

Sã©rgio Lc Ferreira

List of Publications by Year in descending order

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260
papers

12,758
citations

31902

53
h-index

32761

100
g-index

267
all docs

267
docs citations

267
times ranked

10216
citing authors

#	ARTICLE	IF	CITATIONS
1	Box-Behnken design: An alternative for the optimization of analytical methods. <i>Analytica Chimica Acta</i> , 2007, 597, 179-186.	2.6	2,226
2	Doehlert matrix: a chemometric tool for analytical chemistry – review. <i>Talanta</i> , 2004, 63, 1061-1067.	2.9	511
3	Statistical designs and response surface techniques for the optimization of chromatographic systems. <i>Journal of Chromatography A</i> , 2007, 1158, 2-14.	1.8	493
4	Cloud Point Extraction as a Procedure of Separation and Pre-Concentration for Metal Determination Using Spectroanalytical Techniques: A Review. <i>Applied Spectroscopy Reviews</i> , 2005, 40, 269-299.	3.4	354
5	Chemometric tools in electroanalytical chemistry: Methods for optimization based on factorial design and response surface methodology. <i>Microchemical Journal</i> , 2009, 92, 58-67.	2.3	222
6	Separation and preconcentration procedures for the determination of lead using spectrometric techniques: A review. <i>Talanta</i> , 2006, 69, 16-24.	2.9	213
7	Biodiesel: parâmetros de qualidade e métodos analíticos. <i>Quimica Nova</i> , 2009, 32, 1596-1608.	0.3	209
8	Atomic spectrometric methods for the determination of metals and metalloids in automotive fuels – A review. <i>Talanta</i> , 2007, 73, 1-11.	2.9	152
9	Use of modified rice husks as a natural solid adsorbent of trace metals: characterisation and development of an on-line preconcentration system for cadmium and lead determination by FAAS. <i>Microchemical Journal</i> , 2004, 77, 163-175.	2.3	146
10	Application of factorial designs and Doehlert matrix in optimization of experimental variables associated with the preconcentration and determination of vanadium and copper in seawater by inductively coupled plasma optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002, 57, 1939-1950.	1.5	144
11	Determination of vanadium in petroleum and petroleum products using atomic spectrometric techniques. <i>Talanta</i> , 2007, 72, 349-359.	2.9	137
12	Uranium determination using atomic spectrometric techniques: An overview. <i>Analytica Chimica Acta</i> , 2010, 674, 143-156.	2.6	136
13	Determination of phosphorus, sulfur and the halogens using high-temperature molecular absorption spectrometry in flames and furnaces – A review. <i>Analytica Chimica Acta</i> , 2009, 647, 137-148.	2.6	134
14	Nickel determination in saline matrices by ICP-AES after sorption on Amberlite XAD-2 loaded with PAN. <i>Talanta</i> , 1999, 48, 1173-1177.	2.9	128
15	Factorial design in the optimization of preconcentration procedure for lead determination by FAAS. <i>Talanta</i> , 2005, 65, 895-899.	2.9	123
16	Application of polyurethane foam as a sorbent for trace metal pre-concentration – A review. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 4-12.	1.5	121
17	Atomic absorption spectrometry – A multi element technique. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 100, 1-6.	5.8	115
18	Application of Box-Behnken design in the optimisation of an on-line pre-concentration system using knotted reactor for cadmium determination by flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2005, 60, 737-742.	1.5	111

