Isela Lavilla

List of Publications by Citations

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	Chemical sequential extraction for metal partitioning in environmental solid samples. *Journal of Environmental Monitoring*, **2002**, 4, 823-57		638
143	Miniaturized preconcentration methods based on liquid–liquid extraction and their application in inorganic ultratrace analysis and speciation: A review. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2009**, 64, 1-15	3.1	317
142	Evaluation of distribution, mobility and binding behaviour of heavy metals in surficial sediments of Louro River (Galicia, Spain) using chemometric analysis: a case study. *Science of the Total Environment*, **2004**, 330, 115-29	10.2	181
141	Liquid-phase microextraction techniques within the framework of green chemistry. *TrAC - Trends in Analytical Chemistry*, **2010**, 29, 617-628	14.6	176
140	Speciation of mercury by ionic liquid-based single-drop microextraction combined with high-performance liquid chromatography-photodiode array detection. *Talanta*, **2009**, 78, 537-41	6.2	125
139	In situ building of a nanoprobe based on fluorescent carbon dots for methylmercury detection. *Analytical Chemistry*, **2014**, 86, 4536-43	7.8	109
138	Ultrasound-assisted pretreatment of solid samples in the context of green analytical chemistry. *TrAC - Trends in Analytical Chemistry*, **2012**, 31, 50-60	14.6	104
137	Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound. *Analytica Chimica Acta*, **1998**, 360, 35-41	6.6	96
136	Liquid-phase microextraction approaches combined with atomic detection: a critical review. *Analytica Chimica Acta*, **2010**, 669, 1-16	6.6	95
135	Hydride generation-headspace single-drop microextraction-electrothermal atomic absorption spectrometry method for determination of selenium in waters after photoassisted prereduction. *Talanta*, **2006**, 68, 1096-101	6.2	86
134	Ultrasound-promoted cold vapor generation in the presence of formic acid for determination of mercury by atomic absorption spectrometry. *Analytical Chemistry*, **2006**, 78, 6260-4	7.8	84
133	Sample pretreatment strategies for total reflection X-ray fluorescence analysis: A tutorial review. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2013**, 90, 23-54	3.1	80
132	Application of microwave extraction for partitioning of heavy metals in sewage sludge. *Analytica Chimica Acta*, **1999**, 378, 201-210	6.6	70
131	Fast determination of arsenic, selenium, nickel and vanadium in fish and shellfish by electrothermal atomic absorption spectrometry following ultrasound-assisted extraction. *Food Chemistry*, **2008**, 106, 403-409	8.5	66
130	Analytical assessment of two sequential extraction schemes for metal partitioning in sewage sludges. *Analyst, The*, **1996**, 121, 1479-84	5	66
129	Green chemistry in analytical atomic spectrometry: a review. *Journal of Analytical Atomic Spectrometry*, **2012**, 27, 1831	3.7	65
128	Natural deep eutectic solvents in combination with ultrasonic energy as a green approach for solubilisation of proteins: application to gluten determination by immunoassay. *Talanta*, **2017**, 162, 453-459	6.2	64

127	Griess micro-assay for the determination of nitrite by combining fibre optics-based cuvetteless UV-vis micro-spectrophotometry with liquid-phase microextraction. *Analytica Chimica Acta*, **2010**, 668, 195-200	6.6	64
126	Classification of cultivated mussels from Galicia (northwest Spain) with European Protected Designation of Origin using trace element fingerprint and chemometric analysis. *Analytica Chimica Acta*, **2010**, 664, 121-8	6.6	63
125	Determination of methylmercury by electrothermal atomic absorption spectrometry using headspace single-drop microextraction with in situ hydride generation. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2005**, 60, 145-150	3.1	62
124	An overview of recent advances in the application of quantum dots as luminescent probes to inorganic-trace analysis. *TrAC - Trends in Analytical Chemistry*, **2014**, 57, 64-72	14.6	60
123	Headspace sequestration of arsine onto a Pd(II)-containing aqueous drop as a preconcentration method for electrothermal atomic absorption spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2004**, 59, 851-855	3.1	57
122	An overview of sample preparation for the determination of parabens in cosmetics. *TrAC - Trends in Analytical Chemistry*, **2014**, 57, 34-46	14.6	56
