

Marta Prado Rodríguez

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,322
citations

394286

19
h-index

395590

33
g-index

71
all docs

71
docs citations

71
times ranked

1269
citing authors

#	ARTICLE	IF	CITATIONS
1	Preliminary characterization of bacteriocins from <i>Lactococcus lactis</i> , <i>Enterococcus faecium</i> and <i>Enterococcus mundtii</i> strains isolated from turbot (<i>Psetta maxima</i>). <i>Food Research International</i> , 2006, 39, 356-364.	2.9	134
2	Advanced DNA- and Protein-based Methods for the Detection and Investigation of Food Allergens. <i>Critical Reviews in Food Science and Nutrition</i> , 2016, 56, 2511-2542.	5.4	90
3	Rapid and sensitive detection of viable <i>Listeria monocytogenes</i> in food products by a filtration-based protocol and qPCR. <i>Food Microbiology</i> , 2018, 73, 254-263.	2.1	60
4	Detection of Ruminant Meat and Bone Meals in Animal Feed by Real-Time Polymerase Chain Reaction: Result of an Interlaboratory Study. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7495-7501.	2.4	49
5	Combination of Microfluidic Loop-Mediated Isothermal Amplification with Gold Nanoparticles for Rapid Detection of <i>Salmonella</i> spp. in Food Samples. <i>Frontiers in Microbiology</i> , 2017, 8, 2159.	1.5	48
6	Gold Nanostars for the Detection of Foodborne Pathogens via Surface-Enhanced Raman Scattering Combined with Microfluidics. <i>ACS Applied Nano Materials</i> , 2019, 2, 6081-6086.	2.4	47
7	Survey of authenticity of meat species in food products subjected to different technological processes, by means of PCR-RFLP analysis. <i>European Food Research and Technology</i> , 2004, 218, 306-312.	1.6	40
8	Improvement of the commercial quality of chilled Norway lobster (<i>Nephrops norvegicus</i>) stored in slurry ice: Effects of a preliminary treatment with an antimelanotic agent on enzymatic browning. <i>Food Chemistry</i> , 2007, 103, 741-748.	4.2	39
9	Systematic loop-mediated isothermal amplification assays for rapid detection and characterization of <i>Salmonella</i> spp., <i>Enteritidis</i> and <i>Typhimurium</i> in food samples. <i>Food Control</i> , 2017, 80, 297-306.	2.8	37
10	Amplification-free SERS analysis of DNA mutation in cancer cells with single-base sensitivity. <i>Nanoscale</i> , 2019, 11, 7781-7789.	2.8	37
11	Development and evaluation of loop-mediated isothermal amplification, and Recombinase Polymerase Amplification methodologies, for the detection of <i>Listeria monocytogenes</i> in ready-to-eat food samples. <i>Food Control</i> , 2018, 86, 27-34.	2.8	34
12	Combination of Immunomagnetic Separation and Real-Time Recombinase Polymerase Amplification (IMS-qRPA) for Specific Detection of <i>Listeria monocytogenes</i> in Smoked Salmon Samples. <i>Journal of Food Science</i> , 2019, 84, 1881-1887.	1.5	33
13	Profiling DNA mutation patterns by SERS fingerprinting for supervised cancer classification. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112392.	5.3	32
14	Detection of bovine DNA in raw and heat-processed foodstuffs, commercial foods and specific risk materials by a novel specific polymerase chain reaction method. <i>European Food Research and Technology</i> , 2005, 220, 444-450.	1.6	31
15	Specific detection of viable <i>Salmonella</i> <i>Enteritidis</i> by phage amplification combined with qPCR (PAA-qPCR) in spiked chicken meat samples. <i>Food Control</i> , 2019, 99, 79-83.	2.8	31
16	Multifunctional Gold Nanoparticles for the SERS Detection of Pathogens Combined with a LAMP-Microdroplets Approach. <i>Materials</i> , 2020, 13, 1934.	1.3	28
17	Comparison of extraction methods for the recovery, amplification and species-specific analysis of DNA from bone and bone meals. <i>Electrophoresis</i> , 2002, 23, 1005-1012.	1.3	24
18	Highly sensitive detection of gluten-containing cereals in food samples by real-time Loop-mediated isothermal AMplification (qLAMP) and real-time polymerase chain reaction (qPCR). <i>Food Chemistry</i> , 2018, 246, 156-163.	4.2	24

