

Antonio Moreda-Pieiro

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176
papers

3,983
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35
h-index

50
g-index

179
ext. papers

4,341
ext. citations

5.6
avg, IF

5.56
L-index

#	Paper	IF	Citations
176	The classification of tea according to region of origin using pattern recognition techniques and trace metal data. <i>Journal of Food Composition and Analysis</i> , 2003 , 16, 195-211	4.1	168
175	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	14.6	127
174	Evaluation of commercial C18 cartridges for trace elements solid phase extraction from seawater followed by inductively coupled plasma-optical emission spectrometry determination. <i>Analytica Chimica Acta</i> , 2005 , 536, 213-218	6.6	126
173	Inductively coupled plasma-optical emission spectrometry/mass spectrometry for the determination of Cu, Ni, Pb and Zn in seawater after ionic imprinted polymer based solid phase extraction. <i>Talanta</i> , 2009 , 79, 723-9	6.2	108
172	A review on iodine speciation for environmental, biological and nutrition fields. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 2107	3.7	77
171	Synthesis and characterization of novel molecularly imprinted polymer - coated Mn-doped ZnS quantum dots for specific fluorescent recognition of cocaine. <i>Biosensors and Bioelectronics</i> , 2016 , 75, 213-21	11.8	70
170	Synthesis, characterization and evaluation of ionic-imprinted polymers for solid-phase extraction of nickel from seawater. <i>Analytica Chimica Acta</i> , 2008 , 630, 1-9	6.6	66
169	Bioavailability study using an in-vitro method of iodine and bromine in edible seaweed. <i>Food Chemistry</i> , 2011 , 124, 1747-1752	8.5	65
168	Microwave assisted extraction of iodine and bromine from edible seaweed for inductively coupled plasma-mass spectrometry determination. <i>Talanta</i> , 2009 , 79, 947-52	6.2	60
167	Ionic imprinted polymer for nickel recognition by using the bi-functionalized 5-vinyl-8-hydroxyquinoline as a monomer: Application as a new solid phase extraction support. <i>Microchemical Journal</i> , 2009 , 93, 225-231	4.8	59
166	Ionic imprinted polymer based solid phase extraction for cadmium and lead pre-concentration/determination in seafood. <i>Microchemical Journal</i> , 2014 , 114, 106-110	4.8	58
165	Simple and Sensitive Molecularly Imprinted Polymer - Mn-Doped ZnS Quantum Dots Based Fluorescence Probe for Cocaine and Metabolites Determination in Urine. <i>Analytical Chemistry</i> , 2016 , 88, 2734-41	7.8	53
164	Assessment of the bioavailability of toxic and non-toxic arsenic species in seafood samples. <i>Food Chemistry</i> , 2012 , 130, 552-560	8.5	51
163	Porous membrane-protected molecularly imprinted polymer micro-solid-phase extraction for analysis of urinary cocaine and its metabolites using liquid chromatography - Tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 898, 50-9	6.6	50
162	Development of magnetic molecularly imprinted polymers for solid phase extraction of cocaine and metabolites in urine before high performance liquid chromatography - tandem mass spectrometry. <i>Talanta</i> , 2016 , 147, 641-9	6.2	47
161	The multivariate optimisation of ultrasonic bath-induced acid leaching for the determination of trace elements in seafood products by atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2001 , 439, 211-227	6.6	47
160	Trace metals in marine foodstuff: Bioavailability estimation and effect of major food constituents. <i>Food Chemistry</i> , 2012 , 134, 339-345	8.5	45

