

Lourdes Arce

List of Publications by Year in descending order

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108
papers

3,199
citations

136885

32
h-index

182361

51
g-index

111
all docs

111
docs citations

111
times ranked

2565
citing authors

#	ARTICLE	IF	CITATIONS
1	Target vs spectral fingerprint data analysis of Iberian ham samples for avoiding labelling fraud using headspace " gas chromatography-ion mobility spectrometry. Food Chemistry, 2018, 246, 65-73.	4.2	150
2	Determination of volatile compounds by GC-IMS to assign the quality of virgin olive oil. Food Chemistry, 2015, 187, 572-579.	4.2	124
3	Determination of anti-carcinogenic polyphenols present in green tea using capillary electrophoresis coupled to a flow injection system. Journal of Chromatography A, 1998, 827, 113-120.	1.8	116
4	Quality assessment of olive oils based on temperature-ramped HS-GC-IMS and sensory evaluation: Comparison of different processing approaches by LDA, kNN, and SVM. Food Chemistry, 2019, 278, 720-728.	4.2	113
5	Direct determination of biogenic amines in wine by integrating continuous flow clean-up and capillary electrophoresis with indirect UV detection. Journal of Chromatography A, 1998, 803, 249-260.	1.8	91
6	Determination of trans-resveratrol and other polyphenols in wines by a continuous flow sample clean-up system followed by capillary electrophoresis separation. Analytica Chimica Acta, 1998, 359, 27-38.	2.6	82
7	Selective extraction of astaxanthin from crustaceans by use of supercritical carbon dioxide. Talanta, 2004, 64, 726-731.	2.9	80
8	Target identification of volatile metabolites to allow the differentiation of lactic acid bacteria by gas chromatography-ion mobility spectrometry. Food Chemistry, 2017, 220, 362-370.	4.2	79
9	Flow injection-capillary electrophoresis coupling to automate on-line sample treatment for the determination of inorganic ions in waters. Journal of Chromatography A, 1997, 791, 279-287.	1.8	73
10	A robustness study of calibration models for olive oil classification: Targeted and non-targeted fingerprint approaches based on GC-IMS. Food Chemistry, 2019, 288, 315-324.	4.2	72
11	Rapid determination of trace levels of tetracyclines in surface water using a continuous flow manifold coupled to a capillary electrophoresis system. Analytica Chimica Acta, 2004, 517, 89-94.	2.6	71
12	Direct classification of olive oils by using two types of ion mobility spectrometers. Analytica Chimica Acta, 2011, 696, 108-115.	2.6	70
13	Multi-capillary column-ion mobility spectrometry: a potential screening system to differentiate virgin olive oils. Analytical and Bioanalytical Chemistry, 2012, 402, 489-498.	1.9	65
14	Screening of aflatoxins in feed samples using a flow system coupled to capillary electrophoresis. Journal of Chromatography A, 2002, 967, 303-314.	1.8	64
15	Detection of adulteration in extra virgin olive oils by using UV-IMS and chemometric analysis. Food Control, 2018, 85, 292-299.	2.8	64
16	HS-GC-IMS and chemometric data treatment for food authenticity assessment: Olive oil mapping and classification through two different devices as an example. Food Control, 2019, 98, 82-93.	2.8	63
17	Use of a non-destructive sampling method for characterization of Iberian cured ham breed and feeding regime using GC-IMS. Meat Science, 2019, 152, 146-154.	2.7	58
18	Direct determination of chlorophenols present in liquid samples by using a supported liquid membrane coupled in-line with capillary electrophoresis equipment. Analytica Chimica Acta, 2007, 587, 97-103.	2.6	56

