

Carlos Bendicho

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6466585/publications.pdf>

Version: 2024-02-01

188
papers

7,798
citations

47006

47
h-index

69250

77
g-index

189
all docs

189
docs citations

189
times ranked

6220
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemical sequential extraction for metal partitioning in environmental solid samples.. Journal of Environmental Monitoring, 2002, 4, 823-857.	2.1	763
2	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.	2.9	359
3	Solid sampling in electrothermal atomic absorption spectrometry using commercial atomizers. A review. Journal of Analytical Atomic Spectrometry, 1991, 6, 353.	3.0	228
4	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, 115-129.	8.0	209
5	Liquid-phase microextraction techniques within the framework of green chemistry. TrAC - Trends in Analytical Chemistry, 2010, 29, 617-628.	11.4	190
6	Comparison of ultrasound-assisted extraction and microwave-assisted digestion for determination of magnesium, manganese and zinc in plant samples by flame atomic absorption spectrometry. Talanta, 2000, 53, 433-441.	5.5	167
7	Speciation of mercury by ionic liquid-based single-drop microextraction combined with high-performance liquid chromatography-photodiode array detection. Talanta, 2009, 78, 537-541.	5.5	140
8	In Situ Building of a Nanoprobe Based on Fluorescent Carbon Dots for Methylmercury Detection. Analytical Chemistry, 2014, 86, 4536-4543.	6.5	132
9	Ultrasound-assisted pretreatment of solid samples in the context of green analytical chemistry. TrAC - Trends in Analytical Chemistry, 2012, 31, 50-60.	11.4	119
10	Speeding up of a three-stage sequential extraction method for metal speciation using focused ultrasound. Analytica Chimica Acta, 1998, 360, 35-41.	5.4	113
11	Sample pretreatment strategies for total reflection X-ray fluorescence analysis: A tutorial review. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 90, 23-54.	2.9	107
12	Hydride generation-headspace single-drop microextraction-electrothermal atomic absorption spectrometry method for determination of selenium in waters after photoassisted pre-reduction. Talanta, 2006, 68, 1096-1101.	5.5	99
13	Liquid-phase microextraction approaches combined with atomic detection: A critical review. Analytica Chimica Acta, 2010, 669, 1-16.	5.4	98
14	Ultrasound-Promoted Cold Vapor Generation in the Presence of Formic Acid for Determination of Mercury by Atomic Absorption Spectrometry. Analytical Chemistry, 2006, 78, 6260-6264.	6.5	97
15	Analytical assessment of two sequential extraction schemes for metal partitioning in sewage sludges. Analyst, The, 1996, 121, 1479-1484.	3.5	86
16	Application of microwave extraction for partitioning of heavy metals in sewage sludge. Analytica Chimica Acta, 1999, 378, 201-210.	5.4	86
17	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.	5.5	82
18	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, 121-128.	5.4	78

#	ARTICLE	IF	CITATIONS
19	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.	5.4	76
20	Ultrasound-assisted extraction for mercury speciation by the flow injection-cold vapor technique. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 263-268.	3.0	75
21	Green chemistry in analytical atomic spectrometry: a review. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1831.	3.0	74
22	Room Temperature Sonolysis-Based Advanced Oxidation Process for Degradation of Organomercurials: Application to Determination of Inorganic and Total Mercury in Waters by Flow Injection-Cold Vapor Atomic Absorption Spectrometry. <i>Analytical Chemistry</i> , 2000, 72, 4979-4984.	6.5	71
23	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.	8.2	71
24	An overview of sample preparation for the determination of parabens in cosmetics. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 57, 34-46.	11.4	67
25	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.	2.9	65
26	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.	11.4	65
27	On-line high-performance liquid-chromatographic separation and cold vapor atomic absorption spectrometric determination of methylmercury and inorganic mercury. <i>Talanta</i> , 1999, 48, 477-484.	5.5	63
28	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.	2.9	62
29	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.	3.0	61
30	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.	5.4	59
31	Greener derivatization in analytical chemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2014, 61, 1-10.	11.4	58
32	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.	2.9	56
33	Optimization of a single-drop microextraction method for multielemental determination by electrothermal vaporization inductively coupled plasma mass spectrometry following in situ vapor generation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 208-214.	2.9	56
34	Headspace single-drop microextraction coupled to microvolume UV-Vis spectrophotometry for iodine determination. <i>Analytica Chimica Acta</i> , 2009, 631, 223-228.	5.4	56
35	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.	3.0	55
36	Advances in miniaturized UV-Vis spectrometric systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1637-1648.	11.4	55