159	Recent advances in combining microextraction techniques for sample pre-treatment. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 71, 265-274	14.6	44
158	Study of cooking on the bioavailability of As, Co, Cr, Cu, Fe, Ni, Se and Zn from edible seaweed. <i>Microchemical Journal</i> , 2013 , 108, 92-99	4.8	42
157	Matrix solid-phase dispersion as a sample pretreatment for the speciation of arsenic in seafood products. <i>Analytical Chemistry</i> , 2008 , 80, 9272-8	7.8	41
156	Bioavailability assessment of essential and toxic metals in edible nuts and seeds. <i>Food Chemistry</i> , 2016 , 205, 146-54	8.5	41
155	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	11.5	40
154	Evaluation of an in vitro method to estimate trace elements bioavailability in edible seaweeds. <i>Talanta</i> , 2010 , 82, 1668-73	6.2	40
153	Simultaneous pressurized enzymatic hydrolysis extraction and clean up for arsenic speciation in seafood samples before high performance liquid chromatography-inductively coupled plasma-mass spectrometry determination. <i>Analytica Chimica Acta</i> , 2010 , 679, 63-73	6.6	40
152	Ultrasound bath-assisted enzymatic hydrolysis procedures as sample pretreatment for the multielement determination in mussels by inductively coupled plasma atomic emission spectrometry. <i>Analytical Chemistry</i> , 2004 , 76, 3541-7	7.8	40
151	Use of an in vitro digestion method to evaluate the bioaccessibility of arsenic in edible seaweed by inductively coupled plasma-mass spectrometry. <i>Microchemical Journal</i> , 2011 , 98, 91-96	4.8	39
150	Evaluation of the effect of data pre-treatment procedures on classical pattern recognition and principal components analysis: a case study for the geographical classification of tea. <i>Journal of Environmental Monitoring</i> , 2001 , 3, 352-60		39
149	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	3.7	38
148	Mercury speciation in seawater by liquid chromatography-inductively coupled plasma-mass spectrometry following solid phase extraction pre-concentration by using an ionic imprinted polymer based on methyl-mercury-phenobarbital interaction. <i>Journal of Chromatography A</i> , 2015 , 1301, 10-17	4.5	37
147	Application of fast ultrasound water-bath assisted enzymatic hydrolysis--high performance liquid chromatography-inductively coupled plasma-mass spectrometry procedures for arsenic speciation in seafood materials. <i>Journal of Chromatography A</i> , 2011 , 1218, 6970-80	4.5	37
146	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> , 2000 , 422, 231-240	6.6	37
145	Determination of cocaine and its metabolites in plasma by porous membrane-protected molecularly imprinted polymer micro-solid-phase extraction and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2016 , 1451, 15-22	4.5	37
144	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	6.6	36
143	Development of anion-exchange/reversed-phase high performance liquid chromatography-inductively coupled plasma-mass spectrometry methods for the speciation of bio-available iodine and bromine from edible seaweed. <i>Journal of Chromatography A</i> , 2012 , 1236, 164-76	4.5	36
142	Experimental designs in the optimisation of ultrasonic bath-acid-leaching procedures for the determination of trace elements in human hair samples by atomic absorption spectrometry. <i>Forensic Science International</i> , 2000 , 107, 105-20	2.6	36

