

Jorge Moreda-Piñeiro

List of Publications by Year in descending order

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96
papers

2,341
citations

172457

29
h-index

265206

42
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96
all docs

96
docs citations

96
times ranked

2224
citing authors

#	ARTICLE	IF	CITATIONS
1	In-vivo and in-vitro testing to assess the bioaccessibility and the bioavailability of arsenic, selenium and mercury species in food samples. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 324-345.	11.4	142
2	As, Hg, and Se Flue Gas Sampling in a Coal-Fired Power Plant and Their Fate during Coal Combustion. <i>Environmental Science & Technology</i> , 2003, 37, 5262-5267.	10.0	106
3	Influence of marine, terrestrial and anthropogenic sources on ionic and metallic composition of rainwater at a suburban site (northwest coast of Spain). <i>Atmospheric Environment</i> , 2014, 88, 30-38.	4.1	66
4	Assessment of the bioavailability of toxic and non-toxic arsenic species in seafood samples. <i>Food Chemistry</i> , 2012, 130, 552-560.	8.2	60
5	Trace metals in marine foodstuff: Bioavailability estimation and effect of major food constituents. <i>Food Chemistry</i> , 2012, 134, 339-345.	8.2	56
6	Recent advances in combining microextraction techniques for sample pre-treatment. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 71, 265-274.	11.4	54
7	Bioavailability assessment of essential and toxic metals in edible nuts and seeds. <i>Food Chemistry</i> , 2016, 205, 146-154.	8.2	52
8	Determination of trace metals (As, Cd, Hg, Pb and Sn) in marine sediment slurry samples by electrothermal atomic absorption spectrometry using palladium as a chemical modifier. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996, 51, 1235-1244.	2.9	48
9	In vivo and in vitro testing for selenium and selenium compounds bioavailability assessment in foodstuff. <i>Critical Reviews in Food Science and Nutrition</i> , 2017, 57, 805-833.	10.3	47
10	Use of flow injection cold vapour generation and preconcentration on coated graphite tubes for the determination of cadmium in sea-water by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 1081-1086.	3.0	46
11	Selective medium reactions for the `arsenic(III)', `arsenic(V)', dimethylarsonic acid and monomethylarsonic acid determination in waters by hydride generation on-line electrothermal atomic absorption spectrometry with in situ preconcentration on Zr-coated graphite tubes. <i>Analytica Chimica Acta</i> , 1998, 374, 231-240.	5.4	46
12	Usefulness of the chemical modification and the multi-injection technique approaches in the electrothermal atomic absorption spectrometric determination of silver, arsenic, cadmium, chromium, mercury, nickel and lead in sea-water. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 777-786.	3.0	46
13	Speciation of the bio-available iodine and bromine forms in edible seaweed by high performance liquid chromatography hyphenated with inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2012, 745, 24-32.	5.4	46
14	Simultaneous pressurized enzymatic hydrolysis extraction and clean up for arsenic speciation in seafood samples before high performance liquid chromatographyâ€“inductively coupled plasma-mass spectrometry determination. <i>Analytica Chimica Acta</i> , 2010, 679, 63-73.	5.4	45
15	Slurry Sampling Electrothermal Atomic Absorption Spectrometric Determination of Lead, Cadmium and Manganese in Human Hair Samples Using Rapid Atomizer Programs. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 301-306.	3.0	44
16	Influence of several experimental parameters on As and Se leaching from coal fly ash samples. <i>Analytica Chimica Acta</i> , 2005, 531, 299-305.	5.4	44
17	Matrix Solid-Phase Dispersion as a Sample Pretreatment for the Speciation of Arsenic in Seafood Products. <i>Analytical Chemistry</i> , 2008, 80, 9272-9278.	6.5	42
18	Application of fast ultrasound water-bath assisted enzymatic hydrolysis â€“ High performance liquid chromatographyâ€“inductively coupled plasma-mass spectrometry procedures for arsenic speciation in seafood materials. <i>Journal of Chromatography A</i> , 2011, 1218, 6970-6980.	3.7	42

