <i>E. coli</i> Based on Padlock Probes and Rolling Circle Amplification. <i>Sensors</i> , 2021, 21, 1749.	3.8	7
89	Immunomagnetic Separation Improves the Detection of <i>Mycobacteria</i> by Paper-Based Lateral and Vertical Flow Immunochromatographic Assays. <i>Sensors</i> , 2021, 21, 5992.	3.8	7
90	Assessment of the biological potential of diaryltriazene-derived triazene compounds. <i>Scientific Reports</i> , 2021, 11, 2541.	3.3	7

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91	Magneto immunofluorescence assay for diagnosis of celiac disease. <i>Analytica Chimica Acta</i> , 2013, 798, 89-96.	5.4	6
92	Electrochemical magneto-immunosensing of <i>Salmonella</i> based on nano and micro-sized magnetic particles. <i>Journal of Physics: Conference Series</i> , 2013, 421, 012020.	0.4	6
93	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> , 2016, 782, 26-31.	3.8	6
94	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> , 2017, 24, 4134-4143.	5.3	6
95	Synthesis and characterization of a new ceramic nanomaterial SiO ₂ /NPsSm ₂ O ₃ /C-graphite for the development of electrochemical sensors. <i>Materials Chemistry and Physics</i> , 2020, 243, 122255.	4.0	5
96	Biotinylated Phosphorus Dendrimers as Control Line in Nucleic Acid Lateral Flow Tests. <i>Biomacromolecules</i> , 2020, 21, 1315-1323.	5.4	5
97	A novel strategy for screening-out raw milk contaminated with <i>Mycobacterium bovis</i> on dairy farms by double-tagging PCR and electrochemical genosensing. <i>International Microbiology</i> , 2010, 13, 91-7.	2.4	5
98	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> , 2018, 242, 863-871.	7.5	4
99	A simple electrochemical method to monitor an azo dye reaction with a liver protein. <i>Analytical Biochemistry</i> , 2018, 553, 46-53.	2.4	4
100	Chapter 22 Electrochemical immunosensing of food residues by affinity biosensors and magneto sensors. <i>Comprehensive Analytical Chemistry</i> , 2007, , 467-493.	1.3	3
101	Chapter 21 Electrochemical genosensing of food pathogens based on graphite-epoxy composite. <i>Comprehensive Analytical Chemistry</i> , 2007, , 439-466.	1.3	2
102	Procedure 31 Rapid electrochemical verification of PCR amplification of <i>Salmonella</i> spp. based on m-GEC electrodes. <i>Comprehensive Analytical Chemistry</i> , 2007, 49, e221-e226.	1.3	2
103	Procedure 34 Electrochemical determination of sulfonamide antibiotics in milk samples using a class-selective antibody. <i>Comprehensive Analytical Chemistry</i> , 2007, 49, e237-e241.	1.3	1
104	Immunomagnetic Separation of <i>Salmonella</i> with Tailored Magnetic Micro- and Nanocarriers. <i>Methods in Molecular Biology</i> , 2021, 2182, 51-65.	0.9	1
105	Magneto Actuated Biosensors for Foodborne Pathogens and Infection Diseases Affecting Global Health. <i>Advanced Sciences and Technologies for Security Applications</i> , 2016, , 83-114.	0.5	1
106	Procedure 33 Electrochemical determination of atrazine in orange juice and bottled water samples based on Protein A biocomposite electrodes. <i>Comprehensive Analytical Chemistry</i> , 2007, , e233-e236.	1.3	0
107	Procedure 32 In situ DNA amplification of <i>Salmonella</i> spp. with magnetic primers for the real-time electrochemical detection based on m-GEC electrodes. <i>Comprehensive Analytical Chemistry</i> , 2007, , e227-e231.	1.3	0
108	Procedure 30 Electrochemical determination of <i>Salmonella</i> spp. based on GEC electrodes. <i>Comprehensive Analytical Chemistry</i> , 2007, , e213-e219.	1.3	0

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109	Bioelectronic Tongue Employing Enzyme-Modified Sensors for the Resolution of Phenolic Antioxidant Mixtures. , 2011, , .		0