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19	Determination of pesticides in waters by automatic on-line solid-phase extractionâ€“capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000, 866, 137-146.	1.8	55
20	Coupling continuous separation techniques to capillary electrophoresis. <i>Journal of Chromatography A</i> , 2001, 924, 3-30.	1.8	55
21	Sample-introduction systems coupled to ion-mobility spectrometry equipment for determining compounds present in gaseous, liquid and solid samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2008, 27, 139-150.	5.8	53
22	Destruxin A production by <i>Metarhizium brunneum</i> strains during transient endophytic colonisation of <i>Solanum tuberosum</i> . <i>Biocontrol Science and Technology</i> , 2016, 26, 1574-1585.	0.5	53
23	On-line ion-exchange preconcentration in a flow injection system coupled to capillary electrophoresis for the direct determination of UV absorbing anions. <i>Analytica Chimica Acta</i> , 1999, 390, 39-44.	2.6	51
24	Ion mobility spectrometry of volatile compounds from Iberian pig fat for fast feeding regime authentication. <i>Talanta</i> , 2008, 76, 591-596.	2.9	50
25	Liquid-phase microextraction techniques for simplifying sample treatment in capillary electrophoresis. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 842-853.	5.8	50
26	Direct coupling of a gasâ€“liquid separator to an ion mobility spectrometer for the classification of different white wines using chemometrics tools. <i>Talanta</i> , 2011, 84, 471-479.	2.9	50
27	Inâ€“line liquidâ€“phase microextraction for selective enrichment and direct electrophoretic analysis of acidic drugs. <i>Electrophoresis</i> , 2007, 28, 3284-3289.	1.3	46
28	Ion Mobility Spectrometry versus Classical Physico-chemical Analysis for Assessing the Shelf Life of Extra Virgin Olive Oil According to Container Type and Storage Conditions. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 2179-2188.	2.4	39
29	New supported liquid membrane-capillary electrophoresis in-line arrangement for direct selective analysis of complex samples. <i>Electrophoresis</i> , 2006, 27, 3075-3085.	1.3	38
30	Combined use of supported liquid membrane and solidâ€“phase extraction to enhance selectivity and sensitivity in capillary electrophoresis for the determination of ochratoxin A in wine. <i>Electrophoresis</i> , 2008, 29, 1573-1581.	1.3	38
31	Easy sample treatment for the determination of enrofloxacin and ciprofloxacin residues in raw bovine milk by capillary electrophoresis. <i>Electrophoresis</i> , 2012, 33, 2978-2986.	1.3	34
32	Volatile Metabolites of Goat Cheeses Determined by Ion Mobility Spectrometry. Potential Applications in Quality Control. <i>Food Analytical Methods</i> , 2015, 8, 1699-1709.	1.3	34
33	Coupling Continuous Sample Treatment Systems to Capillary Electrophoresis. <i>Critical Reviews in Analytical Chemistry</i> , 1998, 28, 63-81.	1.8	33
34	Determination of penicillins in milk of animal origin by capillary electrophoresis: Is sample treatment the bottleneck for routine laboratories?. <i>Talanta</i> , 2014, 119, 75-82.	2.9	33
35	Feasibility study on the use of infrared spectroscopy for the direct authentication of Iberian pig fattening diet. <i>Analytica Chimica Acta</i> , 2009, 636, 183-189.	2.6	30
36	The More and Less Common Approaches to Enhancing Sensitivity in Capillary Electrophoresis. <i>Current Analytical Chemistry</i> , 2010, 6, 126-143.	0.6	30