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19	In vitro bioavailability of total selenium and selenium species from seafood. <i>Food Chemistry</i> , 2013, 139, 872-877.	8.2	40
20	Direct determination of dissolved selenium (vi) and selenium (vi) in sea-water by continuous flow hydride generation atomic fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 289-293.	3.0	37
21	Multivariate optimisation of hydride generation procedures for single element determinations of As, Cd, Sb and Se in natural waters by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2001, 53, 871-883.	5.5	37
22	Development of a new sample pre-treatment procedure based on pressurized liquid extraction for the determination of metals in edible seaweed. <i>Analytica Chimica Acta</i> , 2007, 598, 95-102.	5.4	37
23	Pressurized liquid extraction of organometals and its feasibility for total metal extraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2006, 25, 511-519.	11.4	36
24	Palladium as a chemical modifier for the determination of mercury in marine sediment slurries by electrothermal atomization atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1994, 296, 181-193.	5.4	35
25	Determination of major and trace elements in human scalp hair by pressurized-liquid extraction with acetic acid and inductively coupled plasma-optical-emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 388, 441-449.	3.7	35
26	Determination of organotin compounds in waters by headspace solid phase microextraction gas chromatography triple quadrupole tandem mass spectrometry under the European Water Framework Directive. <i>Journal of Chromatography A</i> , 2015, 1385, 85-93.	3.7	33
27	Study of chemical modifiers for direct determination of silver in sea water by ETA-AAS with deuterium background correction. <i>Talanta</i> , 1996, 43, 35-44.	5.5	32
28	Arsenic extraction in marine biological materials using pressurised liquid extraction. <i>Talanta</i> , 2007, 71, 515-520.	5.5	32
29	Determination of aluminium and manganese in human scalp hair by electrothermal atomic absorption spectrometry using slurry sampling. <i>Talanta</i> , 1998, 45, 1147-1154.	5.5	31
30	Combined assisted extraction techniques as green sample pre-treatments in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 118, 1-18.	11.4	31
31	Pressurized liquid extraction followed by high performance liquid chromatography coupled to hydride generation atomic fluorescence spectrometry for arsenic and selenium speciation in atmospheric particulate matter. <i>Journal of Chromatography A</i> , 2008, 1215, 15-20.	3.7	30
32	Direct mercury determination in aqueous slurries of environmental and biological samples by cold vapour generation-electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2002, 460, 111-122.	5.4	29
33	Tin determination in marine sediment, soil, coal fly ash and coal slurried samples by hydride generation-electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2002, 461, 261-271.	5.4	29
34	Matrix solid-phase dispersion of organic compounds and its feasibility for extracting inorganic and organometallic compounds. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 110-116.	11.4	28
35	Arsenic species determination in human scalp hair by pressurized hot water extraction and high performance liquid chromatography-inductively coupled plasma-mass spectrometry. <i>Talanta</i> , 2013, 105, 422-428.	5.5	28
36	Comparative study on the use of Ir, W and Zr-coated graphite tubes for the determination of chromium in slurries of human scalp hair by electrothermal atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 712-716.	1.5	27

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37	Direct Determination of Arsenic in Sea-water by Continuous-flow Hydride Generation Atomic Fluorescence Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1377-1380.	3.0	25
38	Use of Flow Injection Cold Vapour Generation and Preconcentration on Coated Graphite Tubes for the Determination of Mercury in Polluted Seawaters by Electrothermal Atomic Absorption Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 317-321.	3.0	24
39	Selenium species determination in foods harvested in Seleniferous soils by HPLC-ICP-MS after enzymatic hydrolysis assisted by pressurization and microwave energy. <i>Food Research International</i> , 2018, 111, 621-630.	6.2	24
40	Pressurized liquid extraction as a novel sample pre-treatment for trace element leaching from biological material. <i>Analytica Chimica Acta</i> , 2006, 572, 172-179.	5.4	23
41	Comparative study of atmospheric water-soluble organic aerosols composition in contrasting suburban environments in the Iberian Peninsula Coast. <i>Science of the Total Environment</i> , 2019, 648, 430-441.	8.0	23
42	The occurrence and distribution of polycyclic aromatic hydrocarbons, bisphenol A and organophosphate flame retardants in indoor dust and soils from public open spaces: Implications for human exposure. <i>Environmental Pollution</i> , 2020, 266, 115372.	7.5	23
43	Use of aqueous slurry sampling for the determination of lead in human hair samples by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 1996, 43, 1099-1107.	5.5	21
44	Bismuth determination in environmental samples by hydride generation?electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2003, 61, 633-642.	5.5	21
45	Inhalation bioaccessibility estimation of polycyclic aromatic hydrocarbons from atmospheric particulate matter (PM10): Influence of PM10 composition and health risk assessment. <i>Chemosphere</i> , 2021, 263, 127847.	8.2	21
46	Determination of As, Bi and Se in acidified slurries of marine sediment, soil and coal samples by hydride generation electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 721-726.	3.0	20
47	Direct As, Bi, Ge, Hg and Se(IV) cold vapor/hydride generation from coal fly ash slurry samples and determination by electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 883-895.	2.9	20
48	Hydride generation atomic fluorescence spectrometric determination of As, Bi, Sb, Se(IV) and Te(IV) in aqua regia extracts from atmospheric particulate matter using multivariate optimization. <i>Analytica Chimica Acta</i> , 2004, 526, 185-192.	5.4	20
49	Determination of traces of silver in human scalp hair slurries by electrothermal atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 1998, 129, 71-76.	5.0	18
50	ICP-MS for the determination of selenium bioavailability from seafood and effect of major food constituents. <i>Microchemical Journal</i> , 2013, 108, 174-179.	4.5	18
51	Determination of lead in illicit drugs by electrothermal atomic absorption spectrometry using palladium as chemical modifier. <i>Analytica Chimica Acta</i> , 1995, 310, 355-367.	5.4	17
52	As, Bi, Sb and Sn determination in atmospheric particulate matter by direct solid sampling-hydride generation-electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2007, 71, 1834-1841.	5.5	17
53	Development of dried serum spot sampling techniques for the assessment of trace elements in serum samples by LA-ICP-MS. <i>Talanta</i> , 2018, 186, 169-175.	5.5	17
54	Effectiveness of palladium as a chemical modifier for direct silver and manganese determination in cocaine and heroin by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 1996, 43, 1783-1792.	5.5	16

