

Isela Lavilla

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

144
papers

5,246
citations

40
h-index

66
g-index

145
ext. papers

5,626
ext. citations

5.8
avg. IF

5.83
L-index

#	Paper	IF	Citations
144	Bromine speciation by a paper-based sensor integrated with a citric acid/cysteamine fluorescent probe and smartphone detection. <i>Sensors and Actuators B: Chemical</i> , 2022 , 358, 131499	8.5	0
143	Dynamic thin-film microextraction method using cellulose platforms modified with silver nanoparticles for preconcentration of volatile hydride-forming elements prior to inductively-coupled plasma mass spectrometry determination. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> 2022 , 189, 106373	3.1	0
142	Ultrasound-assisted dispersive micro-solid phase extraction of Pb(II) in water samples with in situ synthesis of magnetic Fe ₃ O ₄ -PbS nanocomposites followed by electrothermal atomic absorption spectrometry determination. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022 , 188, 106349	3.1	3
141	Waterproof Cellulose-Based Substrates for In-Drop Plasmonic Colorimetric Sensing of Volatiles: Application to Acid-Labile Sulfide Determination in Waters.. <i>ACS Sensors</i> , 2022 ,	9.2	1
140	Paper-Based Analytical Devices for Colorimetric and Luminescent Detection of Mercury in Waters: An Overview. <i>Sensors</i> , 2021 , 21,	3.8	2
139	Nanomaterial-Integrated Cellulose Platforms for Optical Sensing of Trace Metals and Anionic Species in the Environment. <i>Sensors</i> , 2021 , 21,	3.8	6
138	Assessing citric acid-derived luminescent probes for pH and ammonia sensing: A comprehensive experimental and theoretical study. <i>Analytica Chimica Acta</i> , 2021 , 1186, 339125	6.6	3
137	A paper-based gas sensor for simultaneous noninstrumental colorimetric detection of nitrite and sulfide in waters. <i>Journal of Separation Science</i> , 2020 , 43, 1908-1914	3.4	7
136	Nanomaterials for the detection of halides and halogen oxyanions by colorimetric and luminescent techniques: A critical overview. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 125, 115837	14.6	10
135	Nanoparticle-assisted stabilization of metal species as an alternative to conventional approaches for avoiding volatilization errors in total reflection X-ray fluorescence: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2020 , 168, 105843	3.1	3
134	A paper-based colorimetric assay with non-instrumental detection for determination of boron in water samples. <i>Talanta</i> , 2020 , 208, 120365	6.2	12
133	Speciation of CdTe quantum dots and Te(IV) following oxidative degradation induced by iodide and headspace single-drop microextraction combined with graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 158, 105631	3.1	9
132	One-pot synthesis of a magnetic nanocomposite based on ultrasound-assisted co-precipitation for enrichment of Hg(II) prior to detection by a direct mercury analyzer. <i>Talanta</i> , 2019 , 199, 449-456	6.2	9
131	Fluorescent poly(vinylpyrrolidone)-supported copper nanoclusters in miniaturized analytical systems for iodine sensing. <i>Sensors and Actuators B: Chemical</i> , 2019 , 299, 126979	8.5	12
130	Solid-phase extraction of Hg(II) using cellulose filters modified with silver nanoparticles followed by pyrolysis and detection by a direct mercury analyzer. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 161, 105697	3.1	10
129	Direct immersion thin-film microextraction method based on the sorption of pyrrolidine dithiocarbamate metal chelates onto graphene membranes followed by total reflection X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2019 , 152, 14-24	3.1	19
128	Turn-on fluorescent sensor for the detection of periodate anion following photochemical synthesis of nitrogen and sulphur co-doped carbon dots from vegetables. <i>Sensors and Actuators B: Chemical</i> , 2019 , 280, 290-297	8.5	27