141	Direct determination of copper, lead and cadmium in aniseed spirits by electrothermal atomic absorption spectrometry. <i>Food Chemistry</i> , 2007 , 101, 1296-1304	8.5	35
140	Microwave-assisted alkaline digestion combined with microwave-assisted distillation for the determination of iodide and total iodine in edible seaweed by catalytic spectrophotometry. <i>Analytica Chimica Acta</i> , 2005 , 542, 287-295	6.6	35
139	Ultrasound-assisted enzymatic hydrolysis for iodinated amino acid extraction from edible seaweed before reversed-phase high performance liquid chromatography-inductively coupled plasma-mass spectrometry. <i>Journal of Chromatography A</i> , 2013 , 1309, 33-40	4.5	34
138	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, 755-761	3.7	34
137	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	3.7	34
136	Aflatoxins screening in non-dairy beverages by Mn-doped ZnS quantum dots - Molecularly imprinted polymer fluorescent probe. <i>Talanta</i> , 2019 , 199, 65-71	6.2	34
135	Pressurized liquid extraction of organometals and its feasibility for total metal extraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 511-519	14.6	33
134	Sample pre-treatment methods for the trace elements determination in seafood products by atomic absorption spectrometry. <i>Talanta</i> , 2002 , 57, 969-84	6.2	33
133	Rapid acid leaching and slurry sampling procedures for the determination of methyl-mercury and total mercury in human hair by electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1999 , 398, 263-272	6.6	33
132	Cannabinoids assessment in plasma and urine by high performance liquid chromatography-tandem mass spectrometry after molecularly imprinted polymer microsolid-phase extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1207-1220	4.4	32
131	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	6.6	32
130	Application of ultrasound-assisted acid leaching procedures for major and trace elements determination in edible seaweed by inductively coupled plasma-optical emission spectrometry. <i>Talanta</i> , 2005 , 66, 937-42	6.2	32
129	On-line ionic imprinted polymer selective solid-phase extraction of nickel and lead from seawater and their determination by inductively coupled plasma-optical emission spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 1107-15	4.4	31
128	Matrix solid-phase dispersion on column clean-up/pre-concentration as a novel approach for fast isolation of abuse drugs from human hair. <i>Journal of Chromatography A</i> , 2010 , 1217, 6342-9	4.5	31
127	Development of a micro-solid-phase extraction molecularly imprinted polymer technique for synthetic cannabinoids assessment in urine followed by liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1550, 8-20	4.5	30
126	Direct tandem mass spectrometry for the simultaneous assay of opioids, cocaine and metabolites in dried urine spots. <i>Analytica Chimica Acta</i> , 2013 , 784, 25-32	6.6	30
125	Improvements on enzymatic hydrolysis of human hair for illicit drug determination by gas chromatography/mass spectrometry. <i>Analytical Chemistry</i> , 2007 , 79, 8564-70	7.8	30
124	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, 441-9	4.4	30

123	Speeding up enzymatic hydrolysis procedures for the multi-element determination in edible seaweed. <i>Analytica Chimica Acta</i> , 2005 , 548, 183-191	6.6	30
122	Development and application of molecularly imprinted polymer - Mn-doped ZnS quantum dot fluorescent optosensing for cocaine screening in oral fluid and serum. <i>Talanta</i> , 2018 , 181, 232-238	6.2	27
121	Simultaneous determination of cocaine and opiates in dried blood spots by electrospray ionization tandem mass spectrometry. <i>Talanta</i> , 2013 , 117, 235-41	6.2	27
120	In vitro bioavailability of total selenium and selenium species from seafood. <i>Food Chemistry</i> , 2013 , 139, 872-7	8.5	27
119	Determination of aluminium and manganese in human scalp hair by electrothermal atomic absorption spectrometry using slurry sampling. <i>Talanta</i> , 1998 , 45, 1147-54	6.2	27
118	Factorial designs for Cd, Cr, Hg, Pb and Se ultrasound-assisted acid leaching from human hair followed by atomic absorption spectrometric determination. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 121-130	3.7	27
117	Electrospray ionization tandem mass spectrometry for the simultaneous determination of opiates and cocaine in human hair. <i>Analytica Chimica Acta</i> , 2011 , 704, 123-32	6.6	26
116	Usefulness of enzymatic hydrolysis procedures based on the use of pronase E as sample pre-treatment for multi-element determination in biological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1893-1900	3.7	26
115	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	6.6	26
114	A review on preparative and semi-preparative offgel electrophoresis for multidimensional protein/peptide assessment. <i>Analytica Chimica Acta</i> , 2014 , 836, 1-17	6.6	25
113	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	14.6	25
112	Ultrasound-assisted solvent extraction of total polycyclic aromatic hydrocarbons from mussels followed by spectrofluorimetric determination. <i>Talanta</i> , 2005 , 66, 683-90	6.2	25
111	Gas chromatographic-mass spectrometric analysis of residual solvent trapped into illicit cocaine exhibits using head-space solid-phase microextraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002 , 772, 249-56	3.2	25
110	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	6.2	24
109	Polyphenol bioavailability in nuts and seeds by an in vitro dialyzability approach. <i>Food Chemistry</i> , 2018 , 254, 20-25	8.5	23
108	HPLC-MS/MS combined with membrane-protected molecularly imprinted polymer micro-solid-phase extraction for synthetic cathinones monitoring in urine. <i>Drug Testing and Analysis</i> , 2019 , 11, 33-44	3.5	23
107	Matrix solid phase dispersion-assisted BCR sequential extraction method for metal partitioning in surface estuarine sediments. <i>Talanta</i> , 2011 , 83, 840-9	6.2	23
106	Fractionation metallothionein-like proteins in mussels with on line metal detection by high performance liquid chromatography-inductively coupled plasma-optical emission spectrometry. <i>Talanta</i> , 2007 , 71, 1580-6	6.2	23