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55	Comparison of different chemical modifiers for the direct determination of arsenic in sea water by electrothermal atomic absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 1996, 355, 174-179.	3.7	16
56	Direct trace determination of lead in estuarine water using in situ preconcentration of lead hydride on Ir, Zr and W-coated graphite tubes. <i>Analytica Chimica Acta</i> , 1998, 368, 281-289.	5.4	16
57	A Study of Illicit Cocaine Seizure Classification by Pattern Recognition Techniques Applied to Metal Data. <i>Journal of Forensic Sciences</i> , 1999, 44, 270-275.	1.6	16
58	Determination of nickel in human scalp hair by slurry sampling electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1997, 349, 319-325.	5.4	15
59	Laser ablation inductively coupled plasma mass spectrometry for multi-elemental determination in dried blood spots. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 1500-1507.	3.0	15
60	Comparative study of magnesium nitrate, palladium nitrate and reduced palladium for the direct determination of mercury in sea water by electrothermal atomization atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 1996, 124, 111-122.	5.0	14
61	Comparative study of different permanently-treated graphite tubes for the determination of As, Sb, and Se in natural waters by hydride generation-electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2001, 431, 157-165.	5.4	14
62	Direct determination of nickel in heroin and cocaine by electrothermal atomic absorption spectrometry using deuterium arc background correction combined with chemical modification. <i>Journal of Analytical Atomic Spectrometry</i> , 1995, 10, 1011-1017.	3.0	13
63	Acid predigestion as a slurry pretreatment for the determination of Ca, Cu, K, Mg, Na and Zn in human scalp hair by flame atomic absorption/emission spectrometry with a high-performance nebulizer. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 707-711.	1.5	13
64	Feasibility of Pressurization To Speed Up Enzymatic Hydrolysis of Biological Materials for Multielement Determinations. <i>Analytical Chemistry</i> , 2007, 79, 1797-1805.	6.5	13
65	Multi-element determinations in foods from Amazon region by ICP-MS after enzymatic hydrolysis assisted by pressurisation and microwave energy. <i>Microchemical Journal</i> , 2018, 137, 402-409.	4.5	13
66	Determination of traces of chromium in cocaine and heroin by flameless atomic absorption spectrometry. <i>Talanta</i> , 1996, 43, 77-87.	5.5	12
67	Direct electrothermal atomic absorption spectrometry determination of nickel in sea water using multiple hot injection and Zeeman correction. <i>Talanta</i> , 1998, 45, 807-815.	5.5	12
68	As, Cd, Cr, Ni and Pb pressurized liquid extraction with acetic acid from marine sediment and soil samples. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2006, 61, 1304-1309.	2.9	12
69	Use of pressurized hot water extraction and high performance liquid chromatography-inductively coupled plasma-mass spectrometry for water soluble halides speciation in atmospheric particulate matter. <i>Talanta</i> , 2012, 101, 283-291.	5.5	11
70	The Influence of Oceanic Air Masses on Concentration of Major Ions and Trace Metals in PM _{2.5} Fraction at a Coastal European Suburban Site. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	11
71	Chromium determination in sea water by electrothermal atomic absorption spectrometry using Zeeman effect background correction and a multi-injection technique. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 360, 208-212.	1.5	10
72	Oral bioavailability estimation of toxic and essential trace elements in PM ₁₀ . <i>Atmospheric Environment</i> , 2019, 213, 104-115.	4.1	10