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19	Review of procedures involving separation and preconcentration for the determination of cadmium using spectrometric techniques. <i>Journal of Hazardous Materials</i> , 2007, 145, 358-367.	6.5	106
20	On-line preconcentration system for nickel determination in food samples by flame atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2001, 445, 145-151.	2.6	104
21	Optimization of microwave assisted digestion procedure for the determination of zinc, copper and nickel in tea samples employing flame atomic absorption spectrometry. <i>Journal of Hazardous Materials</i> , 2007, 149, 264-268.	6.5	98
22	Simultaneous optimization of multiple responses and its application in Analytical Chemistry – A review. <i>Talanta</i> , 2019, 194, 941-959.	2.9	98
23	An on-line continuous flow system for copper enrichment and determination by flame atomic absorption spectroscopy. <i>Analytica Chimica Acta</i> , 2000, 403, 259-264.	2.6	97
24	Copper determination in natural water samples by using FAAS after preconcentration onto amberlite XAD-2 loaded with calmagite. <i>Talanta</i> , 2000, 50, 1253-1259.	2.9	96
25	Slurry Sampling – An Analytical Strategy for the Determination of Metals and Metalloids by Spectroanalytical Techniques. <i>Applied Spectroscopy Reviews</i> , 2010, 45, 44-62.	3.4	95
26	Robustness evaluation in analytical methods optimized using experimental designs. <i>Microchemical Journal</i> , 2017, 131, 163-169.	2.3	95
27	Multivariate optimization techniques in food analysis – A review. <i>Food Chemistry</i> , 2019, 273, 3-8.	4.2	94
28	Multivariate optimization techniques in analytical chemistry - an overview. <i>Microchemical Journal</i> , 2018, 140, 176-182.	2.3	91
29	Multivariate optimization of ultrasound-assisted extraction for determination of Cu, Fe, Ni and Zn in vegetable oils by high-resolution continuum source atomic absorption spectrometry. <i>Food Chemistry</i> , 2015, 185, 145-150.	4.2	89
30	On-line preconcentration system for lead determination in seafood samples by flame atomic absorption spectrometry using polyurethane foam loaded with 2-(2-benzothiazolylazo)-2-p-cresol. <i>Analytica Chimica Acta</i> , 2001, 441, 281-289.	2.6	86
31	Multivariate technique for optimization of digestion procedure by focussed microwave system for determination of Mn, Zn and Fe in food samples using FAAS. <i>Talanta</i> , 2006, 68, 1083-1088.	2.9	84
32	Multivariate optimization and validation studies in on-line pre-concentration system for lead determination in drinking water and saline waste from oil refinery. <i>Microchemical Journal</i> , 2004, 77, 123-129.	2.3	80
33	Analytical strategies of sample preparation for the determination of mercury in food matrices – A review. <i>Microchemical Journal</i> , 2015, 121, 227-236.	2.3	79
34	Application of Multivariate Techniques in Optimization of Spectroanalytical Methods. <i>Applied Spectroscopy Reviews</i> , 2007, 42, 475-491.	3.4	77
35	Speciation of chromium in river water samples contaminated with leather effluents by flame atomic absorption spectrometry after separation/preconcentration by cloud point extraction. <i>Microchemical Journal</i> , 2009, 92, 135-139.	2.3	74
36	Determination of cadmium and lead in table salt by sequential multi-element flame atomic absorption spectrometry. <i>Talanta</i> , 2005, 65, 960-964.	2.9	72