121	Ultrasound-assisted emulsification microextraction with simultaneous derivatization coupled to fibre optics-based cuvetteless UV-vis micro-spectrophotometry for formaldehyde determination in cosmetic samples. *Analytica Chimica Acta*, **2010**, 674, 59-63	6.6	53
120	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. *Journal of Analytical Atomic Spectrometry*, **2008**, 15, 987-994	3.7	53
119	Headspace single-drop microextraction coupled to microvolume UV-vis spectrophotometry for iodine determination. *Analytica Chimica Acta*, **2009**, 631, 223-8	6.6	50
118	Immersed single-drop microextraction interfaced with sequential injection analysis for determination of Cr(VI) in natural waters by electrothermal-atomic absorption spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2008**, 63, 498-503	3.1	49
117	Greener derivatization in analytical chemistry. *TrAC - Trends in Analytical Chemistry*, **2014**, 61, 1-10	14.6	48
116	Photochemistry-based sample treatments as greener approaches for trace-element analysis and speciation. *TrAC - Trends in Analytical Chemistry*, **2010**, 29, 681-691	14.6	48
115	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. *Talanta*, **2011**, 84, 109-15	6.2	47
114	Photoassisted vapor generation in the presence of organic acids for ultrasensitive determination of Se by electrothermal-atomic absorption spectrometry following headspace single-drop microextraction. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2005**, 60, 1556-1563	3.1	47
113	Nanoparticle-enhanced liquid-phase microextraction. *TrAC - Trends in Analytical Chemistry*, **2015**, 68, 78-87	14.6	46
112	Current trends in liquid–liquid and solid–liquid extraction for cosmetic analysis: a review. *Analytical Methods*, **2013**, 5, 323-340	3.2	43
111	Advances in miniaturized UV-Vis spectrometric systems. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 1637-1648	14.6	43
110	Headspace single-drop microextraction with in situ stibine generation for the determination of antimony (III) and total antimony by electrothermal-atomic absorption spectrometry. *Mikrochimica Acta*, **2009**, 164, 77-83	5.8	43

109	Ultrasound-assisted extraction of lead from solid samples: a new perspective on the slurry-based sample preparation methods for electrothermal atomic absorption spectrometry. *Journal of Analytical Atomic Spectrometry*, **1999**, 14, 1221-1226	3.7	43
108	Paper-based analytical device for instrumental-free detection of thiocyanate in saliva as a biomarker of tobacco smoke exposure. *Talanta*, **2016**, 147, 390-6	6.2	42
107	Fast method for multielemental analysis of plants and discrimination according to the anatomical part by total reflection X-ray fluorescence spectrometry. *Food Chemistry*, **2013**, 138, 234-41	8.5	42
106	Quantum dot-based headspace single-drop microextraction technique for optical sensing of volatile species. *Analytical Chemistry*, **2011**, 83, 2388-93	7.8	41
105	Ultrasonic extraction combined with fast furnace analysis as an improved methodology for total selenium determination in seafood by electrothermal-atomic absorption spectrometry. *Analytica Chimica Acta*, **2002**, 452, 217-222	6.6	40
104	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. *Analytical Chemistry*, **2012**, 84, 4452-9	7.8	37
103	Ultrasound-assisted extraction of gold and silver from environmental samples using different extractants followed by electrothermal-atomic absorption spectrometry. *Microchemical Journal*, **2011**, 97, 93-100	4.8	37
102	Liquid-phase microextraction combined with graphite furnace atomic absorption spectrometry: A review. *Analytica Chimica Acta*, **2016**, 936, 12-39	6.6	37
101	Comparison of digestion methods for determination of trace and minor metals in plant samples. *Journal of Agricultural and Food Chemistry*, **1999**, 47, 5072-7	5.7	36
100	Determination of iodate in waters by cuvetteless UV-vis micro-spectrophotometry after liquid-phase microextraction. *Talanta*, **2010**, 81, 625-9	6.2	35
99	Multielemental determination in breast cancerous and non-cancerous biopsies by inductively coupled plasma-mass spectrometry following small volume microwave-assisted digestion. *Analytica Chimica Acta*, **2008**, 622, 77-84	6.6	35
98	Elemental fingerprinting of tumorous and adjacent non-tumorous tissues from patients with colorectal cancer using ICP-MS, ICP-OES and chemometric analysis. *BioMetals*, **2009**, 22, 863-75	3.4	34
