

Ana Maria Afonso

List of Publications by Year in descending order

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104
papers

3,907
citations

101496

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133188

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104
docs citations

104
times ranked

3381
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic liquids in dispersive liquid-liquid microextraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2013, 51, 87-106.	5.8	246
2	Factors That Affect the Content of Heterocyclic Aromatic Amines in Foods. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2011, 10, 52-108.	5.9	215
3	The metal-organic framework HKUST-1 as efficient sorbent in a vortex-assisted dispersive micro solid-phase extraction of parabens from environmental waters, cosmetic creams, and human urine. <i>Talanta</i> , 2015, 139, 13-20.	2.9	144
4	Dispersive liquid-liquid microextraction versus single-drop microextraction for the determination of several endocrine-disrupting phenols from seawaters. <i>Talanta</i> , 2010, 80, 1611-1618.	2.9	130
5	Utilization of a benzyl functionalized polymeric ionic liquid for the sensitive determination of polycyclic aromatic hydrocarbons; parabens and alkylphenols in waters using solid-phase microextraction coupled to gas chromatography-flame ionization detection. <i>Journal of Chromatography A</i> , 2010, 1217, 7189-7197.	1.8	122
6	Metal-organic frameworks as novel sorbents in dispersive-based microextraction approaches. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 90, 114-134.	5.8	119
7	Nonionic surfactant mixtures: a new cloud-point extraction approach for the determination of PAHs in seawater using HPLC with fluorimetric detection. <i>Analytica Chimica Acta</i> , 2004, 518, 165-172.	2.6	105
8	Determination of water pollutants by direct-immersion solid-phase microextraction using polymeric ionic liquid coatings. <i>Journal of Chromatography A</i> , 2010, 1217, 1236-1243.	1.8	105
9	Surface-bonded ionic liquid stationary phases in high-performance liquid chromatography—A review. <i>Analytica Chimica Acta</i> , 2012, 714, 20-37.	2.6	103
10	A magnetic-based dispersive micro-solid-phase extraction method using the metal-organic framework HKUST-1 and ultra-high-performance liquid chromatography with fluorescence detection for determining polycyclic aromatic hydrocarbons in waters and fruit tea infusions. <i>Journal of Chromatography A</i> , 2016, 1436, 42-50.	1.8	100
11	Determination of polycyclic aromatic hydrocarbons in marine sediments by high-performance liquid chromatography after microwave-assisted extraction with micellar media. <i>Journal of Chromatography A</i> , 2000, 869, 515-522.	1.8	93
12	Analytical methods applied to the determination of heterocyclic aromatic amines in foods. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2008, 862, 15-42.	1.2	92
13	The ionic liquid 1-hexadecyl-3-methylimidazolium bromide as novel extracting system for polycyclic aromatic hydrocarbons contained in sediments using focused microwave-assisted extraction. <i>Journal of Chromatography A</i> , 2008, 1182, 145-152.	1.8	87
14	Micellar microwave-assisted extraction combined with solid-phase microextraction for the determination of polycyclic aromatic hydrocarbons in a certified marine sediment. <i>Analytica Chimica Acta</i> , 2003, 477, 81-91.	2.6	75
15	Exposure to heterocyclic aromatic amines from the consumption of cooked red meat and its effect on human cancer risk: A review. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2008, 25, 2-24.	1.1	72
16	Determination of polycyclic aromatic hydrocarbons in seawater by high-performance liquid chromatography with fluorescence detection following micelle-mediated preconcentration. <i>Journal of Chromatography A</i> , 2002, 949, 291-299.	1.8	71
17	Ionic liquids as mobile phase additives in high-performance liquid chromatography with electrochemical detection: Application to the determination of heterocyclic aromatic amines in meat-based infant foods. <i>Talanta</i> , 2009, 79, 590-597.	2.9	67
18	Magnetic ionic liquids as non-conventional extraction solvents for the determination of polycyclic aromatic hydrocarbons. <i>Analytica Chimica Acta</i> , 2016, 934, 106-113.	2.6	64