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37	An on-line system for preconcentration and determination of lead in wine samples by FAAS. <i>Talanta</i> , 2002, 58, 475-480.	2.9	70
38	Use of factorial design and Doehlert matrix for multivariate optimisation of an on-line preconcentration system for lead determination by flame atomic absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 375, 443-449.	1.9	69
39	Simultaneous pre-concentration procedure for the determination of cadmium and lead in drinking water employing sequential multi-element flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2007, 87, 77-80.	2.3	68
40	Determination of total arsenic and arsenic (III) in phosphate fertilizers and phosphate rocks by HG-AAS after multivariate optimization based on Box-Behnken design. <i>Talanta</i> , 2009, 80, 974-979.	2.9	68
41	A pre-concentration procedure using coprecipitation for determination of lead and iron in several samples using flame atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 2006, 575, 133-137.	2.6	67
42	Simultaneous determination of PAHS, nitro-PAHS and quinones in surface and groundwater samples using SDME/GC-MS. <i>Microchemical Journal</i> , 2017, 133, 431-440.	2.3	67
43	Statistical design-principal component analysis optimization of a multiple response procedure using cloud point extraction and simultaneous determination of metals by ICP OES. <i>Analytica Chimica Acta</i> , 2006, 580, 251-257.	2.6	66
44	On-line system for preconcentration and determination of metals in vegetables by Inductively Coupled Plasma Optical Emission Spectrometry. <i>Journal of Hazardous Materials</i> , 2007, 148, 334-339.	6.5	65
45	Pre-concentration procedure for determination of copper and zinc in food samples by sequential multi-element flame atomic absorption spectrometry. <i>Talanta</i> , 2008, 77, 73-76.	2.9	65
46	Application of Doehlert matrix and factorial designs in optimization of experimental variables associated with preconcentration and determination of molybdenum in sea-water by inductively coupled plasma optical emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 115-120.	1.6	64
47	Application of three-variables Doehlert matrix for optimisation of an on-line pre-concentration system for zinc determination in natural water samples by flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2003, 75, 211-221.	2.3	61
48	Polyurethane foam as a sorbent for continuous flow analysis: Preconcentration and spectrophotometric determination of zinc in biological materials. <i>Analytica Chimica Acta</i> , 1998, 366, 263-269.	2.6	60
49	Application of Doehlert designs for optimisation of an on-line preconcentration system for copper determination by flame atomic absorption spectrometry. <i>Talanta</i> , 2003, 61, 295-303.	2.9	59
50	A Pre-Concentration Procedure Using Cloud Point Extraction for the Determination of Uranium in Natural Water. <i>Mikrochimica Acta</i> , 2006, 154, 163-167.	2.5	59
51	Simplex optimization: A tutorial approach and recent applications in analytical chemistry. <i>Microchemical Journal</i> , 2016, 124, 45-54.	2.3	58
52	Sources and distribution of polycyclic aromatic hydrocarbons (PAHs) and organic matter in surface sediments of an estuary under petroleum activity influence, Todos os Santos Bay, Brazil. <i>Marine Pollution Bulletin</i> , 2017, 119, 223-230.	2.3	58
53	Multivariate optimization of a procedure employing microwave-assisted digestion for the determination of nickel and vanadium in crude oil by ICP OES. <i>Talanta</i> , 2018, 178, 842-846.	2.9	57
54	Phytoremediation in mangrove sediments impacted by persistent total petroleum hydrocarbons (TPH ^{â€™} s) using <i>Avicennia schaueriana</i> . <i>Marine Pollution Bulletin</i> , 2013, 67, 130-136.	2.3	55

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55	Multivariate optimisation of the experimental conditions for determination of three methylxanthines by reversed-phase high-performance liquid chromatography. <i>Talanta</i> , 2005, 67, 1007-1013.	2.9	53
56	Application of multivariate optimization in the development of an ultrasound-assisted extraction procedure for multielemental determination in bean seeds samples using ICP OES. <i>Microchemical Journal</i> , 2009, 91, 153-158.	2.3	53
57	Flow injection determination of cobalt after its sorption onto polyurethane foam loaded with 2-(2-thiazolylazo)-p-cresol (TAC). <i>Talanta</i> , 2001, 54, 61-67.	2.9	52
58	An on-line solid phase extraction system using polyurethane foam for the spectrophotometric determination of nickel in silicates and alloys. <i>Analytica Chimica Acta</i> , 1999, 378, 287-292.	2.6	51
59	A simple, rapid and green ultrasound assisted and ionic liquid dispersive microextraction procedure for the determination of tin in foods employing ETAAS. <i>Food Chemistry</i> , 2018, 245, 380-384.	4.2	51
60	Application of polyurethane foam loaded with BTAC in an on-line preconcentration system: cadmium determination by FAAS. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000, 55, 1497-1502.	1.5	49
61	Enrichment and determination of molybdenum in geological samples and seawater by ICP-AES using calmagite and activated carbon. <i>Analytica Chimica Acta</i> , 2001, 426, 79-84.	2.6	49
62	Determination of cadmium by FAAS after on-line enrichment using a mini column packed with Amberlite XAD-2 loaded with TAM. <i>Microchemical Journal</i> , 2000, 65, 59-65.	2.3	48
63	The determination of molybdenum in water and biological samples by graphite furnace atomic spectrometry after polyurethane foam column separation and preconcentration. <i>Talanta</i> , 2003, 61, 789-795.	2.9	48
64	Determination of ascorbic acid in natural fruit juices using digital image colorimetry. <i>Microchemical Journal</i> , 2019, 149, 104031.	2.3	48
65	Method development for the determination of cadmium in fertilizer samples using high-resolution continuum source graphite furnace atomic absorption spectrometry and slurry sampling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 529-535.	1.5	47
66	On-line preconcentration system for flame atomic absorption spectrometry using unloaded polyurethane foam: determination of zinc in waters and biological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1749-1753.	1.6	46
67	Multivariate optimization of a solid phase microextraction-headspace procedure for the determination of benzene, toluene, ethylbenzene and xylenes in effluent samples from a waste treatment plant. <i>Journal of Chromatography A</i> , 2008, 1203, 99-104.	1.8	46
68	Inorganic As speciation and bioavailability in estuarine sediments of Todos os Santos Bay, BA, Brazil. <i>Marine Pollution Bulletin</i> , 2010, 60, 2225-2232.	2.3	46
69	Flow-injection solid-phase spectrophotometry for the determination of zinc in pharmaceutical preparations. <i>Analytica Chimica Acta</i> , 1999, 383, 309-315.	2.6	45
70	Separation and Preconcentration of Cobalt after Sorption onto Amberlite XAD-2 Loaded with 2-(2-Thiazolylazo)-p-cresol.. <i>Analytical Sciences</i> , 1999, 15, 189-191.	0.8	45
71	An automated on-line flow system for the pre-concentration and determination of lead by flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2001, 68, 41-46.	2.3	45
72	Determination of mercury in rice by MSFIA and cold vapour atomic fluorescence spectrometry. <i>Food Chemistry</i> , 2013, 137, 159-163.	4.2	45