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37	Selective and rapid determination of biogenic amines by capillary zone electrophoresis. <i>Chromatographia</i> , 1997, 46, 170-176.	0.7	29
38	Thirty years of capillary electrophoresis in food analysis laboratories: Potential applications. <i>Electrophoresis</i> , 2011, 32, 1379-1393.	1.3	29
39	Use of calixarene compounds as selectivity modifiers in capillary electrophoresis separations. <i>Journal of Chromatography A</i> , 1998, 816, 243-249.	1.8	28
40	Analysis of solid samples by capillary electrophoresis using a gas extraction sampling device in a flow system. <i>Analytica Chimica Acta</i> , 2001, 438, 315-322.	2.6	28
41	Bioguided extraction of polyphenols from grape marc by using an alternative supercritical-fluid extraction method based on a liquid solvent trap. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 2021-2027.	1.9	28
42	Self-assembled monolayer-based piezoelectric flow immunosensor for the determination of canine immunoglobulin. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3217-3223.	5.3	26
43	Comparison of off- and in-line solid-phase extraction for enhancing sensitivity in capillary electrophoresis using ochratoxin as a model compound. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 609-615.	1.9	26
44	Determination of heterocyclic aromatic amines in fried beefsteak, meat extract, and fish by capillary zone electrophoresis. <i>Chromatographia</i> , 1998, 48, 700-706.	0.7	24
45	Determination of phenolic constituents in citrus samples by on-line coupling of a flow system with capillary electrophoresis. <i>Electrophoresis</i> , 2001, 22, 1553-1560.	1.3	24
46	Use of ion mobility spectroscopy with an ultraviolet ionization source as a vanguard screening system for the detection and determination of acetone in urine as a biomarker for cow and human diseases. <i>Talanta</i> , 2009, 78, 863-868.	2.9	24
47	Combination of solid-phase extraction and large-volume stacking with polarity switching in micellar electrokinetic capillary chromatography for the determination of traces of nonsteroidal anti-inflammatory drugs in saliva. <i>Electrophoresis</i> , 2008, 29, 3074-3080.	1.3	23
48	Stability of proton-bound clusters of alkyl alcohols, aldehydes and ketones in Ion Mobility Spectrometry. <i>Talanta</i> , 2018, 185, 299-308.	2.9	23
49	Development of a screening method for analytical control of antibiotic residues by micellar electrokinetic capillary chromatography. <i>Analytica Chimica Acta</i> , 2004, 523, 21-28.	2.6	22
50	Direct determination of volatile analytes from solid samples by UV-ion mobility spectrometry. <i>Journal of Chromatography A</i> , 2008, 1215, 8-14.	1.8	22
51	Differentiation and identification of white wine varieties by using electropherogram fingerprints obtained with CE. <i>Journal of Separation Science</i> , 2009, 32, 3809-3816.	1.3	22
52	Evaluation of phenylene-bridged periodic mesoporous organosilica as a stationary phase for solid phase extraction. <i>Journal of Chromatography A</i> , 2014, 1370, 25-32.	1.8	22
53	Direct multiparametric determination of anions in soil samples by integrating on-line automated extraction/filtering with capillary electrophoresis. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 697-701.	1.5	21
54	Piezoelectric screening coupled on line to capillary electrophoresis for detection and speciation of mercury. <i>Journal of Separation Science</i> , 2002, 25, 319-327.	1.3	20

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55	Enhancing sensitivity and selectivity in the determination of aldehydes in olive oil by use of a Tenax TA trap coupled to a UV-ion mobility spectrometer. <i>Journal of Chromatography A</i> , 2011, 1218, 7543-7549.	1.8	20
56	Differentiation of organic goat's milk based on its hippuric acid content as determined by capillary electrophoresis. <i>Electrophoresis</i> , 2010, 31, 2211-2217.	1.3	19
57	Evaluation of hippuric acid content in goat milk as a marker of feeding regimen. <i>Journal of Dairy Science</i> , 2013, 96, 5426-5434.	1.4	19
58	Headspace Gas Chromatography Coupled to Mass Spectrometry and Ion Mobility Spectrometry: Classification of Virgin Olive Oils as a Study Case. <i>Foods</i> , 2020, 9, 1288.	1.9	19
59	A simple sample treatment for the determination of enrofloxacin and ciprofloxacin in raw goat milk. <i>Microchemical Journal</i> , 2013, 110, 533-537.	2.3	18
60	Full Workflows for the Analysis of Gas Chromatography–Ion Mobility Spectrometry in Foodomics: Application to the Analysis of Iberian Ham Aroma. <i>Sensors</i> , 2021, 21, 6156.	2.1	18
61	Automatic calibration in capillary electrophoresis. <i>Electrophoresis</i> , 2000, 21, 556-562.	1.3	17
62	Thermal desorption-ion mobility spectrometry: A rapid sensor for the detection of cannabinoids and discrimination of Cannabis sativa L. chemotypes. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 1413-1424.	4.0	17
63	Usefulness of GC-IMS for rapid quantitative analysis without sample treatment: Focus on ethanol, one of the potential classification markers of olive oils. <i>LWT - Food Science and Technology</i> , 2020, 120, 108897.	2.5	17
64	Development of a QuEChERS-based extraction method for the determination of destruxins in potato plants by UHPLC–MS/MS. <i>Talanta</i> , 2016, 146, 815-822.	2.9	15
65	Chemical Fingerprinting of Olive Oils by Electrospray Ionization-Differential Mobility Analysis-Mass Spectrometry: A New Alternative to Food Authenticity Testing. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 527-537.	1.2	15
66	SCREENING OF POLYPHENOLS IN GRAPE MARC BY ON-LINE SUPERCRITICAL FLUID EXTRACTION–FLOW THROUGH SENSOR. <i>Analytical Letters</i> , 2001, 34, 1461-1476.	1.0	14
67	Separation and On-Line Distinction of Enantiomers: A Non-Aqueous Capillary Electrophoresis Fourier Transform Infrared Spectroscopy Study. <i>Applied Spectroscopy</i> , 2004, 58, 662-666.	1.2	14
68	The Application of GC–MS and Chemometrics to Categorize the Feeding Regime of Iberian Pigs in Spain. <i>Chromatographia</i> , 2008, 68, 593-601.	0.7	14
69	Use of carboxylic group functionalized magnetic nanoparticles for the preconcentration of metals in juice samples prior to the determination by capillary electrophoresis. <i>Electrophoresis</i> , 2012, 33, 2446-2453.	1.3	14
70	Usage considerations for headspace-gas chromatography-ion mobility spectrometry as a suitable technique for qualitative analysis in a routine lab. <i>Journal of Chromatography A</i> , 2021, 1640, 461937.	1.8	13
71	Exploration of the potential of different analytical techniques to authenticate organic vs. conventional olives and olive oils from two varieties using untargeted fingerprinting approaches. <i>Food Control</i> , 2021, 124, 107828.	2.8	13
72	Analytical strategy for determination of known and unknown destruxins using hybrid quadrupole-Orbitrap high-resolution mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 3347-3357.	1.9	12