105	Combined assisted extraction techniques as green sample pre-treatments in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 118, 1-18	14.6	22
104	Pressurized liquid extraction as a novel sample pre-treatment for trace element leaching from biological material. <i>Analytica Chimica Acta</i> , 2006 , 572, 172-9	6.6	22
103	Optimization of a microwave-pseudo-digestion procedure by experimental designs for the determination of trace elements in seafood products by atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000 , 55, 1351-1371	3.1	22
102	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	3.7	21
101	Use of enzymatic hydrolysis for the multi-element determination in mussel soft tissue by inductively coupled plasma-atomic emission spectrometry. <i>Talanta</i> , 2004 , 64, 671-81	6.2	21
100	Enzymatic hydrolysis as a sample pre-treatment for titanium dioxide nanoparticles assessment in surimi (crab sticks) by single particle ICP-MS. <i>Talanta</i> , 2019 , 195, 23-32	6.2	20
99	Ultrasound assisted enzymatic hydrolysis for isolating titanium dioxide nanoparticles from bivalve mollusk before sp-ICP-MS. <i>Analytica Chimica Acta</i> , 2018 , 1018, 16-25	6.6	19
98	Characterization of edible seaweed harvested on the Galician coast (northwestern Spain) using pattern recognition techniques and major and trace element data. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 1986-92	5.7	19
97	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		19
96	Characterization of surface marine sediments from R� de Arousa estuary according to extractable humic matter content. <i>Chemosphere</i> , 2006 , 64, 866-73	8.4	19
95	New trends involving the use of ultrasound energy for the extraction of humic substances from marine sediments. <i>Analytica Chimica Acta</i> , 2004 , 524, 97-107	6.6	19
94	Room temperature phosphorescent determination of aflatoxins in fish feed based on molecularly imprinted polymer - Mn-doped ZnS quantum dots. <i>Analytica Chimica Acta</i> , 2020 , 1103, 183-191	6.6	19
93	Magnetic molecularly imprinted polymer based �micro-solid phase extraction of cocaine and metabolites in plasma followed by high performance liquid chromatography � tandem mass spectrometry. <i>Microchemical Journal</i> , 2016 , 127, 206-212	4.8	19
92	Speciation of iodine-containing proteins in Nori seaweed by gel electrophoresis laser ablation ICP-MS. <i>Talanta</i> , 2014 , 127, 175-80	6.2	18
91	Ultrasound assisted combined molecularly imprinted polymer for the selective micro-solid phase extraction and determination of aflatoxins in fish feed using liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2020 , 1609, 460431	4.5	17
90	Estuarine sediment quality assessment by Fourier-transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2010 , 53, 204-213	2.1	16
89	On-line preconcentration cold vapour atomic absorption spectrometry for the determination of trace mercury in edible seaweeds. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 573-577	3.7	16
88	Application of microwave energy to speed up the alkaline extraction of humic and fulvic acids from marine sediments. <i>Analytica Chimica Acta</i> , 2007 , 602, 202-10	6.6	16

