Juan H Ayala DÃ-az

List of Publications by Year
in descending order

81 papers	2,440 citations	172386 29 h-index	223716 46 g-index
84 all docs	84 docs citations	84 times ranked	2290 citing authors

#	Article	IF	Citations
1	The metalâ€“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. Talanta, 2015, 139, 13-20.	2.9	144
2	Nonionic surfactant mixtures: a new cloud-point extraction approach for the determination of PAHs in seawater using HPLC with fluorimetric detection. Analytica Chimica Acta, 2004, 518, 165-172.	2.6	105
3	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. Journal of Chromatography A, 2016, 1436, 42-50.	1.8	100
4	Determination of polycyclic aromatic hydrocarbons in marine sediments by high-performance liquid chromatography after microwave-assisted extraction with micellar media. Journal of Chromatography A, 2000, 869, 515-522.	1.8	93
5	Analytical methods applied to the determination of heterocyclic aromatic amines in foods. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2008, 862, 15-42.	1.2	92
6	The ionic liquid 1-hexadecyl-3-methylimidazolium bromide as novel extracting system for polycyclic aromatic hydrocarbons contained in sediments using focused microwave-assisted extraction. Journal of Chromatography A, 2008, 1182, 145-152.	1.8	87
7	Micellar microwave-assisted extraction combined with solid-phase microextraction for the determination of polycyclic aromatic hydrocarbons in a certified marine sediment. Analytica Chimica Acta, 2003, 477, 81-91.	2.6	75
8	Determination of polycyclic aromatic hydrocarbons in seawater by high-performance liquid chromatography with fluorescence detection following micelle-mediated preconcentration. Journal of Chromatography A, 2002, 949, 291-299.	1.8	71
9	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. Talanta, 2009, 79, 590-597.	2.9	67
10	Magnetic ionic liquids as non-conventional extraction solvents for the determination of polycyclic aromatic hydrocarbons. Analytica Chimica Acta, 2016, 934, 106-113.	2.6	64
11	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. Talanta, 2016, 158, 125-133.	2.9	60
12	In-situ ionic liquid-dispersive liquid-liquid microextraction method to determine endocrine disrupting phenols in seawaters and industrial effluents. Mikrochimica Acta, 2011, 174, 213-222.	2.5	59
13	An in-situ extractionâ€“preconcentration method using ionic liquid-based surfactants for the determination of organic contaminants contained in marine sediments. Talanta, 2012, 99, 972-983.	2.9	57
14	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. Analytica Chimica Acta, 2017, 962, 41-51.	2.6	53
15	Solid-phase microextraction coupled with high-performance liquid chromatography for the analysis of heterocyclic aromatic amines. Journal of Chromatography A, 2004, 1030, 87-93.	1.8	52
16	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. Talanta, 2018, 179, 775-783.	2.9	52
17	Ionic liquids as desorption solvents and memory effect suppressors in heterocyclic aromatic amines determination by SPMEâ€“HPLC fluorescence. Analytical and Bioanalytical Chemistry, 2009, 394, 937-946.	1.9	49
18	Emissions of polycyclic aromatic hydrocarbons from combustion of agricultural and sylvicultural debris. Atmospheric Environment, 2005, 39, 6654-6663.	1.9	48