#	ARTICLE	IF	CITATIONS
37	The influence of pyrolysis and matrix modifiers for analysis of glass materials by GFAAS using slurry sample introduction. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1990, 45, 679-693.	2.9	54
38	Photochemistry-based sample treatments as greener approaches for trace-element analysis and speciation. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 681-691.	11.4	54
39	Ultrasonic Extraction Followed by Sonolysis and Ozonolysis as a Sample Pretreatment Method for Determination of Reactive Arsenic toward Sodium Tetrahydroborate by Flow Injection-Hydride Generation AAS. <i>Analytical Chemistry</i> , 2001, 73, 3732-3736.	6.5	53
40	Current trends in liquid-liquid and solid-liquid extraction for cosmetic analysis: a review. <i>Analytical Methods</i> , 2013, 5, 323-340.	2.7	53
41	Paper-based analytical device for instrumental-free detection of thiocyanate in saliva as a biomarker of tobacco smoke exposure. <i>Talanta</i> , 2016, 147, 390-396.	5.5	53
42	Ultrasound-assisted extraction of cadmium from slurried biological samples for electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 1285-1290.	3.0	51
43	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.	2.9	51
44	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, 109-115.	5.5	50
45	Nanoparticle-enhanced liquid-phase microextraction. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 68, 78-87.	11.4	50
46	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.	5.4	50
47	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, 863-875.	4.1	49
48	Miniaturized analytical methods for determination of environmental contaminants of emerging concern – A review. <i>Analytica Chimica Acta</i> , 2021, 1158, 238108.	5.4	49
49	Solid-liquid extraction of copper from slurried samples using high intensity probe sonication for electrothermal atomic absorption spectrometry. <i>Talanta</i> , 1999, 50, 905-911.	5.5	47
50	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, 234-241.	8.2	47
51	Liquid-phase microextraction combined with graphite furnace atomic absorption spectrometry: A review. <i>Analytica Chimica Acta</i> , 2016, 936, 12-39.	5.4	47
52	Quantum Dot-Based Headspace Single-Drop Microextraction Technique for Optical Sensing of Volatile Species. <i>Analytical Chemistry</i> , 2011, 83, 2388-2393.	6.5	46
53	Determination of cadmium and lead in mussels by electrothermal atomic absorption spectrometry using an ultrasound-assisted extraction method optimized by factorial design. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 363, 283-288.	1.5	45
54	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.	5.4	45

#	ARTICLE	IF	CITATIONS
55	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.	8.2	45
56	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.	5.4	43
57	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.	5.0	43
58	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.	7.8	43
59	Comparison between conventional and ultrasound accelerated Tessier sequential extraction schemes for metal fractionation in sewage sludge. <i>Fresenius' Journal of Analytical Chemistry</i> , 1999, 363, 667-672.	1.5	42
60	Comparison of Digestion Methods for Determination of Trace and Minor Metals in Plant Samples. <i>Journal of Agricultural and Food Chemistry</i> , 1999, 47, 5072-5077.	5.2	42
61	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.	4.5	41
62	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, 4452-4459.	6.5	41
63	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.	5.4	40
64	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.	4.5	39
65	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, 1490-1496.	5.5	38
66	Fundamentals of Ultrasound-Assisted Extraction. , 2017, , 291-316.		38
67	Metal extraction by hydrofluoric acid from slurries of glass materials in graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1990, 45, 695-710.	2.9	36
68	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™. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 69-75.	2.9	35
69	Ultrasound-assisted emulsification of cosmetic samples prior to elemental analysis by different atomic spectrometric techniques. <i>Talanta</i> , 2009, 80, 109-116.	5.5	35
70	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.	5.4	35
71	Determination of iodate in waters by cuvetteless UV-vis micro-spectrophotometry after liquid-phase microextraction. <i>Talanta</i> , 2010, 81, 625-629.	5.5	35
72	Selective Reduction Method for Separate Determination of Inorganic and Total Mercury in Mussel Tissue by Flow-Injection Cold Vapor Technique. <i>Ecotoxicology and Environmental Safety</i> , 1999, 42, 245-252.	6.0	34