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73	A review of reflux systems using cold finger for sample preparation in the determination of volatile elements. <i>Microchemical Journal</i> , 2013, 106, 307-310.	2.3	45
74	Simultaneous determination and speciation analysis of arsenic and chromium in iron supplements used for iron-deficiency anemia treatment by HPLC-ICP-MS. <i>Talanta</i> , 2017, 170, 523-529.	2.9	45
75	Simultaneous determination of cadmium, iron and tin in canned foods using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2016, 153, 45-50.	2.9	44
76	Sensitive spectrophotometric determination of ascorbic acid in fruit juices and pharmaceutical formulations using 2-(5-bromo-2-pyridylazo)-5-diethylaminophenol (Br-PADAP). <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 1174-1178.	1.5	43
77	Determination of copper in powdered chocolate samples by slurry-sampling flame atomic-absorption spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 1099-1102.	1.9	43
78	Palladium as chemical modifier for the stabilization of volatile nickel and vanadium compounds in crude oil using graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1332.	1.6	43
79	Speciation analysis based on digital image colorimetry: Iron (II/III) in white wine. <i>Talanta</i> , 2019, 194, 86-89.	2.9	43
80	Method development for the determination of manganese in wheat flour by slurry sampling flame atomic absorption spectrometry. <i>Food Chemistry</i> , 2007, 101, 397-400.	4.2	42
81	Direct determination of iron and manganese in wine using the reference element technique and fast sequential multi-element flame atomic absorption spectrometry. <i>Talanta</i> , 2008, 74, 699-702.	2.9	42
82	Principal component analysis and hierarchical cluster analysis for homogeneity evaluation during the preparation of a wheat flour laboratory reference material for inorganic analysis. <i>Microchemical Journal</i> , 2010, 95, 222-226.	2.3	40
83	Spectrophotometric determination of uranium using 2-(2-Thiazolylazo)-p-Cresol (TAC) in the presence of surfactants. <i>Journal of the Brazilian Chemical Society</i> , 1999, 10, 519-522.	0.6	39
84	Fast method for the determination of copper, manganese and iron in seafood samples. <i>Journal of Food Composition and Analysis</i> , 2008, 21, 259-263.	1.9	39
85	Use of pollution indices and ecological risk in the assessment of contamination from chemical elements in soils and sediments – Practical aspects. <i>Trends in Environmental Analytical Chemistry</i> , 2022, 35, e00169.	5.3	37
86	Selectivity enhancement in spectrophotometry: on-line interference suppression using polyurethane foam minicolumn for aluminum determination with Methyl Thymol Blue. <i>Analyst, The</i> , 1999, 124, 805-808.	1.7	36
87	Doehlert matrix for optimisation of procedure for determination of nickel in saline oil-refinery effluents by use of flame atomic absorption spectrometry after preconcentration by cloud-point extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 798-803.	1.9	36
88	Method development for the determination of lead in wine using electrothermal atomic absorption spectrometry comparing platform and filter furnace atomizers and different chemical modifiers. <i>Talanta</i> , 2008, 74, 1321-1329.	2.9	36
89	Mineral composition of wheat flour consumed in Brazilian cities. <i>Journal of the Brazilian Chemical Society</i> , 2008, 19, 935-942.	0.6	36
90	Strategies of sample preparation for speciation analysis of inorganic antimony using hydride generation atomic spectrometry. <i>Microchemical Journal</i> , 2014, 114, 22-31.	2.3	36

