

Pilar Bermejo Barrera

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287
papers

5,491
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37
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51
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294
ext. papers

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
287	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
286	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
285	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
284	A review on iodine speciation for environmental, biological and nutrition fields. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 2107	3.7	77
283	Functionalized gold nanoparticles for the detection of arsenic in water. <i>Talanta</i> , 2014 , 118, 262-9	6.2	76
282	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
281	Enzymatic digestion and ultrasonication: a powerful combination in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2004 , 23, 654-663	14.6	70
280	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
279	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
278	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
277	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
276	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
275	Evaluation of number concentration quantification by single-particle inductively coupled plasma mass spectrometry: microsecond vs. millisecond dwell times. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 5089-97	4.4	56
274	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
273	Use of Amberlite XAD-2 Loaded with 1-(2-Pyridylazo)-2-naphthol as a Preconcentration System for River Water Prior to Determination of Cu ²⁺ , Cd ²⁺ and Pb ²⁺ by Flame Atomic Absorption Spectroscopy. <i>Mikrochimica Acta</i> , 2003 , 142, 101-108	5.8	53
272	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
271	Solid phase extraction using molecular imprinted polymers for phthalate determination in water and wine samples by HPLC-ESI-MS. <i>Microchemical Journal</i> , 2017 , 132, 233-237	4.8	50

270	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
269	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
268	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
267	Trace metals in marine foodstuff: Bioavailability estimation and effect of major food constituents. <i>Food Chemistry</i> , 2012 , 134, 339-345	8.5	45
266	Selenium speciation in cow milk obtained after supplementation with different selenium forms to the cow feed using liquid chromatography coupled with hydride generation-atomic fluorescence spectrometry. <i>Talanta</i> , 2007 , 71, 1587-93	6.2	44
265	Simultaneous determination and speciation analysis of arsenic and chromium in iron supplements used for iron-deficiency anemia treatment by HPLC-ICP-MS. <i>Talanta</i> , 2017 , 170, 523-529	6.2	43
264	Analysis of brain regional distribution of aluminium in rats via oral and intraperitoneal administration. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007 , 21 Suppl 1, 31-4	4.1	43
263	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
262	Selenium levels in related biological samples: human placenta, maternal and umbilical cord blood, hair and nails. <i>Journal of Trace Elements in Medicine and Biology</i> , 2005 , 19, 49-54	4.1	42
261	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
260	Bioavailability assessment of essential and toxic metals in edible nuts and seeds. <i>Food Chemistry</i> , 2016 , 205, 146-54	8.5	41
259	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
258	Evaluation of an in vitro method to estimate trace elements bioavailability in edible seaweeds. <i>Talanta</i> , 2010 , 82, 1668-73	6.2	40
257	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
256	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
255	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	3.1	40
254	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
253	Speciation of iron in breast milk and infant formulas whey by size exclusion chromatography-high performance liquid chromatography and electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2000 , 50, 1211-22	6.2	39

252	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
251	Optimization of a vapour generation method for metal determination using ICP-OES. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 642-649	3.7	38
250	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 , 1391, 9-17	4.5	37
249	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
248	Selective medium reactions for the arsenic(III) and 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	6.6	37
247	Quantitative Energy-Filtering Transmission Electron Microscopy (EFTEM). <i>Mikrochimica Acta</i> , 1999 , 131, 145-151	5.8	37
246	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
245	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
244	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
243	Chromium available fractions in arosa sediments using a modified microwave BCR protocol based on microwave assisted extraction. <i>Talanta</i> , 2005 , 65, 678-85	6.2	36
242	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
241	Phthalates determination in physiological saline solutions by HPLC-ES-MS. <i>Talanta</i> , 2008 , 75, 1184-9	6.2	35
240	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
239	Study of the bioavailability of selenium in cows milk after a supplementation of cow feed with different forms of selenium. <i>Analytical and Bioanalytical Chemistry</i> , 2006 , 385, 189-96	4.4	35
238	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
237	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
236	Selenium content and distribution in cow's milk supplemented with two dietary selenium sources. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 9817-22	5.7	34
235	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	3.7	34

234	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
233	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
232	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
231	Separation of gallium and indium from ores matrix by sorption on Amberlite XAD-2 coated with PAN. <i>Fresenius Journal of Analytical Chemistry</i> , 2001 , 369, 191-4		33
230	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
229	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
228	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
227	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
226	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
225	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
224	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
223	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
222	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
221	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
220	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
219	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
218	Two-dimensional HPLC coupled to ICP-MS and electrospray ionisation (ESI)-MS/MS for investigating the bioavailability in vitro of arsenic species from edible seaweed. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 3359-69	4.4	29
217	Iron and zinc in hydrolysed fractions of human milk and infant formulas using an in vitro method. <i>Food Chemistry</i> , 2002 , 77, 361-369	8.5	29

