

JosÃ© L GÃ³mez-Ariza

List of Publications by Year in descending order

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220
papers

7,458
citations

47006

47
h-index

95266

68
g-index

222
all docs

222
docs citations

222
times ranked

7606
citing authors

#	ARTICLE	IF	CITATIONS
1	Heavy metal partitioning in river sediments severely polluted by acid mine drainage in the Iberian Pyrite Belt. <i>Applied Geochemistry</i> , 2003, 18, 409-421.	3.0	191
2	A comparison between ICP-MS and AFS detection for arsenic speciation in environmental samples. <i>Talanta</i> , 2000, 51, 257-268.	5.5	185
3	Spatial variations of heavy metals contamination in sediments from Odiel river (Southwest Spain). <i>Environment International</i> , 2003, 29, 69-77.	10.0	164
4	Metabolite profiling for the identification of altered metabolic pathways in Alzheimer's disease. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 107, 75-81.	2.8	158
5	Combination of metabolomic and phospholipid-profiling approaches for the study of Alzheimer's disease. <i>Journal of Proteomics</i> , 2014, 104, 37-47.	2.4	123
6	Metal readsorption and redistribution during the analytical fractionation of trace elements in oxic estuarine sediments. <i>Analytica Chimica Acta</i> , 1999, 399, 295-307.	5.4	116
7	Metabolomic profiling of serum in the progression of Alzheimer's disease by capillary electrophoresis-mass spectrometry. <i>Electrophoresis</i> , 2014, 35, 3321-3330.	2.4	105
8	Determination of polychlorinated biphenyls in biota samples using simultaneous pressurized liquid extraction and purification. <i>Journal of Chromatography A</i> , 2002, 946, 209-219.	3.7	103
9	Environmental proteomics and metallomics. <i>Proteomics</i> , 2006, 6, S51-S62.	2.2	103
10	Comparative study of atomic fluorescence spectroscopy and inductively coupled plasma mass spectrometry for mercury and arsenic multispeciation. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 485-492.	3.7	100
11	Characterization of metal profiles in serum during the progression of Alzheimer's disease. <i>Metallomics</i> , 2014, 6, 292-300.	2.4	97
12	Arsenic speciation of atmospheric particulate matter (PM10) in an industrialised urban site in southwestern Spain. <i>Chemosphere</i> , 2007, 66, 1485-1493.	8.2	91
13	Metabolomic study of lipids in serum for biomarker discovery in Alzheimer's disease using direct infusion mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 98, 321-326.	2.8	91
14	Metal sequential extraction procedure optimized for heavily polluted and iron oxide rich sediments. <i>Analytica Chimica Acta</i> , 2000, 414, 151-164.	5.4	80
15	Comparison of biota sample pretreatments for arsenic speciation with coupled HPLC-HG-ICP-MS. <i>Analyst</i> , 2000, 125, 401-407.	3.5	80
16	Region-specific metabolic alterations in the brain of the APP/PS1 transgenic mice of Alzheimer's disease. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2014, 1842, 2395-2402.	3.8	80
17	Homeostasis of metals in the progression of Alzheimer's disease. <i>BioMetals</i> , 2014, 27, 539-549.	4.1	80
18	Use of mass spectrometry techniques for the characterization of metal bound to proteins (metallomics) in biological systems. <i>Analytica Chimica Acta</i> , 2004, 524, 15-22.	5.4	79