127	Speciation of gold nanoparticles and total gold in natural waters: A novel approach based on naked magnetite nanoparticles in combination with ascorbic acid. <i>Talanta</i> , 2019 , 193, 176-183	6.2	10
126	Ultrasound Extractions ? 2018 ,		2
125	Test for arsenic speciation in waters based on a paper-based analytical device with scanometric detection. <i>Analytica Chimica Acta</i> , 2018 , 1011, 1-10	6.6	33
124	Ratiometric detection of total bromine in E-waste polymers by colloidal gold-based headspace single-drop microextraction and microvolume spectrophotometry. <i>Sensors and Actuators B: Chemical</i> , 2018 , 261, 481-488	8.5	11
123	Gold nanorods for in-drop colorimetric determination of thiomersal after photochemical decomposition. <i>Mikrochimica Acta</i> , 2018 , 185, 221	5.8	6
122	Main Chemical Contaminants in Cosmetics: Regulatory Aspects and Analytical Methods 2018 , 331-383		1
121	In situ ultrasound-assisted preparation of Fe ₃ O ₄ @MnO ₂ core-shell nanoparticles integrated with ion co-precipitation for multielemental analysis by total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017 , 131, 40-47	3.1	11
120	Simultaneous ultrasound-assisted iodide oxidation and liquid-liquid microextraction for rapid quality control of iodized salts by UV-Vis micro-spectrophotometry. <i>Microchemical Journal</i> , 2017 , 133, 577-582	4.8	4
119	Speciation of inorganic As and Sb in natural waters by total reflection X-ray fluorescence following selective hydride generation and trapping onto quartz reflectors coated with nanostructured Pd. <i>Journal of Analytical Atomic Spectrometry</i> , 2017 , 32, 1705-1712	3.7	6
118	Headspace single-drop microextraction coupled with microvolume fluorospectrometry for highly sensitive determination of bromide. <i>Talanta</i> , 2017 , 170, 9-14	6.2	21
117	Natural deep eutectic solvents in combination with ultrasonic energy as a green approach for solubilisation of proteins: application to gluten determination by immunoassay. <i>Talanta</i> , 2017 , 162, 453-459	6.2	64
116	Unmodified gold nanoparticles for in-drop plasmonic-based sensing of iodide. <i>Sensors and Actuators B: Chemical</i> , 2017 , 242, 940-948	8.5	14
115	A critical assessment of ultrasound-assisted extraction as sample pre-treatment for fast determination of multielements in seafood using inductively coupled plasma mass spectrometry. <i>Microchemical Journal</i> , 2017 , 130, 458-464	4.8	7
114	Paper-based analytical device for instrumental-free detection of thiocyanate in saliva as a biomarker of tobacco smoke exposure. <i>Talanta</i> , 2016 , 147, 390-6	6.2	42
113	Headspace thin-film microextraction onto graphene membranes for specific detection of methyl(cyclopentadienyl)-tricarbonyl manganese in water samples by total reflection X-ray fluorescence. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016 , 126, 65-70	3.1	9
112	Nanoparticle-assisted chemical speciation of trace elements. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 77, 109-121	14.6	29
111	Graphene membranes as novel preconcentration platforms for chromium speciation by total reflection X-ray fluorescence. <i>RSC Advances</i> , 2016 , 6, 669-676	3.7	18
110	Ultrasensitive determination of mercury in waters via photochemical vapor deposition onto quartz substrates coated with palladium nanoparticles followed by total reflection X-ray fluorescence analysis. <i>Mikrochimica Acta</i> , 2016 , 183, 141-148	5.8	10