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91	Development of a MSFIA system for sequential determination of antimony, arsenic and selenium using hydride generation atomic fluorescence spectrometry. <i>Talanta</i> , 2016, 156-157, 29-33.	2.9	36
92	Determination of mercury in phosphate fertilizers by cold vapor atomic absorption spectrometry. <i>Talanta</i> , 2013, 106, 293-297.	2.9	35
93	Analytical strategies for determination of cadmium in Brazilian vinegar samples using ET AAS. <i>Food Chemistry</i> , 2014, 160, 209-213.	4.2	35
94	An online preconcentration system for speciation analysis of arsenic in seawater by hydride generation flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2018, 143, 175-180.	2.3	35
95	Speciation analysis of antimony in environmental samples employing atomic fluorescence spectrometry – Review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 110, 335-343.	5.8	34
96	2-(2-Thiazolylazo)-p-cresol(TAC) as a Reagent for the Spectrophotometric Determination of Lead(II). <i>Analytical Letters</i> , 1991, 24, 1675-1684.	1.0	33
97	Nickel and zinc determination by flow-injection solid-phase spectrophotometry exploiting different sorption rates. <i>Talanta</i> , 2000, 51, 1027-1033.	2.9	32
98	Determination of manganese and zinc in powdered chocolate samples by slurry sampling using sequential multi-element flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2006, 82, 159-162.	2.3	32
99	Development of method for the speciation of inorganic iron in wine samples. <i>Analytica Chimica Acta</i> , 2007, 602, 89-93.	2.6	32
100	Optimization of the operating conditions using factorial designs for determination of uranium by inductively coupled plasma optical emission spectrometry. <i>Microchemical Journal</i> , 2011, 97, 113-117.	2.3	32
101	Determination of mercury in airborne particulate matter collected on glass fiber filters using high-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sampling. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2011, 66, 378-382.	1.5	32
102	Solid Phase Spectrophotometry for the Determination of Cobalt in Pharmaceutical Preparations. <i>Mikrochimica Acta</i> , 2001, 137, 29-33.	2.5	31
103	Characterization and determination of the thermodynamic and kinetic properties of the adsorption of the molybdenum(VI) – calmagite complex onto active carbon. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 276-280.	5.0	31
104	Comparison of direct solid sampling and slurry sampling for the determination of cadmium in wheat flour by electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2008, 77, 400-406.	2.9	31
105	A Multiple Response Function for Optimization of Analytical Strategies Involving Multi-elemental Determination. <i>Current Analytical Chemistry</i> , 2016, 12, 94-101.	0.6	31
106	Factorial Design and Doehlert Matrix in Optimization of Flow System for Preconcentration of Copper on Polyurethane Foam Loaded with 4-(2-Pyridylazo)resorcinol. <i>Analytical Letters</i> , 2004, 37, 1437-1455.	1.0	30
107	Application of factorial design and Doehlert matrix in the optimisation of instrumental parameters for direct determination of silicon in naphtha using graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 246-249.	1.6	30
108	A Pre-Concentration Procedure Using Cloud Point Extraction for the Determination of Manganese in Saline Effluents of a Petroleum Refinery by Flame Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 2006, 154, 149-152.	2.5	30