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19	Evolution and current advances in sorbent-based microextraction configurations. Journal of Chromatography A, 2020, 1634, 461670.	1.8	44
20	Determination of less polar heterocyclic amines in meat extracts. Analytica Chimica Acta, 2007, 582, 259-266.	2.6	43
21	Fast microwave-assisted dansylation of N-nitrosamines. Journal of Chromatography A, 2002, 946, 133-140.	1.8	42
22	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. Molecules, 2018, 23, 2869.	1.7	40
23	Ultrasonic micellar extraction of polycyclic aromatic hydrocarbons from marine sediments. Talanta, 2001, 54, 15-23.	2.9	36
24	Solid-phase microextraction coatings based on the metal-organic framework ZIF-8: Ensuring stable and reusable fibers. Talanta, 2020, 215, 120910.	2.9	36
25	Polycyclic Aromatic Hydrocarbons in Smoke Used to Smoke Cheese Produced by the Combustion of Rock Rose (Cistus monspeliensis) and Tree Heather (Erica arborea) Wood. Journal of Agricultural and Food Chemistry, 2005, 53, 176-182.	2.4	35
26	A green metalâ€“organic framework to monitor water contaminants. RSC Advances, 2018, 8, 31304-31310.	1.7	34
27	Solid-Phase Microextraction Coupled to Gas Chromatography/Mass Spectrometry for Determining Polycyclic Aromatic Hydrocarbonâ'Micelle Partition Coefficients. Analytical Chemistry, 2004, 76, 4572-4578.	3.2	31
28	Guanidinium ionic liquid-based surfactants as low cytotoxic extractants: Analytical performance in an in-situ dispersive liquidâ€“liquid microextraction method for determining personal care products. Journal of Chromatography A, 2018, 1559, 102-111.	1.8	31
29	Green solid-phase microextraction fiber coating based on the metal-organic framework CIM-80(Al): Analytical performance evaluation in direct immersion and headspace using gas chromatography and mass spectrometry for the analysis of water, urine and brewed coffee. Analytica Chimica Acta, 2020, 1133, 137-149.	2.6	30
30	Cloud-point preconcentration and HPLC determination of polycyclic aromatic hydrocarbons in marine sediments. Fresenius' Journal of Analytical Chemistry, 2001, 371, 526-531.	1.5	29
31	Micelle-mediated extractions using nonionic surfactant mixtures and HPLC-UV to determine endocrine-disrupting phenols in seawaters. Analytical and Bioanalytical Chemistry, 2008, 391, 735-744.	1.9	27
32	Rapid microwave-assisted dansylation of biogenic amines. Journal of Chromatography A, 1998, 808, 87-93.	1.8	26
33	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. Talanta, 2011, 85, 1265-1273.	2.9	26
34	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. Analytical and Bioanalytical Chemistry, 2015, 407, 8753-8764.	1.9	26
35	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. Analytical and Bioanalytical Chemistry, 2018, 410, 4701-4713.	1.9	25
36	Focused microwave-assisted micellar extraction combined with solid-phase microextractionâ€”gas chromatography/mass spectrometry to determine chlorophenols in wood samples. Analytica Chimica Acta, 2007, 582, 10-18.	2.6	24