109	Liquid-phase microextraction combined with graphite furnace atomic absorption spectrometry: A review. <i>Analytica Chimica Acta</i> , 2016 , 936, 12-39	6.6	37
108	Luminescent assays based on carbon dots for inorganic trace analysis. <i>Reviews in Analytical Chemistry</i> , 2015 , 34,	2.3	5
107	Room temperature trapping of stibine and bismuthine onto quartz substrates coated with nanostructured palladium for total reflection X-ray fluorescence analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2015 , 107, 125-131	3.1	12
106	Nanoparticle-enhanced liquid-phase microextraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2015 , 68, 78-87	14.6	46
105	In situ photochemical synthesis of fluorescent carbon dots for optical sensing of hydrogen peroxide and antioxidants. <i>Talanta</i> , 2015 , 144, 1308-15	6.2	20
104	Facile preparation of an immobilized surfactant-free palladium nanocatalyst for metal hydride trapping: a novel sensing platform for TXRF analysis. <i>Nanoscale</i> , 2015 , 7, 1994-2002	7.7	12
103	In situ growth of Fe ₃ O ₄ nanoparticles for dispersive magnetic micro-solid phase extraction of cadmium followed by ETAAS detection. <i>Analytical Methods</i> , 2015 , 7, 1154-1160	3.2	15
102	An overview of sample preparation for the determination of parabens in cosmetics. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 57, 34-46	14.6	56
101	An overview of recent advances in the application of quantum dots as luminescent probes to inorganic-trace analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 57, 64-72	14.6	60
100	Ultrasensitive, simple and solvent-free micro-assay for determining sulphite preservatives (E220-228) in foods by HS-SDME and UV-vis micro-spectrophotometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 2133-40	4.4	14
99	Silver nanoparticle-assisted preconcentration of selenium and mercury on quartz reflectors for total reflection X-ray fluorescence analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2014 , 29, 696	3.7	18
98	In situ building of a nanoprobe based on fluorescent carbon dots for methylmercury detection. <i>Analytical Chemistry</i> , 2014 , 86, 4536-43	7.8	109
97	Greener derivatization in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 61, 1-10	14.6	48
96	A Solvent Microextraction Approach for Environmental Analysis: Colorimetric Assay for Phosphorus Determination in Natural Waters. <i>Journal of Chemical Education</i> , 2014 , 91, 586-589	2.4	6
95	Coumarins as turn on/off fluorescent probes for detection of residual acetone in cosmetics following headspace single-drop microextraction. <i>Talanta</i> , 2014 , 129, 113-8	6.2	19
94	Sample pretreatment strategies for total reflection X-ray fluorescence analysis: A tutorial review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013 , 90, 23-54	3.1	80
93	Solid-state chemiluminescence assay for ultrasensitive detection of antimony using on-vial immobilization of CdSe quantum dots combined with liquid-liquid-liquid microextraction. <i>Analytica Chimica Acta</i> , 2013 , 788, 114-21	6.6	17
92	Fast method for multielemental analysis of plants and discrimination according to the anatomical part by total reflection X-ray fluorescence spectrometry. <i>Food Chemistry</i> , 2013 , 138, 234-41	8.5	42

91	In situ ultrasound-assisted synthesis of Fe ₃ O ₄ nanoparticles with simultaneous ion co-precipitation for multielemental analysis of natural waters by total reflection X-ray fluorescence spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013 , 28, 923	3.7	21
90	Authentication of Fishery Products. <i>Comprehensive Analytical Chemistry</i> , 2013 , 60, 657-717	1.9	2
89	Ultrasound-assisted single extraction tests for rapid assessment of metal extractability from soils by total reflection X-ray fluorescence. <i>Journal of Hazardous Materials</i> , 2013 , 260, 202-9	12.8	26
88	Miniaturized and green method for determination of chemical oxygen demand using UV-induced oxidation with hydrogen peroxide and single drop microextraction. <i>Mikrochimica Acta</i> , 2013 , 180, 1029-1036	5.8	10
87	Current trends in liquid-liquid and solid-liquid extraction for cosmetic analysis: a review. <i>Analytical Methods</i> , 2013 , 5, 323-340	3.2	43
86	Use of high-intensity sonication for pre-treatment of biological tissues prior to multielemental analysis by total reflection X-ray fluorescence spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012 , 67, 43-49	3.1	24
85	Ultrasound-assisted pretreatment of solid samples in the context of green analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 31, 50-60	14.6	104
84	Rapid screening of polycyclic aromatic hydrocarbons (PAHs) in waters by directly suspended droplet microextraction-microvolume fluorospectrometry. <i>Talanta</i> , 2012 , 89, 217-22	6.2	22
83	Simplified and miniaturized procedure based on ultrasound-assisted cytosol preparation for the determination of Cd and Cu bound to metallothioneins in mussel tissue by ICP-MS. <i>Talanta</i> , 2012 , 93, 111-6	6.2	10
82	Dispersive liquid-liquid microextraction combined with microvolume spectrophotometry to turn green the 5530 APHA standard method for determining phenols in water and wastewater. <i>Talanta</i> , 2012 , 98, 197-202	6.2	28
81	Fast screening of terpenes in fragrance-free cosmetics by fluorescence quenching on a fluorescein-bovine serum albumin probe confined in a drop. <i>Analytica Chimica Acta</i> , 2012 , 719, 61-7	6.6	10
80	Enzymatic single-drop microextraction for the assay of ethanol in alcohol-free cosmetics using microvolume fluorospectrometry detection. <i>Analytica Chimica Acta</i> , 2012 , 733, 28-33	6.6	20
79	Green chemistry in analytical atomic spectrometry: a review. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1831	3.7	65
78	Quantum dots confined in an organic drop as luminescent probes for detection of selenium by microfluorospectrometry after hydridation: study of the quenching mechanism and analytical performance. <i>Analytical Chemistry</i> , 2012 , 84, 4452-9	7.8	37
77	Quantitative Ultrasound-Assisted Extraction for Trace-Metal Determination: An Experiment for Analytical Chemistry. <i>Journal of Chemical Education</i> , 2011 , 88, 480-483	2.4	1
76	Quantum dot-based headspace single-drop microextraction technique for optical sensing of volatile species. <i>Analytical Chemistry</i> , 2011 , 83, 2388-93	7.8	41
75	Ion pair-based dispersive liquid-liquid microextraction for gold determination at ppb level in solid samples after ultrasound-assisted extraction and in waters by electrothermal-atomic absorption spectrometry. <i>Talanta</i> , 2011 , 84, 109-15	6.2	47
74	Directly suspended droplet microextraction in combination with microvolume UV-vis spectrophotometry for determination of phosphate. <i>Talanta</i> , 2011 , 85, 1100-4	6.2	31