87	Multi-element determination in raft mussels by fast microwave-assisted acid leaching and inductively coupled plasma-optical emission spectrometry. <i>Talanta</i> , 2007 , 72, 1178-85	6.2	16
86	Application of multivariate methods to scalp hair metal data to distinguish between drug-free subjects and drug abusers. <i>Analytica Chimica Acta</i> , 2002 , 455, 253-265	6.6	16
85	Optimization of a multielement sequential extraction method employing an experimental design approach for metal partitioning in soils and sediments. <i>Journal of Environmental Monitoring</i> , 2002 , 4, 330-6		15
84	Use of aqueous slurry sampling for the determination of lead in human hair samples by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 1996 , 43, 1099-107	6.2	15
83	An improved method for the determination of Δ -tetrahydrocannabinol, cannabinol and cannabidiol in hair by liquid chromatography tandem mass spectrometry. <i>Microchemical Journal</i> , 2014 , 117, 7-17	4.8	14
82	Multi-walled carbon nanotubes solid phase extraction for isolating marine dissolved organic matter before characterization by size exclusion chromatography. <i>Microchemical Journal</i> , 2012 , 102, 75-82	4.8	14
81	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, 1783-92	6.2	14
80	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	3.7	13
79	Size exclusion and anion exchange high performance liquid chromatography for characterizing metals bound to marine dissolved organic matter. <i>Analytica Chimica Acta</i> , 2013 , 760, 83-92	6.6	13
78	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	6.6	13
77	Feasibility of pressurization to speed up enzymatic hydrolysis of biological materials for multielement determinations. <i>Analytical Chemistry</i> , 2007 , 79, 1797-805	7.8	13
76	Determination and characterization of silver nanoparticles in bivalve molluscs by ultrasound assisted enzymatic hydrolysis and sp-ICP-MS. <i>Microchemical Journal</i> , 2019 , 148, 652-660	4.8	12
75	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	6.2	12
74	Matrix solid phase dispersion assisted enzymatic hydrolysis as a novel approach for cocaine and opiates isolation from human hair. <i>Journal of Chromatography A</i> , 2013 , 1316, 15-22	4.5	12
73	Determination of traces of silver in human scalp hair slurries by electrothermal atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 1998 , 129, 71-76	5.8	12
72	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	3.1	12
71	Multivariate optimization of solvent extraction with 1,1,1-trifluoroacetylacetones for the determination of total and labile Cu and Fe in river surface water by flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002 , 57, 1951-1966	3.1	12
70	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	5.8	12