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19	Arsenic speciation in river and estuarine waters from southwest Spain. <i>Science of the Total Environment</i> , 2005, 345, 207-217.	8.0	79
20	Metabolomic screening of regional brain alterations in the APP/PS1 transgenic model of Alzheimer's disease by direct infusion mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 102, 425-435.	2.8	79
21	Using direct infusion mass spectrometry for serum metabolomics in Alzheimer's disease. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 7137-7148.	3.7	78
22	Stability of chemical species in environmental matrices. <i>TrAC - Trends in Analytical Chemistry</i> , 2000, 19, 200-209.	11.4	77
23	The association of urine metals and metal mixtures with cardiovascular incidence in an adult population from Spain: the Hortega Follow-Up Study. <i>International Journal of Epidemiology</i> , 2019, 48, 1839-1849.	1.9	75
24	Ecological analysis in a polluted area of Algeciras Bay (southern Spain): External versus internal outfalls and environmental implications. <i>Marine Pollution Bulletin</i> , 1997, 34, 780-793.	5.0	74
25	Evaluation of atomic fluorescence spectrometry as a sensitive detection technique for arsenic speciation. <i>Applied Organometallic Chemistry</i> , 1998, 12, 439-447.	3.5	71
26	Sample treatment in chromatography-based speciation of organometallic pollutants. <i>Journal of Chromatography A</i> , 2001, 938, 211-224.	3.7	70
27	Application of a novel metabolomic approach based on atmospheric pressure photoionization mass spectrometry using flow injection analysis for the study of Alzheimer's disease. <i>Talanta</i> , 2015, 131, 480-489.	5.5	70
28	Urinary metals and metal mixtures and oxidative stress biomarkers in an adult population from Spain: The Hortega Study. <i>Environment International</i> , 2019, 123, 171-180.	10.0	68
29	Comparison of the feasibility of three extraction procedures for trace metal partitioning in sediments from south-west Spain. <i>Science of the Total Environment</i> , 2000, 246, 271-283.	8.0	67
30	Arsenic speciation study of PM2.5 in an urban area near a copper smelter. <i>Atmospheric Environment</i> , 2008, 42, 6487-6495.	4.1	66
31	Simultaneous analysis of mercury and selenium species including chiral forms of selenomethionine in human urine and serum by HPLC column-switching coupled to ICP-MS. <i>Analyst</i> , 2010, 135, 2700.	3.5	66
32	Comparative study of electrospray and photospray ionization sources coupled to quadrupole time-of-flight mass spectrometer for olive oil authentication. <i>Talanta</i> , 2006, 70, 859-869.	5.5	64
33	Toenails as biomarker of exposure to essential trace metals: A review. <i>Environmental Research</i> , 2019, 179, 108787.	7.5	62
34	Evolution of biological effects of AznalcÃ³llar mining spill in the Algerian mouse (<i>Mus spretus</i>) using biochemical biomarkers. <i>Toxicology</i> , 2004, 197, 122-137.	4.2	60
35	Characterization and analysis of amino acids in orange juice by HPLC-MS/MS for authenticity assessment. <i>Analytica Chimica Acta</i> , 2005, 540, 221-230.	5.4	60
36	Elucidation of the defence mechanism in microalgae <i>Chlorella sorokiniana</i> under mercury exposure. Identification of Hg-phytochelatin. <i>Chemico-Biological Interactions</i> , 2015, 238, 82-90.	4.0	60