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73	Optimisation of a Headspace Solid-Phase Micro-Extraction Procedure for the Determination of 2,4,6-Trichloroanisole and Various Related Compounds in Cork Washing Waste Water by Use of Gas Chromatography-Mass Spectrometry. <i>Chromatographia</i> , 2005, 62, 527-531.	0.7	11
74	Use of whole electrophoretic profile and chemometric tools for the differentiation of three olive oil qualities. <i>Talanta</i> , 2019, 197, 175-180.	2.9	11
75	Microemulsion electrokinetic chromatography separation by using hexane-in-water microemulsions without cosurfactant: Comparison with MEKC. <i>Electrophoresis</i> , 2006, 27, 4439-4445.	1.3	10
76	Quality authentication of virgin olive oils using orthogonal techniques and chemometrics based on individual and high-level data fusion information. <i>Talanta</i> , 2020, 219, 121260.	2.9	10
77	Use of eosin as a fluorophore in capillary electrophoresis with laser detection. <i>Journal of Chromatography A</i> , 2001, 919, 407-415.	1.8	9
78	Determinação simultânea de resíduos de cloranfenicol, tianfenicol e florfenicol em leite bovino por cromatografia eletrocinética micelar. <i>Química Nova</i> , 2006, 29, 926-931.	0.3	9
79	Analytical Tools for Disease Diagnosis in Animals via Fecal Volatilome. <i>Critical Reviews in Analytical Chemistry</i> , 2022, 52, 917-932.	1.8	9
80	Potential of porphyrins as chromogenic reagents for determining metals in capillary electrophoresis. <i>Journal of Chromatography A</i> , 2009, 1216, 6256-6258.	1.8	8
81	Innovative coupling of supercritical fluid extraction with ion mobility spectrometry. <i>Talanta</i> , 2018, 188, 637-643.	2.9	8
82	Determination of Monoterpene Hydrocarbons and Alcohols in <i>Majorana hortensis</i> Moench by Micellar Electrokinetic Capillary Chromatographic. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 4215-4220.	2.4	7
83	Determination of mandelic acid enantiomers in urine by derivatization in supercritical carbon dioxide prior to their determination by gas chromatography. <i>Journal of Chromatography A</i> , 2006, 1104, 331-336.	1.8	7
84	Use of multiple sequential injections of equal volumes to determine the apparent binding constant for antibody-antigen complexes by capillary electrophoresis. <i>Talanta</i> , 2009, 78, 1446-1451.	2.9	7
85	A comparative study between different alternatives to prepare gaseous standards for calibrating UV-Ion Mobility Spectrometers. <i>Talanta</i> , 2013, 111, 111-118.	2.9	7
86	Extraction of toxic compounds from saliva by magnetic-stirring-assisted micro-solid-phase extraction step followed by headspace-gas chromatography-ion mobility spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 6813-6822.	1.9	7
87	Production of destruxins by <i>Metarhizium</i> strains under different stress conditions and their detection by using UHPLC-MS/MS. <i>Biocontrol Science and Technology</i> , 2016, 26, 1298-1311.	0.5	7
88	Discrimination of defective dry-cured Iberian ham determining volatile compounds by non-destructive sampling and gas chromatography. <i>LWT - Food Science and Technology</i> , 2022, 154, 112785.	2.5	7
89	Use of basic amphiprotic organic solvents containing neutral-surfactant aggregates as pseudostationary phase in non-aqueous capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2006, 560, 69-76.	2.6	6
90	The Role of Ion Mobility Spectrometry to Support the Food Protected Designation of Origin. <i>Comprehensive Analytical Chemistry</i> , 2013, 60, 221-249.	0.7	6