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109	Development of an analytical approach for determination of total arsenic and arsenic (III) in airborne particulate matter by slurry sampling and HG-FAAS. <i>Microchemical Journal</i> , 2010, 96, 46-49.	2.3	30
110	Use of multivariate analysis techniques for the characterization of analytical results for the determination of the mineral composition of kale. <i>Microchemical Journal</i> , 2010, 96, 352-356.	2.3	30
111	Derivative spectrophotometric determination of nickel using Br-PADAP. <i>Talanta</i> , 1996, 43, 1649-1656.	2.9	29
112	Arsenic determination in naphtha by electrothermal atomic absorption spectrometry after preconcentration using multiple injections. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1267.	1.6	29
113	Determination of cadmium in rice by electrothermal atomic absorption spectrometry using aluminum as permanent modifier. <i>Analytical Methods</i> , 2011, 3, 2495.	1.3	29
114	Selenite biotransformation during brewing. Evaluation by HPLC-ICP-MS. <i>Talanta</i> , 2012, 88, 272-276.	2.9	29
115	Sequential determination of cadmium and lead in organic pharmaceutical formulations using high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , 2017, 130, 157-161.	2.3	29
116	Use of factorial design for optimization of microwave-assisted digestion of lubricating oil. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 1269-1274.	0.6	28
117	Determination of zinc and copper in human hair by slurry sampling employing sequential multi-element flame atomic absorption spectrometry. <i>Microchemical Journal</i> , 2007, 87, 128-131.	2.3	28
118	Use of slurry sampling for the direct determination of zinc in yogurt by high resolution-continuum source flame atomic absorption spectrometry. <i>Talanta</i> , 2010, 81, 1357-1359.	2.9	28
119	Slurry sampling and high-resolution continuum source flame atomic absorption spectrometry using secondary lines for the determination of Ca and Mg in dairy products. <i>Microchemical Journal</i> , 2011, 98, 231-233.	2.3	28
120	Liquid phase microextraction associated with flow injection systems for the spectrometric determination of trace elements. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 110, 357-366.	5.8	28
121	Spectrophotometric determination of tin in copper-based alloys using pyrocatechol violet. <i>Talanta</i> , 1995, 42, 1973-1978.	2.9	27
122	ICP-AES determination of small amounts of zinc in copper-base alloys after separation by adsorption of the zinc-TAN complex on Sep Pak C18 cartridges. <i>Talanta</i> , 1998, 46, 1279-1283.	2.9	26
123	Feasibility of employing permanent chemical modifiers for the determination of cadmium in coal using slurry sampling electrothermal atomic absorption spectrometry. <i>Microchemical Journal</i> , 2006, 82, 174-182.	2.3	26
124	The chemical generation of NO for the determination of nitrite by high-resolution continuum source molecular absorption spectrometry. <i>Talanta</i> , 2012, 98, 231-235.	2.9	26
125	Determination of Cd, Cu, and Pb after Cloud Point Extraction using Multielemental Sequential Determination by Thermospray Flame Furnace Atomic Absorption Spectrometry (TS-FAAS). <i>Separation Science and Technology</i> , 2008, 43, 815-827.	1.3	25
126	Application of pyridylazo and thiazolylazo reagents in flow injection preconcentration systems for determination of metals. <i>Talanta</i> , 2009, 79, 2-9.	2.9	25