73	Ion pair-based liquid-phase microextraction combined with cuvetteless UV-vis micro-spectrophotometry as a miniaturized assay for monitoring ammonia in waters. <i>Talanta</i> , 2011 , 85, 1448-52	6.2	10
72	Advances in miniaturized UV-Vis spectrometric systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1637-1648	14.6	43
71	Determination of triclosan by cuvetteless UV-vis micro-spectrophotometry following simultaneous ultrasound assisted emulsification-microextraction with derivatization: Use of a micellar-ionic liquid as extractant. <i>Microchemical Journal</i> , 2011 , 99, 246-251	4.8	32
70	Cold vapor-solid phase microextraction using amalgamation in different Pd-based substrates combined with direct thermal desorption in a modified absorption cell for the determination of Hg by atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011 , 66, 156-162	3.1	28
69	Assessment of ultrasound-assisted extraction as sample pre-treatment for the measurement of lead isotope ratios in marine biological tissues by multicollector inductively coupled plasma-mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011 , 66, 483-488	3.1	2
68	Liquid-phase microextraction with in-drop derivatization combined with microvolume fluorospectrometry for free and hydrolyzed formaldehyde determination in textile samples. <i>Analytica Chimica Acta</i> , 2011 , 687, 50-5	6.6	30
67	Ultrasound-assisted extraction of gold and silver from environmental samples using different extractants followed by electrothermal-atomic absorption spectrometry. <i>Microchemical Journal</i> , 2011 , 97, 93-100	4.8	37
66	Ultrasound-assisted extraction of antimony and cobalt from inorganic environmental samples using a cup-horn sonoreactor prior to their determination by electrothermal-atomic absorption spectrometry. <i>International Journal of Environmental Analytical Chemistry</i> , 2011 , 91, 1401-1411	1.8	4
65	Determination of iodate in waters by cuvetteless UV-vis micro-spectrophotometry after liquid-phase microextraction. <i>Talanta</i> , 2010 , 81, 625-9	6.2	35
64	Simultaneous ultrasound-assisted emulsification-derivatization as a simple and miniaturized sample preparation method for determination of nitrite in cosmetic samples by microvolume UV-vis spectrophotometry. <i>Talanta</i> , 2010 , 83, 386-90	6.2	12
63	A biogeochemical approach to understanding the accumulation patterns of trace elements in three species of dragonfly larvae: evaluation as biomonitors. <i>Journal of Environmental Monitoring</i> , 2010 , 12, 724-30		23
62	On-line UV photoreduction in a flow-injection/stopped-flow manifold for determination of mercury by cold vapour-atomic absorption spectrometry. <i>Analytical Methods</i> , 2010 , 2, 1798	3.2	12
61	Griess micro-assay for the determination of nitrite by combining fibre optics-based cuvetteless UV-vis micro-spectrophotometry with liquid-phase microextraction. <i>Analytica Chimica Acta</i> , 2010 , 668, 195-200	6.6	64
60	Colorimetric assay for determination of trimethylamine-nitrogen (TMA-N) in fish by combining headspace-single-drop microextraction and microvolume UV-vis spectrophotometry. <i>Food Chemistry</i> , 2010 , 119, 402-407	8.5	33
59	Liquid-phase microextraction techniques within the framework of green chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 617-628	14.6	176
58	Photochemistry-based sample treatments as greener approaches for trace-element analysis and speciation. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 681-691	14.6	48
57	Classification of cultivated mussels from Galicia (northwest Spain) with European Protected Designation of Origin using trace element fingerprint and chemometric analysis. <i>Analytica Chimica Acta</i> , 2010 , 664, 121-8	6.6	63
56	Liquid-phase microextraction approaches combined with atomic detection: a critical review. <i>Analytica Chimica Acta</i> , 2010 , 669, 1-16	6.6	95