97	Test for arsenic speciation in waters based on a paper-based analytical device with scanometric detection. *Analytica Chimica Acta*, **2018**, 1011, 1-10	6.6	33
96	Colorimetric assay for determination of trimethylamine-nitrogen (TMA-N) in fish by combining headspace-single-drop microextraction and microvolume UV–vis spectrophotometry. *Food Chemistry*, **2010**, 119, 402-407	8.5	33
95	Green method for ultrasensitive determination of Hg in natural waters by electrothermal-atomic absorption spectrometry following sono-induced cold vapor generation and in-atomizer trapping. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2007**, 62, 69-75	3.1	33
94	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. *Analytica Chimica Acta*, **2005**, 534, 121-128	6.6	33
93	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. *Microchemical Journal*, **2011**, 99, 246-251	4.8	32
92	Directly suspended droplet microextraction in combination with microvolume UV-vis spectrophotometry for determination of phosphate. *Talanta*, **2011**, 85, 1100-4	6.2	31

91	Ultrasound-assisted emulsification of cosmetic samples prior to elemental analysis by different atomic spectrometric techniques. *Talanta*, **2009**, 80, 109-16	6.2	30
90	Liquid-phase microextraction with in-drop derivatization combined with microvolume fluorospectrometry for free and hydrolyzed formaldehyde determination in textile samples. *Analytica Chimica Acta*, **2011**, 687, 50-5	6.6	30
89	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. *Analytica Chimica Acta*, **2010**, 679, 49-55	6.6	30
88	Nanoparticle-assisted chemical speciation of trace elements. *TrAC - Trends in Analytical Chemistry*, **2016**, 77, 109-121	14.6	29
87	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. *Analytica Chimica Acta*, **2009**, 647, 112-6	6.6	29
86	Comparison of the standard SM&T sequential extraction method with small-scale ultrasound-assisted single extractions for metal partitioning in sediments. *Analytical and Bioanalytical Chemistry*, **2002**, 374, 103-8	4.4	29
85	Dispersive liquid-liquid microextraction combined with microvolume spectrophotometry to turn green the 5530 APHA standard method for determining phenols in water and wastewater. *Talanta*, **2012**, 98, 197-202	6.2	28
84	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2011**, 66, 156-162	3.1	28
83	Multiple small volume microwave-assisted digestions using conventional equipment for multielemental analysis of human breast biopsies by inductively coupled plasma optical emission spectrometry. *Talanta*, **2009**, 77, 1490-6	6.2	27
82	On-line photoassisted vapour generation implemented in an automated flow-injection/stopped-flow manifold coupled to an atomic detector for determination of selenium. *Journal of Analytical Atomic Spectrometry*, **2006**, 21, 582-587	3.7	27
81	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. *Journal of Analytical Atomic Spectrometry*, **2004**, 19, 250	3.7	27
80	Turn□n fluorescent sensor for the detection of periodate anion following photochemical synthesis of nitrogen and sulphur co□oped carbon dots from vegetables. *Sensors and Actuators B: Chemical*, **2019**, 280, 290-297	8.5	27
79	Ultrasound-assisted single extraction tests for rapid assessment of metal extractability from soils by total reflection X-ray fluorescence. *Journal of Hazardous Materials*, **2013**, 260, 202-9	12.8	26
78	Analytical evaluation of a cup-horn sonoreactor used for ultrasound-assisted extraction of trace metals from troublesome matrices. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2009**, 64, 874-883	3.1	26
77	Greener analytical method for determination of thiomersal (sodium ethylmercurithiosalicylate) in ophthalmic solutions using sono-induced cold vapour generation-atomic absorption spectrometry after UV/H2O2 advanced oxidation. *Journal of Analytical Atomic Spectrometry*, **2007**, 22, 569	3.7	26
76	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(□) in model solutions by the hydride generation technique with atomic absorption and fluorescence detection. *Journal of Analytical*	3.7	26
75	Use of high-intensity sonication for pre-treatment of biological tissues prior to multielemental analysis by total reflection X-ray fluorescence spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2012**, 67, 43-49	3.1	24
74	Evaluation of non-chromatographic approaches for speciation of extractable As(III) and As(V) in environmental solid samples by FI-HGAAS. *Talanta*, **2003**, 59, 525-534	6.2	24