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127	Direct determination of chromium in infant formulas employing high-resolution continuum source electrothermal atomic absorption spectrometry and solid sample analysis. <i>Talanta</i> , 2015, 144, 39-43.	2.9	25
128	Analytical strategies for determining the sources and ecotoxicological risk of PAHs in river sediment. <i>Microchemical Journal</i> , 2018, 137, 90-97.	2.3	25
129	On-line solid phase extraction system using an ion imprinted polymer based on dithizone chelating for selective preconcentration and determination of mercury(II) in natural waters by CV AFS. <i>Microchemical Journal</i> , 2019, 150, 104075.	2.3	25
130	Multivariate Optimization in Preconcentration Procedure for Manganese Determination in Seawater Samples by FAAS. <i>Mikrochimica Acta</i> , 2004, 146, 271-278.	2.5	24
131	Development of an analytical method for the determination of arsenic in gasoline samples by hydride generation-graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012, 71-72, 102-106.	1.5	24
132	The use of water soluble tertiary amine reagent for solubilization and metal determination in fish muscle tissue. <i>Journal of the Brazilian Chemical Society</i> , 2005, 16, 69-73.	0.6	23
133	Automatic on-line pre-concentration system using a knotted reactor for the FAAS determination of lead in drinking water. <i>Journal of Hazardous Materials</i> , 2007, 141, 540-545.	6.5	23
134	A photo-oxidation procedure using UV radiation/H ₂ O ₂ for decomposition of wine samples - Determination of iron and manganese content by flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 601-604.	1.5	23
135	Determination of Flavanones in Orange Juices Obtained from Different Sources by HPLC/DAD. <i>Journal of Analytical Methods in Chemistry</i> , 2014, 2014, 1-5.	0.7	23
136	Development of a simple method for the determination of nitrite and nitrate in groundwater by high-resolution continuum source electrothermal molecular absorption spectrometry. <i>Analytica Chimica Acta</i> , 2014, 806, 101-106.	2.6	23
137	On line automated system for the determination of Sb(V), Sb(III), trimethyl antimony(v) and total antimony in soil employing multisyringe flow injection analysis coupled to HG-AFS. <i>Talanta</i> , 2017, 165, 502-507.	2.9	23
138	Doehlert design in the optimization of procedures aiming food analysis - A review. <i>Food Chemistry</i> , 2021, 364, 130429.	4.2	23
139	Quantitative separation of zinc traces from cadmium matrices by solid-phase extraction with polyurethane foam. <i>Talanta</i> , 1998, 46, 1525-1530.	2.9	22
140	Optimization of the preconcentration system of cadmium with 1(2-thiazolylazo)-p-cresol using a knotted reactor and flame atomic absorption spectrometric detection. <i>Journal of Hazardous Materials</i> , 2004, 112, 279-283.	6.5	22
141	Factorial design for multivariate optimization of an on-line preconcentration system for platinum determination by ultrasonic nebulization coupled to inductively coupled plasma optical emission spectrometry. <i>Talanta</i> , 2004, 63, 1077-1082.	2.9	22
142	Application of multivariate technique in method development for the direct determination of copper in petroleum condensate using graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 127-129.	1.6	22
143	Slurry Sampling for the Determination of Mercury in Rice Using Cold Vapor Atomic Absorption Spectrometry. <i>Food Analytical Methods</i> , 2012, 5, 1289-1295.	1.3	22
144	Determination and evaluation of the mineral composition of breadfruit (<i>Artocarpus altilis</i>) using multivariate analysis technique. <i>Microchemical Journal</i> , 2016, 128, 84-88.	2.3	22

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146	Determination of antimony in airborne particulate matter collected on filters using direct solid sampling and high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 580-584.	1.6	21
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150	Molybdenum determination in iron matrices by ICP-AES after separation and preconcentration using polyurethane foam. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 369, 187-190.	1.5	20
151	Application of multivariate techniques for optimization of direct method for determination of lead in naphtha and petroleum condensate by electrothermal atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2007, 158, 321-326.	2.5	20
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155	Assessment of toxicity of metals in river sediments for human supply: Distribution, evaluation of pollution and sources identification. <i>Marine Pollution Bulletin</i> , 2020, 158, 111423.	2.3	20
156	Optimisation of focused-microwave assisted digestion procedure for Kjeldahl nitrogen determination in bean samples by factorial design and Doehlert design. <i>Talanta</i> , 2005, 65, 710-715.	2.9	19
157	Behaviour of chemical modifiers in the determination of arsenic by electrothermal atomic absorption spectrometry in petroleum products. <i>Talanta</i> , 2005, 67, 195-204.	2.9	19
158	Direct determination of gallium in bauxite employing ICP OES using the reference element technique for interference elimination. <i>Microchemical Journal</i> , 2013, 110, 198-201.	2.3	19
159	Multisyringe flow injection analysis in spectroanalytical techniques – A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 98, 1-18.	5.8	19
160	Experimental design as a tool for parameter optimization of photoelectrocatalytic degradation of a textile dye. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103264.	3.3	19
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162	Adsorptive stripping voltammetric behaviour of copper complexes of some heterocyclic azo compounds. <i>Talanta</i> , 1992, 39, 1245-1253.	2.9	18