#	ARTICLE	IF	CITATIONS
73	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.	3.0	34
74	Directly suspended droplet microextraction in combination with microvolume UV-vis spectrophotometry for determination of phosphate. <i>Talanta</i> , 2011, 85, 1100-1104.	5.5	34
75	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.	5.5	34
76	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.	2.9	33
77	Slurry sampling combined with ultrasonic pretreatment for total mercury determination in samples containing inorganic and methylmercury by flow injection-cold vapor-atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1907-1912.	3.0	32
78	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, 103-108.	3.7	32
79	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(IV) 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.	3.0	32
80	UV reduction with ultrasound-assisted gas-liquid separation for the determination of mercury in biotissues by atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 1026.	3.0	32
81	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, 112-116.	5.4	32
82	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, 50-55.	5.4	32
83	Nanoparticle-assisted chemical speciation of trace elements. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 77, 109-121.	11.4	32
84	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.	2.9	31
85	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.	3.0	30
86	Optimization of digestion methods for sewage sludge using the Plackett-Burman saturated design. <i>Fresenius' Journal of Analytical Chemistry</i> , 1998, 361, 164-167.	1.5	29
87	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.	3.0	29
88	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, 202-209.	12.4	29
89	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.	5.5	28
90	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.	2.9	27

#	ARTICLE	IF	CITATIONS
91	Determination of total and inorganic mercury in biological and environmental samples with on-line oxidation coupled to flow injection-cold vapor atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 1129-1139.	2.9	26
92	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.	2.9	26
93	Ultrasound-assisted solubilization of trace and minor metals from plant tissue using ethylenediaminetetraacetic acid in alkaline medium. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 451-456.	1.5	25
94	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.	5.4	25
95	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.	3.0	24
96	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.	2.1	24
97	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.	3.0	24
98	Coumarins as turn on/off fluorescent probes for detection of residual acetone in cosmetics following headspace single-drop microextraction. <i>Talanta</i> , 2014, 129, 113-118.	5.5	24
99	Headspace single-drop microextraction coupled with microvolume fluorospectrometry for highly sensitive determination of bromide. <i>Talanta</i> , 2017, 170, 9-14.	5.5	24
100	Graphene-based nanocomposites in analytical extraction processes. <i>TrAC - Trends in Analytical Chemistry</i> , 2021, 142, 116303.	11.4	24
101	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, 119-125.	5.4	23
102	Headspace single drop microextraction of methylcyclopentadienyl-manganese tricarbonyl from water samples followed by gas chromatography-mass spectrometry. <i>Talanta</i> , 2007, 74, 47-51.	5.5	23
103	In situ photochemical synthesis of fluorescent carbon dots for optical sensing of hydrogen peroxide and antioxidants. <i>Talanta</i> , 2015, 144, 1308-1315.	5.5	23
104	Fluorescent poly(vinylpyrrolidone)-supported copper nanoclusters in miniaturized analytical systems for iodine sensing. <i>Sensors and Actuators B: Chemical</i> , 2019, 299, 126979.	7.8	23
105	A paper-based colorimetric assay with non-instrumental detection for determination of boron in water samples. <i>Talanta</i> , 2020, 208, 120365.	5.5	23
106	Use of Ultrasonic Energy for Shortening the Sequential Extraction of Metals from River Sediments. <i>International Journal of Environmental Analytical Chemistry</i> , 1999, 73, 79-92.	3.3	22
107	Rapid screening of polycyclic aromatic hydrocarbons (PAHs) in waters by directly suspended droplet microextraction-microvolume fluorospectrometry. <i>Talanta</i> , 2012, 89, 217-222.	5.5	22
108	Determination of boron in waters by using methyl borate generation and flame atomic-emission spectrometry. <i>Analyst, The</i> , 1985, 110, 1435.	3.5	21