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37	Metabolic profiling of potential lung cancer biomarkers using bronchoalveolar lavage fluid and the integrated direct infusion/ gas chromatography mass spectrometry platform. <i>Journal of Proteomics</i> , 2016, 145, 197-206.	2.4	60
38	Biological responses related to agonistic, antagonistic and synergistic interactions of chemical species. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2237-2253.	3.7	59
39	Proteomics in free-living <i>Mus spretus</i> to monitor terrestrial ecosystems. <i>Proteomics</i> , 2007, 7, 4376-4387.	2.2	54
40	Determination of an arsenosugar in oyster extracts by liquid chromatography-electrospray mass spectrometry and liquid chromatography-ultraviolet photo-oxidation-hydride generation atomic fluorescence spectrometry. <i>Analyst</i> , 2002, 127, 60-65.	3.5	52
41	Extraction procedures for chemical speciation of arsenic in atmospheric total suspended particles. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 335-340.	3.7	52
42	Utility of proteomics to assess pollutant response of clams from the Doñana bank of Guadalquivir Estuary (SW Spain). <i>Proteomics</i> , 2006, 6, S245-S255.	2.2	52
43	Metabolomic study in plasma, liver and kidney of mice exposed to inorganic arsenic based on mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1455-1469.	3.7	52
44	Arsenic exposure, diabetes-related genes and diabetes prevalence in a general population from Spain. <i>Environmental Pollution</i> , 2018, 235, 948-955.	7.5	52
45	Application of metabolomics based on direct mass spectrometry analysis for the elucidation of altered metabolic pathways in serum from the APP/PS1 transgenic model of Alzheimer's disease. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2015, 107, 378-385.	2.8	49
46	Selectivity assessment of a sequential extraction procedure for metal mobility characterization using model phases. <i>Talanta</i> , 2000, 52, 545-554.	5.5	48
47	Doñana National Park survey using crayfish (<i>Procambarus clarkii</i>) as bioindicator: Esterase inhibition and pollutant levels. <i>Toxicology Letters</i> , 2007, 168, 260-268.	0.8	48
48	Use of multiple headspace solid-phase microextraction and pervaporation for the determination of off-flavours in wine. <i>Journal of Chromatography A</i> , 2006, 1112, 133-140.	3.7	47
49	Simultaneous determination of mercury and arsenic species in natural freshwater by liquid chromatography with on-line UV irradiation, generation of hydrides and cold vapor and tandem atomic fluorescence detection. <i>Journal of Chromatography A</i> , 2004, 1056, 139-144.	3.7	46
50	Speciation analysis of selenium compounds in yeasts using pressurised liquid extraction and liquid chromatography-microwave-assisted digestion-hydride generation-atomic fluorescence spectrometry. <i>Analytica Chimica Acta</i> , 2004, 524, 305-314.	5.4	46
51	New metallothionein assay in <i>Scrobicularia plana</i> : Heating effect and correlation with other biomarkers. <i>Environmental Pollution</i> , 2008, 156, 1340-1347.	7.5	46
52	Simultaneous speciation and preconcentration of ultra trace concentrations of mercury and selenium species in environmental and biological samples by hollow fiber liquid phase microextraction prior to high performance liquid chromatography coupled to inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2013, 1300, 43-50.	3.7	45
53	The present environmental scenario of El Melah Lagoon (NE Tunisia) and its evolution to a future sabkha. <i>Journal of African Earth Sciences</i> , 2006, 44, 289-302.	2.0	44
54	Development of a metabolomic approach based on urine samples and direct infusion mass spectrometry. <i>Analytical Biochemistry</i> , 2014, 465, 20-27.	2.4	44