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169	Determination of Manganese in Cassava Leaves by Slurry Sampling Flame Atomic Absorption Spectrometry. <i>Analytical Letters</i> , 2009, 42, 2206-2213.	1.0	16
170	Speciation analysis of inorganic antimony in sediment samples from São Paulo Estuary, Bahia State, Brazil. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8386-8391.	2.7	16
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179	Extraction induced by emulsion breaking for As, Se and Hg determination in crude palm oil by vapor generation-AFS. <i>Food Chemistry</i> , 2020, 318, 126473.	4.2	14
180	Determination and human health risk assessment of mercury in fish samples. <i>Talanta</i> , 2022, 247, 123557.	2.9	14

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182	Spectrophotometric and inductively coupled plasma atomic emission spectrometric determination of titanium in ilmenites after rapid dissolution with phosphoric acid. <i>Talanta</i> , 1997, 44, 165-168.	2.9	13
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186	Strategies for inorganic speciation analysis employing spectrometric techniques—Review. <i>Microchemical Journal</i> , 2020, 153, 104402.	2.3	13
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195	Spectrophotometric determination of nickel in copper-base alloy with 2-(2-thiazolylazo)-p-cresol. <i>Talanta</i> , 1988, 35, 485-486.	2.9	11
196	Spectrophotometric and derivative spectrophotometric determination of aluminium with Hydroxynaphthol Blue. <i>Talanta</i> , 1994, 41, 1631-1636.	2.9	11
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204	Spectrophotometric determination of zinc in copper-base alloys with TAN. <i>Mikrochimica Acta</i> , 1995, 118, 123-129.	2.5	10
205	Spectrophotometric determination of vanadium(IV) in the presence of vanadium(V) using Br-PADAP. <i>Mikrochimica Acta</i> , 1998, 130, 41-45.	2.5	10
206	Aluminium as chemical modifier for the determination of lead in sugar cane spirits using electrothermal atomic absorption spectrometry. <i>Analytical Methods</i> , 2011, 3, 1168.	1.3	10
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214	Ultrasound assisted extraction for the determination of mercury in sediment samples employing cold vapour atomic absorption spectrometry. <i>Analytical Methods</i> , 2016, 8, 6554-6559.	1.3	9
215	Simultaneous Determination of Chromium and Iron in Powdered Milk Using High-Resolution Continuum Source Graphite Furnace Atomic Absorption Spectrometry. <i>Food Analytical Methods</i> , 2020, 13, 284-290.	1.3	9
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218	Spectrophotometric Determination of Aluminium in Iron Ores Using Solid-Phase Extraction. <i>Journal of the Brazilian Chemical Society</i> , 1998, 9, 151-156.	0.6	8
219	Spectrophotometric determination of chromium in steel with 4-(2-thiazolylazo)-resorcinol (TAR) using microwave radiation. <i>Journal of the Brazilian Chemical Society</i> , 2004, 15, 153-157.	0.6	8
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221	Determination and Evaluation of the Mineral Composition of Chinese Cabbage (<i>Beta vulgaris</i>). <i>Food Analytical Methods</i> , 2011, 4, 567-573.	1.3	8
222	Determination of free and total sulfur(IV) compounds in coconut water using high-resolution continuum source molecular absorption spectrometry in gas phase. <i>Talanta</i> , 2018, 179, 810-815.	2.9	8
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224	Spatio-temporal assessment, sources and health risks of water pollutants at trace levels in public supply river using multivariate statistical techniques. <i>Chemosphere</i> , 2021, 282, 130942.	4.2	8
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231	Uso de irradiação de microondas na determinação espectrofotométrica de cromo com EDTA. <i>Quimica Nova</i> , 1999, 22, 194-196.	0.3	7
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