73	A biogeochemical approach to understanding the accumulation patterns of trace elements in three species of dragonfly larvae: evaluation as biomonitors. *Journal of Environmental Monitoring*, **2010**, 12, 724-30		23
72	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). *Analytica Chimica Acta*, **2006**, 577, 119-25	6.6	23
71	Rapid screening of polycyclic aromatic hydrocarbons (PAHs) in waters by directly suspended droplet microextraction-microvolume fluorospectrometry. *Talanta*, **2012**, 89, 217-22	6.2	22
70	Headspace single-drop microextraction coupled with microvolume fluorospectrometry for highly sensitive determination of bromide. *Talanta*, **2017**, 170, 9-14	6.2	21
69	In situ ultrasound-assisted synthesis of Fe3O4 nanoparticles with simultaneous ion co-precipitation for multielemental analysis of natural waters by total reflection X-ray fluorescence spectrometry. *Journal of Analytical Atomic Spectrometry*, **2013**, 28, 923	3.7	21
68	In situ photochemical synthesis of fluorescent carbon dots for optical sensing of hydrogen peroxide and antioxidants. *Talanta*, **2015**, 144, 1308-15	6.2	20
67	Enzymatic single-drop microextraction for the assay of ethanol in alcohol-free cosmetics using microvolume fluorospectrometry detection. *Analytica Chimica Acta*, **2012**, 733, 28-33	6.6	20
66	Coumarins as turn on/off fluorescent probes for detection of residual acetone in cosmetics following headspace single-drop microextraction. *Talanta*, **2014**, 129, 113-8	6.2	19
65	Mercury removal from contaminated water by ultrasound-promoted reduction/vaporization in a microscale reactor. *Ultrasonics Sonochemistry*, **2008**, 15, 212-6	8.9	19
64	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2019**, 152, 14-24	3.1	19
63	Graphene membranes as novel preconcentration platforms for chromium speciation by total reflection X-ray fluorescence. *RSC Advances*, **2016**, 6, 669-676	3.7	18
62	Silver nanoparticle-assisted preconcentration of selenium and mercury on quartz reflectors for total reflection X-ray fluorescence analysis. *Journal of Analytical Atomic Spectrometry*, **2014**, 29, 696	3.7	18
61	Solid-state chemiluminescence assay for ultrasensitive detection of antimony using on-vial immobilization of CdSe quantum dots combined with liquid-liquid-liquid microextraction. *Analytica Chimica Acta*, **2013**, 788, 114-21	6.6	17
60	Improved microwave-assisted wet digestion procedures for accurate Se determination in fish and shellfish by flow injection-hydride generation-atomic absorption spectrometry. *Analytica Chimica Acta*, **2007**, 591, 225-30	6.6	17
59	Depth Profile Of Trace Elements In a Sediment Core Of a High-Altitude Lake Deposit At The Pyrenees, Spain. *Water, Air, and Soil Pollution*, **2006**, 172, 273-293	2.6	17
58	Determination of total silver and silver species in coastal seawater by inductively-coupled plasma mass spectrometry after batch sorption experiments with Chelex-100 resin. *Chemical Speciation and Bioavailability*, **2008**, 20, 217-226		16
57	In situ growth of Fe3O4 nanoparticles for dispersive magnetic micro-solid phase extraction of cadmium followed by ETAAS detection. *Analytical Methods*, **2015**, 7, 1154-1160	3.2	15
56	Determination of tetraethyllead by solid phase microextraction–thermal desorption–quartz furnace atomic absorption spectrometry. *Journal of Analytical Atomic Spectrometry*, **2000**, 15, 705-709	3.7	15

55	Ultrasensitive, simple and solvent-free micro-assay for determining sulphite preservatives (E220-228) in foods by HS-SDME and UV-vis micro-spectrophotometry. *Analytical and Bioanalytical Chemistry*, **2014**, 406, 2133-40	4.4	14
54	Unmodified gold nanoparticles for in-drop plasmonic-based sensing of iodide. *Sensors and Actuators B: Chemical*, **2017**, 242, 940-948	8.5	14
53	Operational speciation of thallium in environmental solid samples by electrothermal atomic absorption spectrometry according to the BCR sequential extraction scheme. *Journal of Analytical Atomic Spectrometry*, **2001**, 16, 1424-1428	3.7	14
52	Room temperature trapping of stibine and bismuthine onto quartz substrates coated with nanostructured palladium for total reflection X-ray fluorescence analysis. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2015**, 107, 125-131	3.1	12