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37	Suitability of ionic liquids as mobileâ€phase additives in HPLC with fluorescence and UV detection for the determination of heterocyclic aromatic amines. Journal of Separation Science, 2010, 33, 182-190.	1.3	22
38	Headspace solid-phase microextraction based on the metal-organic framework CIM-80(Al) coating to determine volatile methylsiloxanes and musk fragrances in water samples using gas chromatography and mass spectrometry. Talanta, 2021, 232, 122440.	2.9	21
39	Application of a Pillared-Layer Zn-Triazolate Metal-Organic Framework in the Dispersive Miniaturized Solid-Phase Extraction of Personal Care Products from Wastewater Samples. Molecules, 2019, 24, 690.	1.7	20
40	Experimental Design Optimization of Solidâ€Phase Microextraction Conditions for the Determination of Heterocyclic Aromatic Amines by Highâ€Performance Liquid Chromatography. Analytical Letters, 2006, 39, 405-423.	1.0	19
41	Multiple headspace solid-phase microextraction for quantifying volatile free fatty acids in cheeses. Talanta, 2014, 129, 183-190.	2.9	19
42	Effects of cetylpyridinium bromide micelles on the spectrofluorimetric characteristics of polycyclic aromatic hydrocarbons. Talanta, 1997, 44, 257-267.	2.9	18
43	Study of the interactions between phenolic compounds and micellar media using micellar solid-phase microextraction/gas chromatography. Journal of Chromatography A, 2005, 1099, 64-74.	1.8	18
44	A novel preconcentration strategy for extraction methods based on common cationic surfactants: An alternative to classical coacervative extraction. Journal of Chromatography A, 2012, 1257, 9-18.	1.8	18
45	Fluorescence Quenching of Polycyclic Aromatic Hydrocarbons by Cetylpyridinium Bromide: Discrimination between Alternant and Nonalternant Hydrocarbons. Applied Spectroscopy, 1997, 51, 380-386.	1.2	17
46	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. Analyst, The, 1998, 123, 725-729.	1.7	17
47	Micellar Extraction of Polycyclic Aromatic Hydrocarbons from Certified Marine Sediment. International Journal of Environmental Analytical Chemistry, 2001, 81, 281-294.	1.8	17
48	Optimization of an analytical methodology for the determination of alkyl- and methoxy-phenolic compounds by HS-SPME in biomass smoke. Analytical and Bioanalytical Chemistry, 2006, 385, 1162-1171.	1.9	17
49	Optimization of a sampling method to determine polycyclic aromatic hydrocarbons in smoke from incomplete biomass combustion. Analytica Chimica Acta, 2004, 524, 287-294.	2.6	15
50	Determination of the alkyl- and methoxy-phenolic content in wood extractives by micellar solid-phase microextraction and gas chromatographyâ€“mass spectrometry. Talanta, 2007, 73, 505-513.	2.9	15
51	Mixed Functionalization of Organic Ligands in UiO-66: A Tool to Design Metalâ€“Organic Frameworks for Tailored Microextraction. Molecules, 2019, 24, 3656.	1.7	15
52	Selective Analysis of Fluorene by Quenched Fluorescence in Cetylpyridinium Bromide Micelles. Microchemical Journal, 1998, 60, 101-109.	2.3	13
53	Coupling micelle-mediated extraction using mixtures of surfactants and fluorescence measurements with a fiber-optic for the screening of PAHs in seawater. Analyst, The, 2005, 130, 571-577.	1.7	13
54	Focused Microwaveâ€Assisted Extraction and HPLC with Electrochemical Detection to Determine Heterocyclic Amines in Meat Extracts. Journal of Liquid Chromatography and Related Technologies, 2007, 30, 27-42.	0.5	13

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55	Utilization of an ionic liquid in situ preconcentration method for the determination of the 15 + 1 European Union polycyclic aromatic hydrocarbons in drinking water and fruitâ€tea infusions. Journal of Separation Science, 2013, 36, 2496-2506.	1.3	13
56	Ionic liquid-based miniaturized aqueous biphasic system to develop an environmental-friendly analytical preconcentration method. Talanta, 2019, 203, 305-313.	2.9	13
57	Monitoring chlorophenols in industrial effluents by solid-phase microextractionâ€“gas chromatographyâ€“mass spectrometry. International Journal of Environmental Analytical Chemistry, 2007, 87, 159-175.	1.8	12
58	A simplified vortex-assisted emulsification microextraction method for determining personal care products in environmental water samples by ultra-high-performance liquid chromatography. Analytical Methods, 2015, 7, 1825-1833.	1.3	12
59	Evaluation of Structurally Different Ionic Liquid-Based Surfactants in a Green Microwave-Assisted Extraction for the Flavonoids Profile Determination of Mangifera sp. and Passiflora sp. Leaves from Canary Islands. Molecules, 2020, 25, 4734.	1.7	12
60	Monitoring trihalomethanes and nitrogenous disinfection by-products in blending desalinated waters using solid-phase microextraction and gas chromatography. Environmental Technology (United Kingdom), 2017, 38, 911-922.	1.2	11
61	Influence of vegetable coagulant and ripening time on the lipolytic and sensory profile of cheeses made with raw goat milk from Canary breeds. Food Science and Technology International, 2017, 23, 254-264.	1.1	11
62	A guanidinium ionic liquid-based surfactant as an adequate solvent to separate and preconcentrate cadmium and copper in water using in situ dispersive liquidâ€“liquid microextraction. Analytical Methods, 2018, 10, 1529-1537.	1.3	11
63	Use of a pH-sensitive polymer in a microextraction and preconcentration method directly combined with high-performance liquid chromatography. Journal of Chromatography A, 2020, 1619, 460910.	1.8	10
64	DETERMINATION OF N-NITROSODIMETHYLAMINE BY HPLC, WITH FLUORESCENCE DETECTION. A SURVEY OF N-NITROSODIMETHYLAMINE IN COMMERCIAL BEERS. Journal of Liquid Chromatography and Related Technologies, 2002, 25, 977-984.	0.5	9
65	Biosynthesis of Antitumoral and Bactericidal Sanguinarine. Journal of Biomedicine and Biotechnology, 2006, 2006, 1-6.	3.0	9
66	Vortex-assisted emulsification microextraction followed by in-syringe ultrasound-assisted back-microextraction to determine haloacetic acids in waters. Analytical Methods, 2014, 6, 4115-4123.	1.3	9
67	Insights into Paraben Adsorption by Metalâ€“Organic Frameworks for Analytical Applications. ACS Applied Materials & Interfaces, 2021, 13, 45639-45650.	4.0	9
68	Correlations Between Phenols-Micelles Partition Coefficients and Several Molecular Descriptors. An Approach to Predict the Phenols Behaviour in MSPME. Chromatographia, 2006, 63, 167-174.	0.7	8
69	Estimation of Uncertainty in the Analysis of Carbonyl Compounds by HPLCâ€UV Using DNPH Derivatization. Journal of Liquid Chromatography and Related Technologies, 2007, 31, 361-381.	0.5	8
70	Ionic Liquid-based Surfactants: A Step Forward. RSC Smart Materials, 2017, , 53-78.	0.1	8
71	Spectrofluorimetric determination of carbaryl and 1-naphthol in micellar media. Mikrochimica Acta, 1991, 103, 171-179.	2.5	5
72	Effects of cationic micelles on fluorescence of indole and indolecarboxylic acids. Analytical determinations. Mikrochimica Acta, 1995, 118, 153-162.	2.5	5