#	ARTICLE	IF	CITATIONS
109	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.	2.4	20
110	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, 225-230.	5.4	20
111	Mercury removal from contaminated water by ultrasound-promoted reduction/vaporization in a microscale reactor. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 212-216.	8.2	20
112	Ultrasensitive, simple and solvent-free micro-assay for determining sulphite preservatives (E220) in foods by HS-SDME and UV-vis micro-spectrophotometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2133-2140.	3.7	20
113	Covalent organic framework as adsorbent for ultrasound-assisted dispersive (micro)solid phase extraction of polycyclic synthetic fragrances from seawater followed by fluorescent determination. <i>Analytica Chimica Acta</i> , 2022, 1191, 339293.	5.4	20
114	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.	2.0	19
115	Solid-state chemiluminescence assay for ultrasensitive detection of antimony using on-vial immobilization of CdSe quantum dots combined with liquid-liquid microextraction. <i>Analytica Chimica Acta</i> , 2013, 788, 114-121.	5.4	19
116	Graphene membranes as novel preconcentration platforms for chromium speciation by total reflection X-ray fluorescence. <i>RSC Advances</i> , 2016, 6, 669-676.	3.6	19
117	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.	3.0	18
118	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.	2.7	18
119	Effect of matrix components on chromium atomization processes in graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1988, 43, 263-271.	2.9	17
120	Preconcentration of lead, cadmium and zinc on silica gel loaded with diethyldithiocarbamate prior to their determination by flame-atomic absorption spectrometry. <i>Fresenius' Journal of Analytical Chemistry</i> , 1995, 351, 798-799.	1.5	17
121	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.	3.0	17
122	Land-ocean contributions of arsenic through a river-estuary-ria system (SW Europe) under the influence of arsenopyrite deposits in the fluvial basin. <i>Science of the Total Environment</i> , 2011, 412-413, 304-314.	8.0	17
123	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.	2.9	17
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.	7.8	17
125	Determination of Copper in Mineral Waters from Galicia, Spain, by Flame Atomic Absorption Spectrometry Using Preconcentration with Diethyldithiocarbamate Loaded on Silica Gel. <i>Microchemical Journal</i> , 1997, 55, 319-325.	4.5	16
126	Ultrasonic slurry sampling combined with total reflection X-ray spectrometry for multi-elemental analysis of coastal sediments in a ria system. <i>Microchemical Journal</i> , 2014, 112, 172-180.	4.5	16

#	ARTICLE	IF	CITATIONS
127	Unmodified gold nanoparticles for in-drop plasmonic-based sensing of iodide. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 940-948.	7.8	16
128	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.	2.9	16
129	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.	11.4	16
130	Leaching of Heavy Metals from an Aquatic Plant (<i>Lagarosiphon Major</i>) used as Environmental Biomonitor by Ultrasonic Extraction. <i>International Journal of Environmental Analytical Chemistry</i> , 1998, 72, 47-57.	3.3	15
131	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, 386-390.	5.5	15
132	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.	5.5	15
133	Greening sample preparation: An overview of cutting-edge contributions. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021, 30, 100481.	5.9	15
134	Determination of chromium by AAS using volatile β -diketonate complexes. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1987, 328, 56-60.	0.8	14
135	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.	2.9	14
136	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, 111-116.	5.5	14
137	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.	5.0	14
138	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.	5.6	14
139	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.	2.5	14
140	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.	2.9	13
141	Paper-Based Analytical Devices for Colorimetric and Luminescent Detection of Mercury in Waters: An Overview. <i>Sensors</i> , 2021, 21, 7571.	3.8	13
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.	2.9	13
143	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.	2.7	12
144	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, 1448-1452.	5.5	12