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55	Urine cadmium levels and albuminuria in a general population from Spain: A gene-environment interaction analysis. <i>Environment International</i> , 2017, 106, 27-36.	10.0	44
56	Absolute Transcript Expression Signatures of Cyp and Gst Genes in Mus spretus to Detect Environmental Contamination. <i>Environmental Science & Technology</i> , 2006, 40, 3646-3652.	10.0	43
57	Liquid chromatography-inductively coupled plasma-based metallomic approaches to probe health-relevant interactions between xenobiotics and mammalian organisms. <i>Metallomics</i> , 2011, 3, 566.	2.4	43
58	Deciphering metabolic abnormalities associated with Alzheimer's disease in the APP/PS1 mouse model using integrated metabolomic approaches. <i>Biochimie</i> , 2015, 110, 119-128.	2.6	43
59	Biological interactions between mercury and selenium in distribution and detoxification processes in mice under controlled exposure. Effects on selenoprotein. <i>Chemico-Biological Interactions</i> , 2015, 229, 82-90.	4.0	43
60	Metabolomic-Driven Elucidation of Serum Disturbances Associated with Alzheimer's Disease and Mild Cognitive Impairment. <i>Current Alzheimer Research</i> , 2016, 13, 641-653.	1.4	43
61	Environmental monitoring of Domingo Rubio stream (Huelva Estuary, SW Spain) by combining conventional biomarkers and proteomic analysis in <i>Carcinus maenas</i> . <i>Environmental Pollution</i> , 2010, 158, 401-408.	7.5	42
62	Environmental metabolomics: Biological markers for metal toxicity. <i>Electrophoresis</i> , 2015, 36, 2348-2365.	2.4	42
63	Selective extraction of iron oxide associated arsenic species from sediments for speciation with coupled HPLC-HG-AAS. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 1375-1379.	3.0	41
64	Biological response of free-living mouse <i>Mus spretus</i> from Doñana National Park under environmental stress based on assessment of metal-binding biomolecules by SEC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1967-1981.	3.7	41
65	Use of solid phase extraction for speciation of selenium compounds in aqueous environmental samples. <i>Analyst</i> , 1999, 124, 75-78.	3.5	40
66	Column-switching system for selenium speciation by coupling reversed-phase and ion-exchange high-performance liquid chromatography with microwave-assisted digestion and hydride generation atomic fluorescence spectrometry. <i>Journal of Chromatography A</i> , 2000, 889, 33-39.	3.7	40
67	Anthocyanins profile as fingerprint of wines using atmospheric pressure photoionisation coupled to quadrupole time-of-flight mass spectrometry. <i>Analytica Chimica Acta</i> , 2006, 570, 101-108.	5.4	40
68	Organotin contamination in the Atlantic Ocean off the Iberian Peninsula in relation to shipping. <i>Chemosphere</i> , 2006, 64, 1100-1108.	8.2	39
69	Analysis of the biological response of mouse liver (<i>Mus musculus</i>) exposed to As ₂ O ₃ based on integrated -omics approaches. <i>Metallomics</i> , 2013, 5, 1644.	2.4	39
70	A combination of metallomics and metabolomics studies to evaluate the effects of metal interactions in mammals. Application to <i>Mus musculus</i> mice under arsenic/cadmium exposure. <i>Journal of Proteomics</i> , 2014, 104, 66-79.	2.4	39
71	Toxic metals in toenails as biomarkers of exposure: A review. <i>Environmental Research</i> , 2021, 197, 111028.	7.5	39
72	Hydride generation atomic fluorescence spectrometry (HG-AFS) as a sensitive detector for Sb(III) and Sb(V) speciation in water. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 423-428.	3.0	38

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73	Metabolomic investigation of systemic manifestations associated with Alzheimer's disease in the APP/PS1 transgenic mouse model. <i>Molecular BioSystems</i> , 2015, 11, 2429-2440.	2.9	38
74	Multielemental fractionation in pine nuts (<i>Pinus pinea</i>) from different geographic origins by size-exclusion chromatography with UV and inductively coupled plasma mass spectrometry detection. <i>Journal of Chromatography A</i> , 2006, 1121, 191-199.	3.7	37
75	Spatial distribution of butyltin and phenyltin compounds on the Huelva coast (Southwest Spain). <i>Chemosphere</i> , 1998, 37, 937-950.	8.2	36
76	Oxidative stress biomarkers in bivalves transplanted to the Guadalquivir estuary after AznalcÃ³llar spill. <i>Environmental Toxicology and Chemistry</i> , 2003, 22, 92-100.	4.3	36
77	Optimisation of a pressurised liquid extraction method for haloanisoles in cork stoppers. <i>Analytica Chimica Acta</i> , 2005, 540, 17-24.	5.4	36
78	Uptake and elimination of tributyltin in clams, <i>Venerupis decussata</i> . <i>Marine Environmental Research</i> , 1999, 47, 399-413.	2.5	35
79	Analysis of anisoles in wines using pervaporation coupled to gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1049, 147-153.	3.7	35
80	Imposex and butyltin contamination off the Oporto Coast (NW Portugal): a possible effect of the discharge of dredged material. <i>Environment International</i> , 2004, 30, 793-798.	10.0	35
81	Speciation of antimony in airborne particulate matter using ultrasound probe fast extraction and analysis by HPLC-HG-AFS. <i>Analytica Chimica Acta</i> , 2009, 649, 191-195.	5.4	35
82	Metal interactions in mice under environmental stress. <i>BioMetals</i> , 2013, 26, 651-666.	4.1	35
83	Development of a new column switching method for simultaneous speciation of selenometabolites and selenoproteins in human serum. <i>Journal of Chromatography A</i> , 2013, 1318, 171-179.	3.7	35
84	Sex-dependent calcium hyperactivity due to lysosomal-related dysfunction in astrocytes from APOE4 versus APOE3 gene targeted replacement mice. <i>Molecular Neurodegeneration</i> , 2020, 15, 35.	10.8	35
85	Arsenic, cadmium, and selenium exposures and bone mineral density-related endpoints: The HORTEGA study. <i>Free Radical Biology and Medicine</i> , 2021, 162, 392-400.	2.9	35
86	Diel cycles of arsenic speciation due to photooxidation in acid mine drainage from the Iberian Pyrite Belt (Sw Spain). <i>Chemosphere</i> , 2007, 66, 677-683.	8.2	34
87	New preservation method for inorganic arsenic speciation in acid mine drainage samples. <i>Talanta</i> , 2006, 69, 1182-1189.	5.5	33
88	Effect of Selenate on Viability and Selenomethionine Accumulation of <i>Chlorella sorokiniana</i> Grown in Batch Culture. <i>Scientific World Journal</i> , The, 2014, 2014, 1-13.	2.1	32
89	Arsenic metabolites in human serum and urine after seafood (<i>Anemonia sulcata</i>) consumption and bioaccessibility assessment using liquid chromatography coupled to inorganic and organic mass spectrometry. <i>Microchemical Journal</i> , 2014, 112, 56-64.	4.5	32
90	Metabolic signatures associated with environmental pollution by metals in DoÃ±ana National Park using <i>P. clarkii</i> as bioindicator. <i>Environmental Science and Pollution Research</i> , 2014, 21, 13315-13323.	5.3	32