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73	Selective determination of acenaphthene in mixtures of three-ring polycyclic aromatic hydrocarbons by fluorescence quenching in micellar medium of cetylpyridinium bromide. Journal of Fluorescence, 1997, 7, 147-153.	1.3	5
74	Micellar solid-phase microextraction for determining partition coefficients of substituted polycyclic aromatic hydrocarbons in micellar media: possible prediction of hydrocarbonâ€“micelle behaviour. Analytical and Bioanalytical Chemistry, 2007, 387, 2271-2281.	1.9	5
75	Monitoring trihalomethanes in chlorinated waters using a dispersive liquidâ€“liquid microextraction method with a non-chlorinated organic solvent and gas chromatographyâ€“mass spectrometry. Environmental Technology (United Kingdom), 2017, 38, 718-729.	1.2	5
76	Degradation of carbaryl in natural waters: Enhanced hydrolysis rate in micellar solution. Bulletin of Environmental Contamination and Toxicology, 1992, 48, 171-8.	1.3	4
77	NON-LINEAR CALIBRATION IN QUANTITATIVE ANALYSIS BY HPTLC UTILIZING A FIBRE OPTIC FLUORESCENCE DETECTOR. Journal of Liquid Chromatography and Related Technologies, 2000, 23, 2653-2668.	0.5	4
78	Evaluation of the Uncertainty Associated to the Determination of Heavy Metals in Seawater Using Graphite Furnace Atomic Absorption Spectrometry. Analytical Letters, 2007, 40, 3322-3342.	1.0	4
79	Effect of the inclusion of banana silage in the diet of goats on physicochemical and sensory characteristics of cheeses at different ripening times. Small Ruminant Research, 2017, 149, 52-61.	0.6	4
80	A green miniaturized aqueous biphasic system prepared with cholinium chloride and a phosphate salt to extract and preconcentrate personal care products in wastewater samples. Journal of Chromatography A, 2021, 1648, 462219.	1.8	3
81	Determination of carbonyl compounds in smoke samples: strategies for sampling and standardization. Journal of Environmental Monitoring, 2009, 11, 1043.	2.1	1