69	Silver nanoparticles assessment in moisturizing creams by ultrasound assisted extraction followed by sp-ICP-MS. <i>Talanta</i> , 2019 , 197, 530-538	6.2	11
68	Ionic imprinted polymer solid-phase extraction for inorganic arsenic selective pre-concentration in fishery products before high-performance liquid chromatography - inductively coupled plasma-mass spectrometry speciation. <i>Journal of Chromatography A</i> , 2020 , 1619, 460973	4.5	11
67	Study of extraction procedures for protein analysis in plankton samples by OFFGEL electrophoresis hyphenated with Lab-on-a-chip technology. <i>Talanta</i> , 2013 , 115, 631-41	6.2	11
66	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, 283-91	6.2	11
65	ICP-MS for the determination of selenium bioavailability from seafood and effect of major food constituents. <i>Microchemical Journal</i> , 2013 , 108, 174-179	4.8	11
64	Alternative Solid Sample Pretreatment Methods in Green Analytical Atomic Spectrometry. <i>Spectroscopy Letters</i> , 2009 , 42, 394-417	1.1	11
63	Screening of humic and fulvic acids in estuarine sediments by near-infrared spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 392, 541-9	4.4	11
62	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	6.6	11
61	A Study of Illicit Cocaine Seizure Classification by Pattern Recognition Techniques Applied to Metal Data. <i>Journal of Forensic Sciences</i> , 1999 , 44, 14451J	1.8	11
60	Spectrometric-based techniques for metal-binding protein assessment in clinical, environmental, and food samples. <i>Applied Spectroscopy Reviews</i> , 2017 , 52, 145-174	4.5	10
59	Two-dimensional isoelectric focusing OFFGEL and microfluidic lab-on-chip electrophoresis for assessing dissolved proteins in seawater. <i>Analytical Chemistry</i> , 2013 , 85, 5909-16	7.8	10
58	Determination of nickel in human scalp hair by slurry sampling Electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1997 , 349, 319-325	6.6	10
57	Determination of traces of chromium in cocaine and heroin by flameless atomic absorption spectrometry. <i>Talanta</i> , 1996 , 43, 77-87	6.2	10
56	Mercury speciation in edible seaweed by liquid chromatography - Inductively coupled plasma mass spectrometry after ionic imprinted polymer-solid phase extraction. <i>Talanta</i> , 2021 , 224, 121841	6.2	10
55	Trace metals distribution in surface and deep seawater from the Ría de Arousa estuary (north-western Spain). <i>Microchemical Journal</i> , 2011 , 97, 122-130	4.8	9
54	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		9
53	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	3.7	9
52	New adsorbents based on imprinted polymers and composite nanomaterials for arsenic and mercury screening/speciation: A review. <i>Microchemical Journal</i> , 2020 , 156, 104886	4.8	8

51	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		8
50	Concentrations of iodide and total iodine in edible seaweeds harvested on the Galician coast (Northwest Spain). <i>Botanica Marina</i> , 2007 , 50,	1.8	8
49	Study of ammonium molybdate to minimize the phosphate interference in the selenium determination by electrothermal atomic absorption spectrometry with deuterium background correction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002 , 57, 327-337	3.1	8
48	Combining ultrasound-assisted extraction and vortex-assisted liquid-liquid microextraction for the sensitive assessment of aflatoxins in aquaculture fish species. <i>Journal of Separation Science</i> , 2020 , 43, 1331-1338	3.4	7
47	Synthesis and application of a surface ionic imprinting polymer on silica-coated Mn-doped ZnS quantum dots as a chemosensor for the selective quantification of inorganic arsenic in fish. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 1663-1673	4.4	7
46	Assessment of metals bound to marine plankton proteins and to dissolved proteins in seawater. <i>Analytica Chimica Acta</i> , 2013 , 804, 59-65	6.6	7
45	Direct electrothermal atomic absorption spectrometry determination of nickel in sea water using multiple hot injection and Zeeman correction. <i>Talanta</i> , 1998 , 45, 807-15	6.2	7
44	Chemometric investigation of systematic error in the analysis of biological materials by flame and electrothermal atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2006 , 560, 143-152	6.6	7
43	Chemometrics approaches for the study of systematic error in inductively coupled plasma atomic emission spectrometry and mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 350-359	3.7	7
42	Ionic imprinted polymer - Vortex-assisted dispersive micro-solid phase extraction for inorganic arsenic speciation in rice by HPLC-ICP-MS. <i>Talanta</i> , 2020 , 220, 121418	6.2	7
41	Size exclusion chromatography - Inductively coupled plasma - Mass spectrometry for determining metal-low molecular weight compound complexes in natural wines. <i>Talanta</i> , 2019 , 195, 558-565	6.2	7
40	Size characterization and quantification of titanium dioxide nano- and microparticles-based products by Asymmetrical Flow Field-Flow Fractionation coupled to Dynamic Light Scattering and Inductively Coupled Plasma Mass Spectrometry. <i>Analytica Chimica Acta</i> , 2020 , 1122, 20-30	6.6	6
39	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	5.8	6
38	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	3.7	6
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36	MIPs as a Versatile Tool for Micro-Solid-Phase Extraction and Probe Sensing. <i>Current Chemical Biology</i> , 2018 , 12, 114-134	0.4	6
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