51	Facile preparation of an immobilized surfactant-free palladium nanocatalyst for metal hydride trapping: a novel sensing platform for TXRF analysis. *Nanoscale*, **2015**, 7, 1994-2002	7.7	12
50	Fluorescent poly(vinylpyrrolidone)-supported copper nanoclusters in miniaturized analytical systems for iodine sensing. *Sensors and Actuators B: Chemical*, **2019**, 299, 126979	8.5	12
49	Simultaneous ultrasound-assisted emulsification-derivatization as a simple and miniaturized sample preparation method for determination of nitrite in cosmetic samples by microvolume UV-vis spectrophotomety. *Talanta*, **2010**, 83, 386-90	6.2	12
48	On-line UV photoreduction in a flow-injection/stopped-flow manifold for determination of mercury by cold vapour-atomic absorption spectrometry. *Analytical Methods*, **2010**, 2, 1798	3.2	12
47	A paper-based colorimetric assay with non-instrumental detection for determination of boron in water samples. *Talanta*, **2020**, 208, 120365	6.2	12
46	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2017**, 131, 40-47	3.1	11
45	Ratiometric detection of total bromine in E-waste polymers by colloidal gold-based headspace single-drop microextraction and microvolume spectrophotometry. *Sensors and Actuators B: Chemical*, **2018**, 261, 481-488	8.5	11
44	Nanomaterials for the detection of halides and halogen oxyanions by colorimetric and luminescent techniques: A critical overview. *TrAC - Trends in Analytical Chemistry*, **2020**, 125, 115837	14.6	10
43	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. *Mikrochimica Acta*, **2016**, 183, 141-148	5.8	10
42	Solid-phase extraction of Hg(II) using cellulose filters modified with silver nanoparticles followed by pyrolysis and detection by a direct mercury analyzer. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2019**, 161, 105697	3.1	10
41	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. *Talanta*, **2012**, 93, 111-6	6.2	10
40	Fast screening of terpenes in fragrance-free cosmetics by fluorescence quenching on a fluorescein-bovine serum albumin probe confined in a drop. *Analytica Chimica Acta*, **2012**, 719, 61-7	6.6	10
39	Miniaturized and green method for determination of chemical oxygen demand using UV-induced oxidation with hydrogen peroxide and single drop microextraction. *Mikrochimica Acta*, **2013**, 180, 1029-1036	5.8	10
38	Ion pair-based liquid-phase microextraction combined with cuvetteless UV-vis micro-spectrophotometry as a miniaturized assay for monitoring ammonia in waters. *Talanta*, **2011**, 85, 1448-52	6.2	10

37	Determination of methylcyclopentadienyl-manganese tricarbonyl by solid phase microextraction-direct thermal desorption-quartz furnace atomic absorption spectrometry. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2001**, 56, 215-222	3.1	10
36	Speciation of gold nanoparticles and total gold in natural waters: A novel approach based on naked magnetite nanoparticles in combination with ascorbic acid. *Talanta*, **2019**, 193, 176-183	6.2	10
35	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2019**, 158, 105631	3.1	9
34	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. *Talanta*, **2019**, 199, 449-456	6.2	9
33	Headspace thin-film microextraction onto graphene membranes for specific detection of methyl(cyclopentadienyl)-tricarbonyl manganese in water samples by total reflection X-ray fluorescence. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2016**, 126, 65-70	3.1	9
32	Screening of antimony in PVC by solid sampling-graphite furnace atomic absorption spectrometry. *Talanta*, **1998**, 46, 1265-72	6.2	9
31	Use of the median in the direct determination of cadmium in solid samples by electrothermal atomic absorption spectrometry. *Analyst, The*, **1995**, 120, 2813	5	9
30	Ultrasonic Extraction–Ozonation Sequential Sample Treatment for the Determination of Arsenic in Environmental Certified Reference Materials by Hydride Generation–Atomic Fluorescence Spectrometry. *Spectroscopy Letters*, **2006**, 39, 713-725	1.1	8
29	Determination of Selenium in Marine Biological Tissues by Transverse Heated Electrothermal Atomic Absorption Spectrometry with Longitudinal Zeeman Background Correction and Automated Ultrasonic Slurry Sampling. *Journal of AOAC INTERNATIONAL*, **2001**, 84, 1921-1926	1.7	8
28	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
27	A paper-based gas sensor for simultaneous noninstrumental colorimetric detection of nitrite and sulfide in waters. *Journal of Separation Science*, **2020**, 43, 1908-1914	3.4	7