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19	Ionic liquids as a tool for determination of metals and organic compounds in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1598-1619.	5.8	63
20	Utilization of highly robust and selective crosslinked polymeric ionic liquid-based sorbent coatings in direct-immersion solid-phase microextraction and high-performance liquid chromatography for determining polar organic pollutants in waters. <i>Talanta</i> , 2016, 158, 125-133.	2.9	60
21	In-situ ionic liquid-dispersive liquid-liquid microextraction method to determine endocrine disrupting phenols in seawaters and industrial effluents. <i>Mikrochimica Acta</i> , 2011, 174, 213-222.	2.5	59
22	A novel in situ preconcentration method with ionic liquid-based surfactants resulting in enhanced sensitivity for the extraction of polycyclic aromatic hydrocarbons from toasted cereals. <i>Journal of Chromatography A</i> , 2012, 1227, 29-37.	1.8	58
23	An in-situ extraction-preconcentration method using ionic liquid-based surfactants for the determination of organic contaminants contained in marine sediments. <i>Talanta</i> , 2012, 99, 972-983.	2.9	57
24	Polymeric ionic liquid coatings versus commercial solid-phase microextraction coatings for the determination of volatile compounds in cheeses. <i>Talanta</i> , 2014, 121, 153-162.	2.9	55
25	Vacuum-assisted headspace-solid phase microextraction for determining volatile free fatty acids and phenols. Investigations on the effect of pressure on competitive adsorption phenomena in a multicomponent system. <i>Analytica Chimica Acta</i> , 2017, 962, 41-51.	2.6	53
26	Solid-phase microextraction coupled with high-performance liquid chromatography for the analysis of heterocyclic aromatic amines. <i>Journal of Chromatography A</i> , 2004, 1030, 87-93.	1.8	52
27	Insights in the analytical performance of neat metal-organic frameworks in the determination of pollutants of different nature from waters using dispersive miniaturized solid-phase extraction and liquid chromatography. <i>Talanta</i> , 2018, 179, 775-783.	2.9	52
28	Ionic liquids as desorption solvents and memory effect suppressors in heterocyclic aromatic amines determination by SPME-HPLC fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 937-946.	1.9	49
29	Emissions of polycyclic aromatic hydrocarbons from combustion of agricultural and silvicultural debris. <i>Atmospheric Environment</i> , 2005, 39, 6654-6663.	1.9	48
30	Determination of less polar heterocyclic amines in meat extracts. <i>Analytica Chimica Acta</i> , 2007, 582, 259-266.	2.6	43
31	Fast microwave-assisted dansylation of N-nitrosamines. <i>Journal of Chromatography A</i> , 2002, 946, 133-140.	1.8	42
32	Use of ionic liquid aggregates of 1-hexadecyl-3-butyl imidazolium bromide in a focused-microwave assisted extraction method followed by high-performance liquid chromatography with ultraviolet and fluorescence detection to determine the 15+1 EU priority PAHs in toasted cereals (çöçofiosçö). <i>Talanta</i> , 2011, 85, 1199-1206.	2.9	42
33	Influence of Ligand Functionalization of UiO-66-Based Metal-Organic Frameworks When Used as Sorbents in Dispersive Solid-Phase Analytical Microextraction for Different Aqueous Organic Pollutants. <i>Molecules</i> , 2018, 23, 2869.	1.7	40
34	Optimizing Conditions for the Extraction of Pigments in Cochineals (<i>Dactylopius coccus</i> Costa) Using Response Surface Methodology. <i>Journal of Agricultural and Food Chemistry</i> , 2002, 50, 6968-6974.	2.4	38
35	Ultrasonic micellar extraction of polycyclic aromatic hydrocarbons from marine sediments. <i>Talanta</i> , 2001, 54, 15-23.	2.9	36
36	Developing qualitative extraction profiles of coffee aromas utilizing polymeric ionic liquid sorbent coatings in headspace solid-phase microextraction gas chromatography-mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2965-2976.	1.9	36