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19	Naked-eye detection strategies coupled with isothermal nucleic acid amplification techniques for the detection of human pathogens. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 1913-1939.	5.9	23
20	Application of a polymerase chain reaction(PCR) method as a complementary tool to microscopic analysis for the detection of bones and other animal tissues in home-made animal meals. <i>Journal of the Science of Food and Agriculture</i> , 2004, 84, 505-512.	1.7	21
21	A smart microfluidic platform for rapid multiplexed detection of foodborne pathogens. <i>Food Control</i> , 2020, 114, 107242.	2.8	20
22	Single nucleotide polymorphism analysis of the enterocin P structural gene of <i>Enterococcus faecium</i> strains isolated from nonfermented animal foods. <i>Molecular Nutrition and Food Research</i> , 2006, 50, 1229-1238.	1.5	19
23	Co-amplification and sequencing of a cytochrome b fragment affecting the identification of cattle in PCR-RFLP food authentication studies. <i>Food Chemistry</i> , 2007, 105, 436-442.	4.2	19
24	Novel approach for the simultaneous detection of DNA from different fish species based on a nuclear target: quantification potential. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 3041-3050.	1.9	19
25	Highly efficient DNA extraction and purification from olive oil on a washable and reusable miniaturized device. <i>Analytica Chimica Acta</i> , 2018, 1020, 30-40.	2.6	18
26	Optimized sample treatment, combined with real-time PCR, for same-day detection of <i>E. coli</i> O157 in ground beef and leafy greens. <i>Food Control</i> , 2020, 108, 106790.	2.8	18
27	Influence of the Electrolyte Salt Concentration on DNA Detection with Graphene Transistors. <i>Biosensors</i> , 2021, 11, 24.	2.3	18
28	Novel approach for interlaboratory transfer of real-time PCR methods: detecting bovine meat and bone meal in feed. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1423-1431.	1.9	17
29	Development of a real-time PCR method for the simultaneous detection of mackerel and horse mackerel. <i>Food Control</i> , 2013, 34, 19-23.	2.8	15
30	Multiplex Detection of <i>Salmonella</i> spp., <i>E. coli</i> O157 and <i>L. monocytogenes</i> by qPCR Melt Curve Analysis in Spiked Infant Formula. <i>Microorganisms</i> , 2020, 8, 1359.	1.6	15
31	Comparative study of multiplex real-time recombinase polymerase amplification and ISO 11290-1 methods for the detection of <i>Listeria monocytogenes</i> in dairy products. <i>Food Microbiology</i> , 2020, 92, 103570.	2.1	15
32	Evaluation of Different Genetic Targets for <i>Salmonella enterica</i> Serovar Enteritidis and Typhimurium, Using Loop-Mediated Isothermal AMplification for Detection in Food Samples. <i>Frontiers in Sustainable Food Systems</i> , 2018, 2, .	1.8	14
33	Terminal deoxynucleotidyl transferase-mediated formation of protein binding polynucleotides. <i>Nucleic Acids Research</i> , 2021, 49, 1065-1074.	6.5	14
34	Plasmonic response of DNA-assembled gold nanorods: Effect of DNA linker length, temperature and linker/nanoparticles ratio. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 34-42.	5.0	13
35	Application of Recombinase Polymerase Amplification with Lateral Flow for a Naked-Eye Detection of <i>Listeria monocytogenes</i> on Food Processing Surfaces. <i>Foods</i> , 2020, 9, 1249.	1.9	13
36	Loop-mediated isothermal amplification combined with immunomagnetic separation and propidium monoazide for the specific detection of viable <i>Listeria monocytogenes</i> in milk products, with an internal amplification control. <i>Food Control</i> , 2021, 125, 107975.	2.8	13