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91	Speciation of volatile forms of selenium and inorganic selenium in sediments by gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 1998, 823, 259-277.	3.7	31
92	Use of flow injection atmospheric pressure photoionization quadrupole time-of-flight mass spectrometry for fast olive oil fingerprinting. <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 1181-1186.	1.5	31
93	Development of a rapid extraction procedure for speciation of arsenic in chicken meat. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 1172-1177.	3.7	31
94	Metabolomic alterations and oxidative stress are associated with environmental pollution in <i>Procambarus clarkii</i> . <i>Aquatic Toxicology</i> , 2018, 205, 76-88.	4.0	31
95	Metabolomic study of serum, urine and bronchoalveolar lavage fluid based on gas chromatography mass spectrometry to delve into the pathology of lung cancer. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 163, 122-129.	2.8	31
96	Stability and storage problems in organotin speciation in environmental samples. <i>Journal of Environmental Monitoring</i> , 1999, 1, 197-202.	2.1	30
97	Comparative study of the instrumental couplings of high performance liquid chromatography with microwave-assisted digestion hydride generation atomic fluorescence spectrometry and inductively coupled plasma mass spectrometry for chiral speciation of selenomethionine in breast and formula milk. <i>Analytica Chimica Acta</i> , 2004, 520, 229-235.	5.4	30
98	Childhood chromium exposure and neuropsychological development in children living in two polluted areas in southern Spain. <i>Environmental Pollution</i> , 2019, 252, 1550-1560.	7.5	30
99	Simultaneous separation, clean-up and analysis of musty odorous compounds in wines by on-line coupling of a pervaporation unit to gas chromatography-mass spectrometry. <i>Analytica Chimica Acta</i> , 2004, 516, 165-170.	5.4	29
100	High throughput multiorgan metabolomics in the APP/PS1 mouse model of Alzheimer's disease. <i>Electrophoresis</i> , 2015, 36, 2237-2249.	2.4	28
101	Metal dyshomeostasis based biomarkers of lung cancer using human biofluids. <i>Metallomics</i> , 2018, 10, 1444-1451.	2.4	28
102	Metallomics integrated with proteomics in deciphering metal-related environmental issues. <i>Biochimie</i> , 2009, 91, 1311-1317.	2.6	27
103	Metabolomics reveals significant impairments in the immune system of the APP/PS1 transgenic mice of Alzheimer's disease. <i>Electrophoresis</i> , 2015, 36, 577-587.	2.4	27
104	Simultaneous speciation of selenoproteins and selenometabolites in plasma and serum by dual size exclusion-affinity chromatography with online isotope dilution inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2719-2725.	3.7	26
105	Omics technologies and their applications to evaluate metal toxicity in mice <i>M. spretus</i> as a bioindicator. <i>Journal of Proteomics</i> , 2014, 104, 4-23.	2.4	26
106	Simultaneous speciation of butyltin and phenyltin compounds in the waters of South-west Spain. <i>Analyst</i> , 1992, 117, 641.	3.5	25
107	Determination of flavour and off-flavour compounds in orange juice by on-line coupling of a pervaporation unit to gas chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2004, 1047, 313-317.	3.7	25
108	Integrated application of transcriptomics, proteomics, and metallomics in environmental studies. <i>Pure and Applied Chemistry</i> , 2008, 80, 2609-2626.	1.9	25