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91	Simultaneous determination of benzene and phenol in heat transfer fluid by head-space gas chromatography hyphenated with ion mobility spectrometry. <i>Talanta</i> , 2015, 144, 944-952.	2.9	6
92	Sliding window multi-curve resolution: Application to gas chromatography-ion mobility spectrometry. <i>Sensors and Actuators B: Chemical</i> , 2015, 217, 13-21.	4.0	5
93	Potential of ion mobility spectrometry versus FT-MIR and GC-MS to study the evolution of a heat transfer fluid after its heating process in a thermosolar plant. <i>Microchemical Journal</i> , 2015, 121, 163-171.	2.3	5
94	Solid phase extraction to enhance sensitivity when headspace-gas chromatography-ion mobility spectrometer is used: determination of phenol in environmental samples. <i>Analytical Methods</i> , 2016, 8, 5388-5397.	1.3	5
95	Photoionization-ion mobility spectrometer for non-targeted screening analysis or for targeted analysis coupling a Tenax TA column. <i>Sensors and Actuators B: Chemical</i> , 2016, 235, 370-377.	4.0	5
96	Membrane set up combined with photoionization-ion mobility spectrometer to improve analytical performance and avoid humidity interference on the determination of aromatics in gaseous samples. <i>Journal of Chromatography A</i> , 2016, 1431, 55-63.	1.8	5
97	Portable Raman Spectrometer as a Screening Tool for Characterization of Iberian Dry-Cured Ham. <i>Foods</i> , 2021, 10, 1177.	1.9	5
98	A non-destructive sampling method for food authentication using gas chromatography coupled to mass spectrometry or ion mobility spectrometry. <i>Food Chemistry</i> , 2022, 373, 131540.	4.2	4
99	Use of cyclodextrins for the separation of monoterpene isomers by micellar electrokinetic capillary chromatography. <i>Journal of Separation Science</i> , 2001, 13, 293-299.	1.0	2
100	CE method for analyzing <i>Salmonella typhimurium</i> in water samples. <i>Journal of Separation Science</i> , 2018, 41, 534-539.	1.3	2
101	Authentication of the Montanera Period on Carcasses of Iberian Pigs by Using Analytical Techniques and Chemometric Analyses. <i>Animals</i> , 2021, 11, 2671.	1.0	2
102	In vivo authentication of Iberian pig feeding regime using faecal volatilome information. <i>Livestock Science</i> , 2022, 260, 104913.	0.6	2
103	Innovations in analytical methods for food authenticity. , 2021, , 181-248.		1
104	Ion mobility detectors for gas chromatography. , 2021, , 425-447.		1
105	Review of the Methodologies for Measurement of Greenhouse Gas Emissions in Livestock Farming: Pig Farms as a Case of Study. <i>Critical Reviews in Analytical Chemistry</i> , 2020, , 1-19.	1.8	1
106	The ETACS European Project for testing the comparability of sensors and analysers: Part II. Field tests. <i>Accreditation and Quality Assurance</i> , 2000, 5, 293-299.	0.4	0
107	Capillary Electrophoresis as a Promising Technique to Evaluate Metabolites Secreted by Fungal Biocontrol Agents. <i>Chromatographia</i> , 2016, 79, 481-489.	0.7	0
108	Instrumental Techniques to Classify Olive Oils according to Their Quality. <i>Critical Reviews in Analytical Chemistry</i> , 2021, , 1-22.	1.8	0