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37	Solid-phase microextraction coatings based on the metal-organic framework ZIF-8: Ensuring stable and reusable fibers. <i>Talanta</i> , 2020, 215, 120910.	2.9	36
38	Polycyclic Aromatic Hydrocarbons in Smoke Used to Smoke Cheese Produced by the Combustion of Rock Rose (<i>Cistus monspeliensis</i>) and Tree Heather (<i>Erica arborea</i>) Wood. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 176-182.	2.4	35
39	Metabolism and toxicology of heterocyclic aromatic amines when consumed in diet: Influence of the genetic susceptibility to develop human cancer. A review. <i>Food Research International</i> , 2008, 41, 327-340.	2.9	34
40	A green metal-organic framework to monitor water contaminants. <i>RSC Advances</i> , 2018, 8, 31304-31310.	1.7	34
41	Coupling the extraction efficiency of imidazolium-based ionic liquid aggregates with solid-phase microextraction-gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2008, 1214, 23-29.	1.8	33
42	Interfacial and aggregation behavior of dicationic and tricationic ionic liquid-based surfactants in aqueous solution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 469, 224-234.	2.3	32
43	Solid-Phase Microextraction Coupled to Gas Chromatography/Mass Spectrometry for Determining Polycyclic Aromatic Hydrocarbon-Micelle Partition Coefficients. <i>Analytical Chemistry</i> , 2004, 76, 4572-4578.	3.2	31
44	Ionic liquids versus ionic liquid-based surfactants in dispersive liquid-liquid microextraction for determining copper in water by flame atomic absorption spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2016, 96, 101-118.	1.8	31
45	Guanidinium ionic liquid-based surfactants as low cytotoxic extractants: Analytical performance in an in-situ dispersive liquid-liquid microextraction method for determining personal care products. <i>Journal of Chromatography A</i> , 2018, 1559, 102-111.	1.8	31
46	Cloud-point preconcentration and HPLC determination of polycyclic aromatic hydrocarbons in marine sediments. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 371, 526-531.	1.5	29
47	Micelle-mediated extractions using nonionic surfactant mixtures and HPLC-UV to determine endocrine-disrupting phenols in seawaters. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 735-744.	1.9	27
48	Rapid microwave-assisted dansylation of biogenic amines. <i>Journal of Chromatography A</i> , 1998, 808, 87-93.	1.8	26
49	Headspace-single drop microextraction (HS-SDME) in combination with high-performance liquid chromatography (HPLC) to evaluate the content of alkyl- and methoxy-phenolic compounds in biomass smoke. <i>Talanta</i> , 2011, 85, 1265-1273.	2.9	26
50	Double salts of ionic-liquid-based surfactants in microextraction: application of their mixed hemimicelles as novel sorbents in magnetic-assisted micro-dispersive solid-phase extraction for the determination of phenols. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8753-8764.	1.9	26
51	Automated direct-immersion solid-phase microextraction using crosslinked polymeric ionic liquid sorbent coatings for the determination of water pollutants by gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4615-4627.	1.9	25
52	Salt-induced ionic liquid-based microextraction using a low cytotoxic guanidinium ionic liquid and liquid chromatography with fluorescence detection to determine monohydroxylated polycyclic aromatic hydrocarbons in urine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 4701-4713.	1.9	25
53	Focused microwave-assisted micellar extraction combined with solid-phase microextraction-gas chromatography/mass spectrometry to determine chlorophenols in wood samples. <i>Analytica Chimica Acta</i> , 2007, 582, 10-18.	2.6	24
54	Simultaneous synchronous fluorimetric determination of benzo[a]pyrene and perylene in micellar media. <i>Analytica Chimica Acta</i> , 1991, 255, 107-111.	2.6	22