216	Slurry sampling for the determination of lead in marine sediments by electrothermal atomic absorption spectrometry using palladium-magnesium nitrate as a chemical modifier. <i>Journal of Analytical Atomic Spectrometry</i> , 1994 , 9, 469-475	3.7	29
215	Application of High Resolution-Continuum Source Flame Atomic Absorption Spectrometry (HR-CS FAAS): determination of trace elements in tea and tisanes. <i>Food Chemistry</i> , 2015 , 170, 492-500	8.5	28
214	Indirect atomic absorption spectrometry (IAAS) as a tool for the determination of iodide in infant formulas by precipitation of AgI and redissolution with cyanide. <i>Microchemical Journal</i> , 2001 , 69, 205-214	4.8	28
213	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
212	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
211	In vitro bioavailability of total selenium and selenium species from seafood. <i>Food Chemistry</i> , 2013 , 139, 872-7	8.5	27
210	Effect of the cooking procedure on the arsenic speciation in the bioavailable (dialyzable) fraction from seaweed. <i>Microchemical Journal</i> , 2012 , 105, 65-71	4.8	27
209	Blood lead and cadmium levels in a six hospital employee population. PESA study, 2009. <i>Journal of Trace Elements in Medicine and Biology</i> , 2011 , 25 Suppl 1, S22-9	4.1	27
208	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
207	Determination of iodine in human milk and infant formulas. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007 , 21 Suppl 1, 10-3	4.1	27
206	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
205	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
204	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
203	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
202	Determination of bisphenol A in tea samples by solid phase extraction and liquid chromatography coupled to mass spectrometry. <i>Microchemical Journal</i> , 2019 , 147, 598-604	4.8	25
201	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
200	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
199	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

198	Characterization of estuarine sediments by near infrared diffuse reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 2008 , 624, 113-27	6.6	24
197	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
196	Palladiummagnesium nitrate as a chemical modifier for the determination of lead in mussel slurries by electrothermal atomic absorption spectrometry. <i>Analyt, The</i> , 1993 , 118, 665-668	5	24
195	Polyphenol bioavailability in nuts and seeds by an in vitro dialyzability approach. <i>Food Chemistry</i> , 2018 , 254, 20-25	8.5	23
194	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
193	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
192	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
191	Flow on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry for selective As(III) determination in sea-water samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 662	3.7	23
190	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
189	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
188	Evaluation of Iodine Bioavailability in Seaweed Using in Vitro Methods. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 8435-8442	5.7	21
187	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
186	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
185	Microwave-assisted distillation of iodine for the indirect atomic absorption spectrometric determination of iodide in milk samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 382-389	3.7	21
184	Separation of Cr(III) and Cr(VI) using complexation of Cr(III) with 8-hydroxyquinoline and determination of both species in waters by ETA-AAS. <i>Fresenius Journal of Analytical Chemistry</i> , 1992 , 344, 301-305		21
183	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
182	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
181	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

180	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
179	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
178	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
177	Determination of total selenium and selenium distribution in the milk phases in commercial cow milk by HG-AAS. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 1145-51	4.4	19
176	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
175	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
174	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
173	Column preconcentration of organotin with tropolone-immobilized and their determination by electrothermal atomization absorption spectrometry. <i>Talanta</i> , 1998 , 46, 1479-84	6.2	18
172	Direct speciation analysis of Cr(VI) by electrothermal atomic absorption spectrometry, based on the volatilization of Cr(III)phenyltrifluoroacetate from the graphite furnace. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003 , 58, 167-173	3.1	18
171	Phthalates determination in pharmaceutical formulae used in parenteral nutrition by LC-ES-MS: importance in public health. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 529-35	4.4	17
170	Copper fractionation by SEC-HPLC and ETAAS: study of breast milk and infant formulae whey used in lactation of full-term newborn infants. <i>Analyst, The</i> , 2001 , 126, 571-5	5	17
169	Atomic absorption spectrometry as an alternate technique for iodine determination (1968-1998). <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1009-1018	3.7	17
168	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
167	Estuarine sediment quality assessment by Fourier-transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2010 , 53, 204-213	2.1	16
166	Use of high resolution continuum source atomic absorption spectrometry as a detector for chemically generated noble and transition metal vapors. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009 , 64, 659-665	3.1	16
165	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
164	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
163	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