55	Ultrasound-assisted emulsification microextraction with simultaneous derivatization coupled to fibre optics-based cuvetteless UV-vis micro-spectrophotometry for formaldehyde determination in cosmetic samples. <i>Analytica Chimica Acta</i> , 2010 , 674, 59-63	6.6	53
54	Evaluation of ultrasound-assisted extraction as sample pre-treatment for quantitative determination of rare earth elements in marine biological tissues by inductively coupled plasma-mass spectrometry. <i>Analytica Chimica Acta</i> , 2010 , 679, 49-55	6.6	30
53	Headspace single-drop microextraction with in situ stibine generation for the determination of antimony (III) and total antimony by electrothermal-atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2009 , 164, 77-83	5.8	43
52	Elemental fingerprinting of tumorous and adjacent non-tumorous tissues from patients with colorectal cancer using ICP-MS, ICP-OES and chemometric analysis. <i>BioMetals</i> , 2009 , 22, 863-75	3.4	34
51	Miniaturized preconcentration methods based on liquid-liquid extraction and their application in inorganic ultratrace analysis and speciation: A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009 , 64, 1-15	3.1	317
50	Analytical evaluation of a cup-horn sonoreactor used for ultrasound-assisted extraction of trace metals from troublesome matrices. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009 , 64, 874-883	3.1	26
49	Headspace single-drop microextraction coupled to microvolume UV-vis spectrophotometry for iodine determination. <i>Analytica Chimica Acta</i> , 2009 , 631, 223-8	6.6	50
48	Microvolume turbidimetry for rapid and sensitive determination of the acid labile sulfide fraction in waters after headspace single-drop microextraction with in situ generation of volatile hydrogen sulfide. <i>Analytica Chimica Acta</i> , 2009 , 647, 112-6	6.6	29
47	Multiple small volume microwave-assisted digestions using conventional equipment for multielemental analysis of human breast biopsies by inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2009 , 77, 1490-6	6.2	27
46	Speciation of mercury by ionic liquid-based single-drop microextraction combined with high-performance liquid chromatography-photodiode array detection. <i>Talanta</i> , 2009 , 78, 537-41	6.2	125
45	Ultrasound-assisted emulsification of cosmetic samples prior to elemental analysis by different atomic spectrometric techniques. <i>Talanta</i> , 2009 , 80, 109-16	6.2	30
44	Determination of total silver and silver species in coastal seawater by inductively-coupled plasma mass spectrometry after batch sorption experiments with Chelex-100 resin. <i>Chemical Speciation and Bioavailability</i> , 2008 , 20, 217-226		16
43	Immersed single-drop microextraction interfaced with sequential injection analysis for determination of Cr(VI) in natural waters by electrothermal-atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 498-503	3.1	49
42	Multielemental determination in breast cancerous and non-cancerous biopsies by inductively coupled plasma-mass spectrometry following small volume microwave-assisted digestion. <i>Analytica Chimica Acta</i> , 2008 , 622, 77-84	6.6	35
41	Mercury removal from contaminated water by ultrasound-promoted reduction/vaporization in a microscale reactor. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 212-6	8.9	19
40	Fast determination of arsenic, selenium, nickel and vanadium in fish and shellfish by electrothermal atomic absorption spectrometry following ultrasound-assisted extraction. <i>Food Chemistry</i> , 2008 , 106, 403-409	8.5	66
39	Greener analytical method for determination of thiomersal (sodium ethylmercurithiosalicylate) in ophthalmic solutions using sono-induced cold vapour generation-atomic absorption spectrometry after UV/H ₂ O ₂ advanced oxidation. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 569	3.7	26
38	Improved microwave-assisted wet digestion procedures for accurate Se determination in fish and shellfish by flow injection-hydride generation-atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2007 , 591, 225-30	6.6	17