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55	Suitability of ionic liquids as mobile phase additives in HPLC with fluorescence and UV detection for the determination of heterocyclic aromatic amines. <i>Journal of Separation Science</i> , 2010, 33, 182-190.	1.3	22
56	Experimental Design Optimization of Solid-Phase Microextraction Conditions for the Determination of Heterocyclic Aromatic Amines by High-Performance Liquid Chromatography. <i>Analytical Letters</i> , 2006, 39, 405-423.	1.0	19
57	Multiple headspace solid-phase microextraction for quantifying volatile free fatty acids in cheeses. <i>Talanta</i> , 2014, 129, 183-190.	2.9	19
58	Effects of cetylpyridinium bromide micelles on the spectrofluorimetric characteristics of polycyclic aromatic hydrocarbons. <i>Talanta</i> , 1997, 44, 257-267.	2.9	18
59	Study of the interactions between phenolic compounds and micellar media using micellar solid-phase microextraction/gas chromatography. <i>Journal of Chromatography A</i> , 2005, 1099, 64-74.	1.8	18
60	A novel preconcentration strategy for extraction methods based on common cationic surfactants: An alternative to classical coacervative extraction. <i>Journal of Chromatography A</i> , 2012, 1257, 9-18.	1.8	18
61	Fluorescence Quenching of Polycyclic Aromatic Hydrocarbons by Cetylpyridinium Bromide: Discrimination between Alternant and Nonalternant Hydrocarbons. <i>Applied Spectroscopy</i> , 1997, 51, 380-386.	1.2	17
62	Effect of non-ionic surfactants as mobile phase additives on the fluorescence intensity of dansyl derivatives of biogenic amines in high-performance thin-layer chromatography. <i>Analyst</i> , 1998, 123, 725-729.	1.7	17
63	Micellar Extraction of Polycyclic Aromatic Hydrocarbons from Certified Marine Sediment. <i>International Journal of Environmental Analytical Chemistry</i> , 2001, 81, 281-294.	1.8	17
64	Optimization of an analytical methodology for the determination of alkyl- and methoxy-phenolic compounds by HS-SPME in biomass smoke. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1162-1171.	1.9	17
65	Optimization of a sampling method to determine polycyclic aromatic hydrocarbons in smoke from incomplete biomass combustion. <i>Analytica Chimica Acta</i> , 2004, 524, 287-294.	2.6	15
66	Determination of the alkyl- and methoxy-phenolic content in wood extractives by micellar solid-phase microextraction and gas chromatography-mass spectrometry. <i>Talanta</i> , 2007, 73, 505-513.	2.9	15
67	Selective Analysis of Fluorene by Quenched Fluorescence in Cetylpyridinium Bromide Micelles. <i>Microchemical Journal</i> , 1998, 60, 101-109.	2.3	13
68	Coupling micelle-mediated extraction using mixtures of surfactants and fluorescence measurements with a fiber-optic for the screening of PAHs in seawater. <i>Analyst</i> , 2005, 130, 571-577.	1.7	13
69	Focused Microwave-Assisted Extraction and HPLC with Electrochemical Detection to Determine Heterocyclic Amines in Meat Extracts. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 27-42.	0.5	13
70	Utilization of an ionic liquid <i>in situ</i> preconcentration method for the determination of the 15 + 1 European Union polycyclic aromatic hydrocarbons in drinking water and fruit-tea infusions. <i>Journal of Separation Science</i> , 2013, 36, 2496-2506.	1.3	13
71	Ionic liquid-based miniaturized aqueous biphasic system to develop an environmental-friendly analytical preconcentration method. <i>Talanta</i> , 2019, 203, 305-313.	2.9	13
72	Monitoring chlorophenols in industrial effluents by solid-phase microextraction-gas chromatography-mass spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2007, 87, 159-175.	1.8	12

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73	A simplified vortex-assisted emulsification microextraction method for determining personal care products in environmental water samples by ultra-high-performance liquid chromatography. <i>Analytical Methods</i> , 2015, 7, 1825-1833.	1.3	12
74	Quantitative Analysis of Biogenic Amines by High-Performance Thin-Layer Chromatography Utilizing a Fibre Optic Fluorescence Detector. <i>Analytical Letters</i> , 1998, 31, 475-489.	1.0	11
75	Monitoring polycyclic aromatic hydrocarbons in seawaters and wastewaters using a dispersive liquid-liquid microextraction method. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 607-616.	1.2	11
76	Monitoring trihalomethanes and nitrogenous disinfection by-products in blending desalinated waters using solid-phase microextraction and gas chromatography. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 911-922.	1.2	11
77	Influence of vegetable coagulant and ripening time on the lipolytic and sensory profile of cheeses made with raw goat milk from Canary breeds. <i>Food Science and Technology International</i> , 2017, 23, 254-264.	1.1	11
78	A guanidinium ionic liquid-based surfactant as an adequate solvent to separate and preconcentrate cadmium and copper in water using <i>in situ</i> dispersive liquid-liquid microextraction. <i>Analytical Methods</i> , 2018, 10, 1529-1537.	1.3	11
79	Use of a pH-sensitive polymer in a microextraction and preconcentration method directly combined with high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2020, 1619, 460910.	1.8	10
80	DETERMINATION OF N-NITROSODIMETHYLAMINE BY HPLC, WITH FLUORESCENCE DETECTION. A SURVEY OF N-NITROSODIMETHYLAMINE IN COMMERCIAL BEERS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002, 25, 977-984.	0.5	9
81	Biosynthesis of Antitumoral and Bactericidal Sanguinarine. <i>Journal of Biomedicine and Biotechnology</i> , 2006, 2006, 1-6.	3.0	9
82	Vortex-assisted emulsification microextraction followed by in-syringe ultrasound-assisted back-microextraction to determine haloacetic acids in waters. <i>Analytical Methods</i> , 2014, 6, 4115-4123.	1.3	9
83	Correlations Between Phenols-Micelles Partition Coefficients and Several Molecular Descriptors. An Approach to Predict the Phenols Behaviour in MSPME. <i>Chromatographia</i> , 2006, 63, 167-174.	0.7	8
84	Estimation of Uncertainty in the Analysis of Carbonyl Compounds by HPLC-UV Using DNPH Derivatization. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 31, 361-381.	0.5	8
85	Spectrofluorimetric determination of zinc with pyrocatechol-1-aldehyde 2-pyridylhydrazone. <i>Analyst</i> , 1986, 111, 327.	1.7	7
86	Reversed Phase Liquid Chromatographic Method for Separation and Determination of Positional Isomeric Mono- and Di-substituted Anilines and Phenols on an R,S-2-Hydroxypropyl Ether β -Cyclodextrin Column. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2003, 26, 1-15.	0.5	7
87	Kinetic spectrofluorimetric determination of silver, based on its catalytic effect on the oxidation of pyrocatechol-1-aldehyde 2-pyridylhydrazone by peroxodisulphate in the presence of 1,10-phenanthroline as activator. <i>Talanta</i> , 1986, 33, 779-783.	2.9	5
88	Spectrofluorimetric determination of carbaryl and 1-naphthol in micellar media. <i>Mikrochimica Acta</i> , 1991, 103, 171-179.	2.5	5
89	Effects of cationic micelles on fluorescence of indole and indolecarboxylic acids. <i>Analytical determinations. Mikrochimica Acta</i> , 1995, 118, 153-162.	2.5	5
90	Selective determination of acenaphthene in mixtures of three-ring polycyclic aromatic hydrocarbons by fluorescence quenching in micellar medium of cetylpyridinium bromide. <i>Journal of Fluorescence</i> , 1997, 7, 147-153.	1.3	5