162	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
161	Study of the effect of different iron salts used to fortify infant formulas on the bioavailability of trace elements using ICP-OES. <i>International Dairy Journal</i> , 2004 , 14, 1081-1087	3.5	15
160	Speciation of arsenic by the determination of total arsenic and arsenic(III) in marine sediment samples by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1995 , 10, 247-252	3.7	15
159	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
158	Speciation of chromium by the determination of total chromium and chromium(III) by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993 , 8, 649-653	3.7	15
157	Simultaneous determination of copper and cobalt with EDTA using derivative spectrophotometry. <i>Analyst, The</i> , 1985 , 110, 1313	5	15
156	Synthesis of an imprinted polymer for the determination of methylmercury in marine products. <i>Talanta</i> , 2015 , 144, 636-41	6.2	14
155	Copper Increases Brain Oxidative Stress and Enhances the Ability of 6-Hydroxydopamine to Cause Dopaminergic Degeneration in a Rat Model of Parkinson's Disease. <i>Molecular Neurobiology</i> , 2019 , 56, 2845-2854	6.2	14
154	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
153	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
152	Presence of phthalates in contact lens and cleaning solutions. <i>Microchemical Journal</i> , 2011 , 99, 108-113	4.8	14
151	Direct determination of Fe and Zn in different components of cow milk by FAAS with a high performance nebulizer. <i>Talanta</i> , 1997 , 45, 325-30	6.2	14
150	Use of lanthanum hydroxide as a trapping agent to determine of hydrides by HG-ICP-OES. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 1344	3.7	14
149	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
148	Cloud point extraction and ICP-MS for titanium speciation in water samples. <i>Microchemical Journal</i> , 2020 , 152, 104264	4.8	14
147	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
146	Analytical performance of a lab-made concomitant metal analyzer to generate volatile species of Ag, Au, Cd, Cu, Ni, Sn and Zn using 8-hydroxyquinoline as a reaction media. <i>Talanta</i> , 2012 , 100, 45-50	6.2	13
145	Comparison of two lab-made spray chambers based on MSIS for simultaneous metal determination using vapor generation-inductively coupled plasma optical emission spectroscopy. <i>Analytica Chimica Acta</i> , 2012 , 749, 36-43	6.6	13

144	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
143	Indirect flow-injection determination of ascorbic acid by flame atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 1997 , 126, 53-58	5.8	13
142	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
141	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
140	Study of cadmium, lead and tin distribution in surface marine sediment samples from Ria de Arousa (NW of Spain). <i>Analytica Chimica Acta</i> , 2004 , 524, 115-120	6.6	13
139	Direct determination of tin in tap waters by electrothermal atomization atomic absorption spectroscopy. <i>Fresenius Journal of Analytical Chemistry</i> , 1993 , 345, 60-62		13
138	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
137	Possibilities of single particle-ICP-MS for determining/characterizing titanium dioxide and silver nanoparticles in human urine. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019 , 54, 55-61	4.1	12
136	NMR spectroscopy for assessing cocaine-functional monomer interactions when preparing molecularly imprinted polymers. <i>Microchemical Journal</i> , 2019 , 147, 813-817	4.8	12
135	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
134	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
133	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
132	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
131	Multivariate optimization of solvent extraction with 1,1,1-trifluoroacetylacetonates 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
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129	Determination of vanadium in water by electrothermal atomisation atomic absorption spectrometry after extraction with 8-hydroxyquinoline in isobutyl methyl ketone. <i>Analyst, The</i> , 1990 , 115, 545-7	5	12
128	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
127	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

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124	Alternative Solid Sample Pretreatment Methods in Green Analytical Atomic Spectrometry. <i>Spectroscopy Letters</i> , 2009 , 42, 394-417	1.1	11
123	Determination of tin in marine sediment slurries by electrothermal atomic absorption spectrometry using palladium-magnesium nitrate as chemical modifier. <i>Fresenius Journal of Analytical Chemistry</i> , 1997 , 357, 274-278		11
122	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
121	Traces of cadmium in human scalp hair measured by electrothermal atomic absorption spectrometry with the slurry sampling technique. <i>Clinical Chemistry</i> , 1996 , 42, 1287-1288	5.5	11
120	Optimization of a Liquid-Liquid Extraction Procedure of Butyltin Compounds and Total Tin in Marine Water Samples Using Flame Atomic Absorption Spectrometry. <i>Microchemical Journal</i> , 1996 , 53, 395-403	4.8	11
119	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
118	A Study of Illicit Cocaine Seizure Classification by Pattern Recognition Techniques Applied to Metal Data. <i>Journal of Forensic Sciences</i> , 1999 , 44, 1445-1J	1.8	11
117	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
116	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
115	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
114	Indirect determination of cyclamate by an on-line continuous precipitation-dissolution flow system. <i>Talanta</i> , 1998 , 45, 1115-22	6.2	10
113	Silicon determination in milk by electrothermal atomic absorption spectrometry using palladium as chemical modifier. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 1290-3	4.4	10
112	Determination of selenium in infant formulas whey fractions by SEC-HPLC-HG-ETAAS. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 188-193	3.7	10
111	Determination of traces of chromium in cocaine and heroin by flameless atomic absorption spectrometry. <i>Talanta</i> , 1996 , 43, 77-87	6.2	10
110	Determination of vanadium in water by atomic absorption spectrometry with electrothermal atomization and using hot injection and preconcentration on the graphite tube. <i>Analytica Chimica Acta</i> , 1990 , 236, 475-477	6.6	10
109	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

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103	Use of High-Resolution Continuum Source Flame Atomic Absorption Spectrometry (HR-CS FAAS) for Sequential Multi-Element Determination of Metals in Seawater and Wastewater Samples. <i>Journal of Applied Spectroscopy</i> , 2015 , 82, 681-686	0.7	8
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84	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
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