26	A critical assessment of ultrasound-assisted extraction as sample pre-treatment for fast determination of multielements in seafood using inductively coupled plasma mass spectrometry. *Microchemical Journal*, **2017**, 130, 458-464	4.8	7
25	Photolytic oxidation of As species for determination of total As (including the 'hidden' As fraction) in coastal seawater by hydride generation-atomic fluorescence spectrometry. *Talanta*, **2007**, 71, 51-5	6.2	7
24	Ultrasound-assisted extraction technique for establishing selenium contents in breast cancer biopsies by Zeeman-electrothermal atomic absorption spectrometry using multi-injection. *Analytica Chimica Acta*, **2006**, 566, 29-36	6.6	7
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. *Analytica Chimica Acta*, **2004**, 508, 217-223	6.6	7
22	Evaluation of Platanus occidentalis and Pinus sylvestris as Bioindicators for Lead and Cadmium by Slurry Sampling-Electrothermal Atomic Absorption Spectrometry. *Journal of AOAC INTERNATIONAL* , **2002**, 85, 212-218	1.7	7
21	Use of flow-injection sample-to-standard addition methods for quantification of metals leached by selective chemical extraction from sewage sludge. *Analytica Chimica Acta*, **1999**, 381, 297-305	6.6	7
20	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. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 1705-1712	3.7	6

19	Gold nanorods for in-drop colorimetric determination of thiomersal after photochemical decomposition. *Mikrochimica Acta*, **2018**, 185, 221	5.8	6
18	A Solvent Microextraction Approach for Environmental Analysis: Colorimetric Assay for Phosphorus Determination in Natural Waters. *Journal of Chemical Education*, **2014**, 91, 586-589	2.4	6
17	Nanomaterial-Integrated Cellulose Platforms for Optical Sensing of Trace Metals and Anionic Species in the Environment. *Sensors*, **2021**, 21,	3.8	6
16	Luminescent assays based on carbon dots for inorganic trace analysis. *Reviews in Analytical Chemistry*, **2015**, 34,	2.3	5
15	Simultaneous ultrasound-assisted iodide oxidation and liquid-liquid microextraction for rapid quality control of iodized salts by UV□is micro-spectrophotometry. *Microchemical Journal*, **2017**, 133, 577-582	4.8	4
14	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. *International Journal of Environmental Analytical Chemistry*, **2011**, 91, 1401-1411	1.8	4
13	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. *Analytica Chimica Acta*, **2002**, 466, 303-309	6.6	4
12	Ultrasound-assisted dispersive micro-solid phase extraction of Pb(II) in water samples with in situ synthesis of magnetic Fe3O4-PbS nanocomposites followed by electrothermal atomic absorption spectrometry determination. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2022**, 188, 106349	3.1	3
11	Nanoparticle-assisted stabilization of metal species as an alternative to conventional approaches for avoiding volatilization errors in total reflection X-ray fluorescence: A review. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2020**, 168, 105843	3.1	3
10	Assessing citric acid-derived luminescent probes for pH and ammonia sensing: A comprehensive experimental and theoretical study. *Analytica Chimica Acta*, **2021**, 1186, 339125	6.6	3
9	Ultrasound Extractions ? **2018**,		2
8	Authentication of Fishery Products. *Comprehensive Analytical Chemistry*, **2013**, 60, 657-717	1.9	2
7	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2011**, 66, 483-488	3.1	2
6	Paper-Based Analytical Devices for Colorimetric and Luminescent Detection of Mercury in Waters: An Overview. *Sensors*, **2021**, 21,	3.8	2
5	Main Chemical Contaminants in Cosmetics: Regulatory Aspects and Analytical Methods **2018**, 331-383		1
4	Quantitative Ultrasound-Assisted Extraction for Trace-Metal Determination: An Experiment for Analytical Chemistry. *Journal of Chemical Education*, **2011**, 88, 480-483	2.4	1
3	Waterproof Cellulose-Based Substrates for In-Drop Plasmonic Colorimetric Sensing of Volatiles: Application to Acid-Labile Sulfide Determination in Waters.. *ACS Sensors*, **2022**,	9.2	1
2	Bromine speciation by a paper-based sensor integrated with a citric acid/cysteamine fluorescent probe and smartphone detection. *Sensors and Actuators B: Chemical*, **2022**, 358, 131499	8.5	0

1	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. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2022**, 189, 106373	3.1	0