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73	Inhalation bioaccessibility of multi-class organic pollutants associated to atmospheric PM2.5: Correlation with PM2.5 properties and health risk assessment. <i>Environmental Pollution</i> , 2022, 307, 119577.	7.5	10
74	Direct determination of arsenic in sea water by electrothermal atomization atomic absorption spectrometry using D2 and Zeeman background correction. <i>Mikrochimica Acta</i> , 1998, 128, 215-221.	5.0	8
75	Use of chelating solvent-based pressurized liquid extraction combined with inductively coupled plasma-optical emission spectrometry for trace element determination in atmospheric particulate matter. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1089.	3.0	8
76	Pressurized liquid extraction-assisted mussel cytosol preparation for the determination of metals bound to metallothionein-like proteins. <i>Analytica Chimica Acta</i> , 2007, 603, 36-43.	5.4	8
77	Polycyclic aromatic hydrocarbons analysis in tea infusions and tea beverages using membrane assisted solvent extraction. <i>Microchemical Journal</i> , 2021, 167, 106278.	4.5	8
78	Development and validation of a multi-pollutant method for the analysis of polycyclic aromatic hydrocarbons, synthetic musk compounds and plasticizers in atmospheric particulate matter (PM2.5). <i>Talanta Open</i> , 2021, 4, 100057.	3.7	8
79	Application of rapid electrothermal atomic absorption spectrometric methods to the determination of Ag, Al, Cd and Mn in cocaine and heroin samples. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 358, 844-847.	1.5	7
80	Polycyclic aromatic hydrocarbons in atmospheric particulate matter (PM10) at a Southwestern Europe coastal city: status, sources and health risk assessment. <i>Air Quality, Atmosphere and Health</i> , 2021, 14, 1325-1339.	3.3	7
81	Indirect determination of iodide, as an Hgxylycomplex, by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 483-487.	3.0	6
82	Multivariate optimization of PTV-GC-MS method for simultaneous determination of organometallic compounds of mercury, lead and tin. <i>Analytical Methods</i> , 2016, 8, 7702-7710.	2.7	6
83	Evolution of Gaseous and Particulate Pollutants in the Air: What Changed after Five Lockdown Weeks at a Southwest Atlantic European Region (Northwest of Spain) Due to the SARS-CoV-2 Pandemic?. <i>Atmosphere</i> , 2021, 12, 562.	2.3	6
84	Direct determination of Ge in hot spring waters and coal fly ash samples by hydride generation-ETAAS. <i>Talanta</i> , 2004, 64, 302-307.	5.5	5
85	Major, minor and trace elements composition of Amazonian foodstuffs and its contribution to dietary intake. <i>Journal of Food Measurement and Characterization</i> , 2020, 14, 1314-1324.	3.2	5
86	Oral bioavailability reveals an overestimation of the toxicity of polycyclic aromatic hydrocarbons in atmospheric particulate matter. <i>Environmental Chemistry Letters</i> , 2022, 20, 49-57.	16.2	5
87	Recent Advances in the Combination of Assisted Extraction Techniques. <i>Comprehensive Analytical Chemistry</i> , 2017, 76, 519-573.	1.3	4
88	Levels and Sources of Atmospheric Particle-Bound Mercury in Atmospheric Particulate Matter (PM10) at Several Sites of an Atlantic Coastal European Region. <i>Atmosphere</i> , 2020, 11, 33.	2.3	4
89	Trace elements in dried blood spots as potential discriminating features for metabolic disorder diagnosis in newborns. <i>Metallomics</i> , 2021, 13, .	2.4	3
90	Trace Metal Determination of Edible Seaweeds by Pressurized Hot Water Extraction and Determination by Inductively Coupled Plasma Mass Spectrometry. <i>Atomic Spectroscopy</i> , 2012, 33, 179-185.	1.2	3

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91	Inorganic ions and trace metals bulk deposition at an Atlantic Coastal European region. Journal of Atmospheric Chemistry, 2017, 74, 1-21.	3.2	2
92	Determination of Arsenic Species in Urine Samples of Subjects Not Exposed to Dietary Arsenic by High Performance Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry. Atomic Spectroscopy, 2015, 36, 237-246.	1.2	2
93	Determination of Arsenic Species in Edible Seaweeds by HPLC-ICP-MS After Pressurized Hot Water Extraction. Atomic Spectroscopy, 2016, 37, 218-228.	1.2	2
94	Sample Preparation in Foodomics. Combination of Assisted-Extraction Techniques to the Comprehensive Foodomics. , 2021, , 581-608.		1
95	CHAPTER 11. Bioavailability of Selenium and Selenium Compounds in Foodstuff by In Vitro Testing. Food and Nutritional Components in Focus, 2015, , 197-220.	0.1	0
96	CHAPTER 10. Bioavailability of Selenium and Selenium Compounds in Foodstuff by In Vivo Testing. Food and Nutritional Components in Focus, 2015, , 173-196.	0.1	0