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109	Size characterization of metal species in liver and brain from free-living (<i>Mus spretus</i>) and laboratory (<i>Mus Musculus</i>) mice by SEC-ICP-MS: Application to environmental contamination assessment. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 141-149.	3.0	25
110	Application of metallomic and metabolomic approaches in exposure experiments on laboratory mice for environmental metal toxicity assessment. <i>Metallomics</i> , 2014, 6, 237.	2.4	25
111	Photoassisted Degradation (in the UV) of Phenyltin(IV) Chlorides in the Presence of Titanium Dioxide. <i>Langmuir</i> , 1998, 14, 388-395.	3.5	24
112	Analytical approach for routine methylmercury determination in seafood using gas chromatography-atomic fluorescence spectrometry. <i>Analytica Chimica Acta</i> , 2004, 511, 165-173.	5.4	24
113	Trace metal concentrations in sediments from the southwest of the Iberian Peninsula. <i>Scientia Marina</i> , 2010, 74, 99-106.	0.6	24
114	Shotgun metabolomic approach based on mass spectrometry for hepatic mitochondria of mice under arsenic exposure. <i>BioMetals</i> , 2015, 28, 341-351.	4.1	24
115	Comparison of three derivatization reagents for the analysis of Se(IV) based on piaseelenol formation and gas chromatography-mass spectrometry. <i>Talanta</i> , 1999, 49, 285-292.	5.5	23
116	Optimization of an HPLC-HG-AFS method for screening Sb(v), Sb(iii), and Me ₃ SbBr ₂ in water samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1400-1404.	3.0	23
117	Pretreatment procedure for selenium speciation in shellfish using high-performance liquid chromatography-microwave-assisted digestion-hydride generation-atomic fluorescence spectrometry. <i>Applied Organometallic Chemistry</i> , 2002, 16, 265-270.	3.5	23
118	Solvent effects on the dissociation of aliphatic carboxylic acids in water-N,N -dimethylformamide mixtures. <i>Analytica Chimica Acta</i> , 1990, 228, 301-306.	5.4	22
119	Optimisation of a two-dimensional on-line coupling for the determination of anisoles in wine using ECD and ICP-MS after SPME-GC separation. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 883.	3.0	22
120	Preservation procedures for arsenic speciation in a stream affected by acid mine drainage in southwestern Spain. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 1594-1599.	3.7	22
121	Heavy metal mobility assessment in sediments from the Odiel River (Iberian Pyritic Belt) using sequential extraction. <i>Environmental Earth Sciences</i> , 2010, 61, 1493-1503.	2.7	22
122	Application of hollow fiber liquid phase microextraction for simultaneous determination of regulated and emerging iodinated trihalomethanes in drinking water. <i>Journal of Chromatography A</i> , 2015, 1402, 8-16.	3.7	22
123	Inorganic and organic selenium compound speciation with coupled HPLC-MW-HG-AFS. <i>Applied Organometallic Chemistry</i> , 1999, 13, 783-787.	3.5	21
124	Guidelines for routine mercury speciation analysis in seafood by gas chromatography coupled to a home-modified AFS detector. Application to the Andalusian coast (south Spain). <i>Chemosphere</i> , 2005, 61, 1401-1409.	8.2	21
125	Iberian ham typification by direct infusion electrospray and photospray ionization mass spectrometry fingerprinting. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 835-844.	1.5	21
126	Metabolomic approach to Alzheimer's disease diagnosis based on mass spectrometry. <i>Chemical Papers</i> , 2012, 66, .	2.2	21