37	Green method for ultrasensitive determination of Hg in natural waters by electrothermal-atomic absorption spectrometry following sono-induced cold vapor generation and Hg-atomizer trapping. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007 , 62, 69-75	3.1	33
36	Photolytic oxidation of As species for determination of total As (including the 'hidden' As fraction) in coastal seawater by hydride generation-atomic fluorescence spectrometry. <i>Talanta</i> , 2007 , 71, 51-5	6.2	7
35	On-line photoassisted vapour generation implemented in an automated flow-injection/stopped-flow manifold coupled to an atomic detector for determination of selenium. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 582-587	3.7	27
34	Hydride generation-headspace single-drop microextraction-electrothermal atomic absorption spectrometry method for determination of selenium in waters after photoassisted prereduction. <i>Talanta</i> , 2006 , 68, 1096-101	6.2	86
33	Ultrasound-assisted extraction technique for establishing selenium contents in breast cancer biopsies by Zeeman-electrothermal atomic absorption spectrometry using multi-injection. <i>Analytica Chimica Acta</i> , 2006 , 566, 29-36	6.6	7
32	Development of an ultrasound-assisted extraction method for biomonitoring of vanadium and nickel in the coastal environment under the influence of the Prestige fuel spill (North east Atlantic Ocean). <i>Analytica Chimica Acta</i> , 2006 , 577, 119-25	6.6	23
31	Ultrasound-promoted cold vapor generation in the presence of formic acid for determination of mercury by atomic absorption spectrometry. <i>Analytical Chemistry</i> , 2006 , 78, 6260-4	7.8	84
30	Ultrasonic Extraction/Ozonation Sequential Sample Treatment for the Determination of Arsenic in Environmental Certified Reference Materials by Hydride Generation/Atomic Fluorescence Spectrometry. <i>Spectroscopy Letters</i> , 2006 , 39, 713-725	1.1	8
29	Depth Profile Of Trace Elements In a Sediment Core Of a High-Altitude Lake Deposit At The Pyrenees, Spain. <i>Water, Air, and Soil Pollution</i> , 2006 , 172, 273-293	2.6	17
28	Determination of methylmercury by electrothermal atomic absorption spectrometry using headspace single-drop microextraction with in situ hydride generation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 145-150	3.1	62
27	Photoassisted vapor generation in the presence of organic acids for ultrasensitive determination of Se by electrothermal-atomic absorption spectrometry following headspace single-drop microextraction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005 , 60, 1556-1563	3.1	47
26	Speciation of the immediately mobilisable As(III), As(V), MMA and DMA in river sediments by high performance liquid chromatography/hydride generation/atomic fluorescence spectrometry following ultrasonic extraction. <i>Analytica Chimica Acta</i> , 2005 , 534, 121-128	6.6	33
25	Evaluation of distribution, mobility and binding behaviour of heavy metals in surficial sediments of Louro River (Galicia, Spain) using chemometric analysis: a case study. <i>Science of the Total Environment</i> , 2004 , 330, 115-29	10.2	181
24	Headspace sequestration of arsine onto a Pd(II)-containing aqueous drop as a preconcentration method for electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2004 , 59, 851-855	3.1	57
23	Development of fast thermal programs in electrothermal atomic absorption spectrometry using hot injection and removal of the ashing stage for determination of heavy metals in sequential extracts from sediments. <i>Analytica Chimica Acta</i> , 2004 , 508, 217-223	6.6	7
22	Direct coupling of solid phase microextraction and quartz tube-atomic absorption spectrometry for selective and sensitive determination of methylmercury in seafood: an assessment of chloride and hydride generation. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 250	3.7	27
21	Mild sample pretreatment procedures based on photolysis and sonolysis-promoted redox reactions as a new approach for determination of Se(IV), Se(VI) and Se(II) in model solutions by the hydride generation technique with atomic absorption and fluorescence detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 1379-1385	3.7	26
20	Evaluation of non-chromatographic approaches for speciation of extractable As(III) and As(V) in environmental solid samples by FI-HGAAS. <i>Talanta</i> , 2003 , 59, 525-534	6.2	24