#	ARTICLE	IF	CITATIONS
145	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.	2.9	12
146	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.	5.5	12
147	Nanomaterial-Integrated Cellulose Platforms for Optical Sensing of Trace Metals and Anionic Species in the Environment. <i>Sensors</i> , 2021, 21, 604.	3.8	12
148	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.	7.8	12
149	Some observations on the mechanisms for stabilization of chromium in graphite furnace-atomic absorption spectrometry. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1988, 332, 783-786.	0.8	11
150	Determination of chromium in steel by atomic absorption spectrometry using a direct chelate volatilisation method. <i>Journal of Analytical Atomic Spectrometry</i> , 1989, 4, 105.	3.0	11
151	Application of the ligand vapour technique to the volatilization of unstable chelate compounds (particularly iron(III) trifluoroacetylacetonate) in AAS. <i>Fresenius' Journal of Analytical Chemistry</i> , 1990, 338, 721-725.	1.5	11
152	Investigations of the carbothermal reduction mechanism of aluminum oxide in graphite furnace-atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1990, 45, 547-559.	2.9	11
153	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, 61-67.	5.4	11
154	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.	5.0	11
155	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.	2.9	11
156	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, 7, 839-848.	7.8	11
157	Determination of chromium, cobalt, and iron by flame-atomic absorption spectrophotometry using volatilization of metal trifluoroacetyl acetates. <i>Microchemical Journal</i> , 1990, 42, 103-109.	4.5	10
158	Evaluation of an Automated Thermospray Interface for Coupling Electrothermal Atomization Atomic Absorption Spectrometry and Liquid Chromatography. <i>Analytical Chemistry</i> , 1994, 66, 4375-4381.	6.5	10
159	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.	5.4	10
160	Study of a system for introducing metal chelate complexes in AAS. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1988, 332, 37-40.	0.8	9
161	Determination of metal impurities in electrolytic iron by GF-AAS using electric dispersion in liquid medium. <i>Fresenius' Journal of Analytical Chemistry</i> , 1994, 348, 353-355.	1.5	9
162	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.	1.0	9

#	ARTICLE	IF	CITATIONS
163	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, 51-55.	5.5	9
164	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.	2.9	9
165	Gold nanorods for in-drop colorimetric determination of thiomersal after photochemical decomposition. <i>Mikrochimica Acta</i> , 2018, 185, 221.	5.0	9
166	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.	1.5	8
167	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.	5.4	8
168	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.	4.5	8
169	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.	1.5	7
170	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.	5.4	7
171	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.	2.3	7
172	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.	3.0	7
173	Volatile phase introduction of metallic beta-diketonates in atomic absorption spectrometry: Zinc acetylacetonate. <i>Mikrochimica Acta</i> , 1986, 90, 407-416.	5.0	6
174	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.	5.4	6
175	Chapter 4. Green Sample Preparation Methods. <i>RSC Green Chemistry</i> , 2011, , 63-106.	0.1	6
176	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.	5.4	6
177	Luminescent assays based on carbon dots for inorganic trace analysis. <i>Reviews in Analytical Chemistry</i> , 2015, 34, .	3.2	5
178	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.	4.5	5
179	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.	3.3	4
180	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.	2.9	4

#	ARTICLE	IF	CITATIONS
181	Quantitative Ultrasound-Assisted Extraction for Trace-Metal Determination: An Experiment for Analytical Chemistry. <i>Journal of Chemical Education</i> , 2011, 88, 480-483.	2.3	3
182	Sewage treatment, 2017, .		3
183	Ultrasound Extractions treatment, 2018, .		3
184	Determination of total lead and lead species according to their lability in coastal seawater by Chelex-100 titration and electrothermal-atomic absorption spectrometry. <i>Chemical Speciation and Bioavailability</i> , 2011, 23, 229-236.	2.0	2
185	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.	2.9	2
186	Authentication of Fishery Products. <i>Comprehensive Analytical Chemistry</i> , 2013, 60, 657-717.	1.3	2
187	Main Chemical Contaminants in Cosmetics. , 2018, , 331-383.		2
188	EDUCATIONAL WORKSHOP ON GREEN CHEMISTRY FOR UNDERGRADUATE STUDENTS: APPLICATION OF ECO-SCALE TO ANALYTICAL METHODS. <i>EDULEARN Proceedings</i> , 2019, .	0.0	0