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37	Programmable graphene-based microfluidic sensor for DNA detection. <i>Sensors and Actuators B: Chemical</i> , 2022, 367, 132044.	4.0	13
38	Single-Step DNA Detection Assay Monitoring Dual-Color Light Scattering from Individual Metal Nanoparticle Aggregates. <i>ACS Sensors</i> , 2017, 2, 251-256.	4.0	12
39	A multivalent aptamer-based electrochemical biosensor for biomarker detection in urinary tract infection. <i>Electrochimica Acta</i> , 2021, 389, 138644.	2.6	12
40	Encapsulation of Nanostructures in a Dielectric Matrix Providing Optical Enhancement in Ultrathin Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000310.	3.1	10
41	Faster monitoring of the invasive alien species (IAS) <i>Dreissena polymorpha</i> in river basins through isothermal amplification. <i>Scientific Reports</i> , 2021, 11, 10175.	1.6	10
42	Genetic evidence of an Asian background in heteroplasmic Iberian cattle (<i>Bos taurus</i>): Effect on food authentication studies based on polymerase chain reaction-restriction fragment length polymorphism analysis. <i>Electrophoresis</i> , 2005, 26, 2918-2926.	1.3	9
43	Detection of Foodborne Pathogens Using Nanoparticles. <i>Advantages and Trends.</i> , 2016, , 183-201.		9
44	Novel approach for accurate minute DNA quantification on microvolumetric solutions. <i>Microchemical Journal</i> , 2018, 138, 540-549.	2.3	8
45	Updated quantitative risk assessment (QRA) of the BSE risk posed by processed animal protein (PAP). <i>EFSA Journal</i> , 2018, 16, e05314.	0.9	8
46	Application of Short Pre-enrichment, and Double Chemistry Real-Time PCR, Combining Fluorescent Probes and an Intercalating Dye, for Same-Day Detection and Confirmation of <i>Salmonella</i> spp. and <i>Escherichia coli</i> O157 in Ground Beef and Chicken Samples. <i>Frontiers in Microbiology</i> , 2020, 11, 591041.	1.5	8
47	Optimization and Clinical Evaluation of a Multi-Target Loop-Mediated Isothermal Amplification Assay for the Detection of SARS-CoV-2 in Nasopharyngeal Samples. <i>Viruses</i> , 2021, 13, 940.	1.5	8
48	Microsatellite Markers in Olives (<i>Olea europaea</i> L.): Utility in the Cataloging of Germplasm, Food Authenticity and Traceability Studies. <i>Foods</i> , 2021, 10, 1907.	1.9	8
49	Suitability of the MinION long read sequencer for semi-targeted detection of foodborne pathogens. <i>Analytica Chimica Acta</i> , 2021, 1184, 339051.	2.6	8
50	The Use of Multiplex Real-Time PCR for the Simultaneous Detection of Foodborne Bacterial Pathogens. <i>Methods in Molecular Biology</i> , 2019, 1918, 35-45.	0.4	8
51	Dual colorimetric strategy for specific DNA detection by nicking endonuclease-assisted gold nanoparticle signal amplification. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 5239-5253.	1.9	7
52	Combination of Recombinase Polymerase Amplification with SYBR Green I for naked-eye, same-day detection of <i>Escherichia coli</i> O157:H7 in ground meat. <i>Food Control</i> , 2022, 132, 108494.	2.8	7
53	Next-day detection of viable <i>Listeria monocytogenes</i> by multiplex reverse transcriptase real-time PCR. <i>Food Control</i> , 2022, 133, 108593.	2.8	7
54	Rapid Same-Day Detection of <i>Listeria monocytogenes</i> , <i>Salmonella</i> spp., and <i>Escherichia coli</i> O157 by Colorimetric LAMP in Dairy Products. <i>Food Analytical Methods</i> , 2022, 15, 2959-2971.	1.3	7

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55	Factors influencing the accuracy of measurements with real-time PCR: The example of the determination of processed animal proteins. <i>Food Control</i> , 2012, 24, 142-147.	2.8	6
56	Single-use microfluidic device for purification and concentration of environmental DNA from river water. <i>Talanta</i> , 2021, 226, 122109.	2.9	6
57	Evaluation and implementation of commercial antibodies for improved nanoparticle-based immunomagnetic separation and real-time PCR for faster detection of <i>Listeria monocytogenes</i> . <i>Journal of Food Science and Technology</i> , 2020, 57, 4143-4151.	1.4	5
58	Direct chemiluminescent immunodetection of proteins in agarose gels. <i>Electrophoresis</i> , 2002, 23, 979-984.	1.3	4
59	Evaluation of simple sequence repeats (SSR) and single nucleotide polymorphism (SNP)-based methods in olive varieties from the Northwest of Spain and potential for miniaturization. <i>Food Chemistry Molecular Sciences</i> , 2021, 3, 100038.	0.9	4
60	Development and evaluation of a real-time fluorescence, and naked-eye colorimetric, loop-mediated isothermal amplification-based method for the rapid detection of spoilage fungi in fruit preparations. <i>Food Control</i> , 2022, 135, 108784.	2.8	4
61	Development of a Panfungal Recombinase Polymerase Amplification (RPA) Method Coupled with Lateral Flow Strips for the Detection of Spoilage Fungi. <i>Food Analytical Methods</i> , 2023, 16, 997-1006.	1.3	4
62	Short pre-enrichment and modified matrix lysis. A comparative study towards same-day detection of <i>Listeria monocytogenes</i> . <i>LWT - Food Science and Technology</i> , 2022, 154, 112900.	2.5	3
63	The Protein-templated Synthesis of Enzyme-generated Aptamers. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	3
64	Chapter 9. Application of Omics-based Miniaturized Systems in Food Quality and Safety. <i>Food Chemistry, Function and Analysis</i> , 2021, , 222-256.	0.1	1
65	Development of a real-time PCR assay with an internal amplification control for the detection of spoilage fungi in fruit preparations. <i>Food Control</i> , 2022, 135, 108783.	2.8	1
66	2. New techniques in environment monitoring. , 2015, , 35-98.		0
67	Data on minute DNA quantification on microvolumetric solutions: comparison of mathematical models and effect of some compounds on the DNA quantification accuracy. <i>Data in Brief</i> , 2018, 21, 424-431.	0.5	0
68	Amplified plasmonic and microfluidic setup for DNA monitoring. <i>Mikrochimica Acta</i> , 2021, 188, 326.	2.5	0
69	2 New techniques in environment monitoring. , 2020, , 35-106.		0
70	The Protein-templated Synthesis of Enzyme-generated Aptamers. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0