19	Comparison of the standard SM&T sequential extraction method with small-scale ultrasound-assisted single extractions for metal partitioning in sediments. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 103-8	4.4	29
18	Ultrasonic extraction combined with fast furnace analysis as an improved methodology for total selenium determination in seafood by electrothermal-atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2002 , 452, 217-222	6.6	40
17	Comparison of conventional and fast thermal programme approaches for determination of total and extractable Cd in sediments by electrothermal atomic absorption spectrometry following sequential extraction. <i>Analytica Chimica Acta</i> , 2002 , 466, 303-309	6.6	4
16	Chemical sequential extraction for metal partitioning in environmental solid samples. <i>Journal of Environmental Monitoring</i> , 2002 , 4, 823-57		638
15	Evaluation of <i>Platanus occidentalis</i> and <i>Pinus sylvestris</i> as Bioindicators for Lead and Cadmium by Slurry Sampling-Electrothermal Atomic Absorption Spectrometry. <i>Journal of AOAC INTERNATIONAL</i> , 2002 , 85, 212-218	1.7	7
14	Determination of methylcyclopentadienyl-manganese tricarbonyl by solid phase microextraction-direct thermal desorption-quartz furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2001 , 56, 215-222	3.1	10
13	Operational speciation of thallium in environmental solid samples by electrothermal atomic absorption spectrometry according to the BCR sequential extraction scheme. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 1424-1428	3.7	14
12	Determination of Selenium in Marine Biological Tissues by Transverse Heated Electrothermal Atomic Absorption Spectrometry with Longitudinal Zeeman Background Correction and Automated Ultrasonic Slurry Sampling. <i>Journal of AOAC INTERNATIONAL</i> , 2001 , 84, 1921-1926	1.7	8
11	Total As in seafood as determined by transverse heated electrothermal atomic absorption spectrometry-longitudinal Zeeman background correction: An evaluation of automated ultrasonic slurry sampling, ultrasound-assisted extraction and microwave-assisted digestion methods. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 987-994	3.7	53
10	Determination of tetraethyllead by solid phase microextraction-thermal desorption-quartz furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 705-709	3.7	15
9	Application of microwave extraction for partitioning of heavy metals in sewage sludge. <i>Analytica Chimica Acta</i> , 1999 , 378, 201-210	6.6	70
8	Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge. <i>Analytica Chimica Acta</i> , 1999 , 381, 297-305	6.6	7
7	Comparison of digestion methods for determination of trace and minor metals in plant samples. <i>Journal of Agricultural and Food Chemistry</i> , 1999 , 47, 5072-7	5.7	36
6	Ultrasound-assisted extraction of lead from solid samples: a new perspective on the slurry-based sample preparation methods for electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1221-1226	3.7	43
5	Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound. <i>Analytica Chimica Acta</i> , 1998 , 360, 35-41	6.6	96
4	Screening of antimony in PVC by solid sampling-graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 1998 , 46, 1265-72	6.2	9
3	Analytical assessment of two sequential extraction schemes for metal partitioning in sewage sludges. <i>Analyst, The</i> , 1996 , 121, 1479-84	5	66
2	Use of the median in the direct determination of cadmium in solid samples by electrothermal atomic absorption spectrometry. <i>Analyst, The</i> , 1995 , 120, 2813	5	9

- 1 Direct Determination of Magnesium at the 1% Level in Solid Samples by Graphite Furnace Atomic Absorption Spectrometry.. *Analytical Sciences*, **1995**, 11, 651-656 1.7 8