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127	Title is missing!. Water, Air, and Soil Pollution, 2001, 126, 253-270.	2.4	20
128	Speciation of arsenic in marine food (<i>Anemonia sulcata</i>) by liquid chromatography coupled to inductively coupled plasma mass spectrometry and organic mass spectrometry. Journal of Chromatography A, 2013, 1282, 133-141.	3.7	20
129	Selenium, selenoproteins and selenometabolites in mothers and babies at the time of birth. British Journal of Nutrition, 2017, 117, 1304-1311.	2.3	20
130	Metabolic impairments, metal traffic, and dyshomeostasis caused by the antagonistic interaction of cadmium and selenium using organic and inorganic mass spectrometry. Environmental Science and Pollution Research, 2020, 27, 1762-1775.	5.3	20
131	Determination of traces of gallium in biological materials by fluorometry. Analytical Chemistry, 1985, 57, 2309-2311.	6.5	19
132	Temporal fluctuations of tributyltin in the bivalve <i>Venerupis decussata</i> at five stations in southwest Spain. Environmental Pollution, 2000, 108, 279-290.	7.5	19
133	Metal-binding molecules in the organs of <i>Mus musculus</i> by size-exclusion chromatography coupled with UV spectroscopy and ICP-MS. Analytical and Bioanalytical Chemistry, 2008, 390, 17-28.	3.7	19
134	Iodine speciation in iodine-enriched microalgae <i>Chlorella vulgaris</i> . Pure and Applied Chemistry, 2010, 82, 473-481.	1.9	19
135	Use of elemental and molecular-mass spectrometry to assess the toxicological effects of inorganic mercury in the mouse <i>Mus musculus</i> . Analytical and Bioanalytical Chemistry, 2014, 406, 5853-5865.	3.7	19
136	Acid/extraction treatment of bivalves for organotin speciation. Fresenius' Journal of Analytical Chemistry, 1997, 357, 1007-1009.	1.5	18
137	The environmental quality of DoÃ±ana surrounding areas affects the immune transcriptional profile of inhabitant crayfish <i>Procambarus clarkii</i> . Fish and Shellfish Immunology, 2014, 40, 136-145.	3.6	18
138	The Metallome of Lung Cancer and its Potential Use as Biomarker. International Journal of Molecular Sciences, 2019, 20, 778.	4.1	18
139	Dynamic headspace coupled to preevaporation for the analysis of anisoles in wine by gas chromatographyâ€“ion-trap tandem mass spectrometry. Journal of Chromatography A, 2004, 1056, 243-247.	3.7	17
140	Metallomic study of selenium biomolecules metabolized by the microalgae <i>Chlorella sorkiniana</i> in the biotechnological production of functional foods enriched in selenium. Pure and Applied Chemistry, 2012, 84, 269-280.	1.9	17
141	Continuous production of selenomethionine-enriched <i>Chlorella sorkiniana</i> biomass in a photobioreactor. Process Biochemistry, 2013, 48, 1235-1241.	3.7	17
142	Evolution of metallotionein isoforms complexes in hepatic cells of <i>Mus musculus</i> along cadmium exposure. BioMetals, 2013, 26, 639-650.	4.1	17
143	Use of Metallomics and Metabolomics to Assess Metal Pollution in DoÃ±ana National Park (SW Spain). Environmental Science & Technology, 2014, 48, 7747-7755.	10.0	17
144	Metabolomic research on the role of interleukin-4 in Alzheimerâ€™s disease. Metabolomics, 2015, 11, 1175-1183.	3.0	17

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