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91	Micellar solid-phase microextraction for determining partition coefficients of substituted polycyclic aromatic hydrocarbons in micellar media: possible prediction of hydrocarbonâ€™ micelle behaviour. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2271-2281.	1.9	5
92	Monitoring trihalomethanes in chlorinated waters using a dispersive liquidâ€™liquid microextraction method with a non-chlorinated organic solvent and gas chromatographyâ€™mass spectrometry. <i>Environmental Technology (United Kingdom)</i> , 2017, 38, 718-729.	1.2	5
93	Spectrofluorometric determination of zinc with 1,5-bis(2,3-dihydroxyphenylmethylene) thiocarbohydrazone. <i>Analytica Chimica Acta</i> , 1987, 202, 207-213.	2.6	4
94	Bioluminescence, chemiluminescence. <i>Fresenius' Journal of Analytical Chemistry</i> , 1990, 337, 86-96.	1.5	4
95	Degradation of carbaryl in natural waters: Enhanced hydrolysis rate in micellar solution. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1992, 48, 171-8.	1.3	4
96	NON-LINEAR CALIBRATION IN QUANTITATIVE ANALYSIS BY HPTLC UTILIZING A FIBRE OPTIC FLUORESCENCE DETECTOR. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2000, 23, 2653-2668.	0.5	4
97	Evaluation of the Uncertainty Associated to the Determination of Heavy Metals in Seawater Using Graphite Furnace Atomic Absorption Spectrometry. <i>Analytical Letters</i> , 2007, 40, 3322-3342.	1.0	4
98	Effect of the inclusion of banana silage in the diet of goats on physicochemical and sensory characteristics of cheeses at different ripening times. <i>Small Ruminant Research</i> , 2017, 149, 52-61.	0.6	4
99	Pyrocatechol-1-Aldehyde 2-Benzothiazolyhydrazone As Reagent for the Spectrofluorimetric Determination of Nanogram Amounts of Gallium in Urine and Blood Serum. <i>Analytical Letters</i> , 1985, 18, 1003-1012.	1.0	3
100	Pyrocatechol-1-aldehyde salicyloylhydrazone as reagent for the spectrofluorimetric determination of zinc. <i>Mikrochimica Acta</i> , 1984, 83, 53-60.	2.5	2
101	Analytical Applications of Ionic Liquids in Chromatographic and Electrophoretic Separation Techniques. <i>Green Chemistry and Sustainable Technology</i> , 2016, , 193-233.	0.4	2
102	1,5-bis-(2,3-dihydroxy-phenylmethylene)-thiocarbohydrazone as reagent for the spectrofluorimetric determination of nanogram amounts of gallium. <i>Mikrochimica Acta</i> , 1990, 100, 55-61.	2.5	1
103	Determination of carbonyl compounds in smoke samples: strategies for sampling and standardization. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1043.	2.1	1
104	Ionic liquids and derivatives in gas chromatography. , 2016, , 45-82.		1