

# Marco A Z Arruda

## List of Publications by Year in Descending Order

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**Version:** 2024-04-25

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

189  
papers

5,077  
citations

37  
h-index

61  
g-index

201  
ext. papers

5,477  
ext. citations

4.4  
avg, IF

5.83  
L-index

#	Paper	IF	Citations
189	Direct analysis of tree rings using laser ablation-ICP-MS and quantitative evaluation of Zn and Cu using filter paper as a solid support for calibration. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2022</b> , 37, 795-804	3.7	1
188	Trace element homeostasis in the neurological system after SARS-CoV-2 infection: Insight into potential biochemical mechanisms.. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2022</b> , 71, 126964	4.1	0
187	Speciomics as a concept involving chemical speciation and omics. <i>Journal of Proteomics</i> , <b>2022</b> , 263, 104615	3.5	0
186	Trace elements distribution in tropical tree rings through high-resolution imaging using LA-ICP-MS analysis. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2021</b> , 68, 126872	4.1	3
185	Ionomics and lipidomics for evaluating the transgenic (cp4-EPSPS gene) and non-transgenic soybean seed generations. <i>Microchemical Journal</i> , <b>2021</b> , 165, 106130	4.8	1
184	Evaluating the total gold concentration in metallic nanoparticles with a high content of organic matter through microwave-assisted decomposition platform and plasma-based spectrometric techniques (ICP-MS and ICP OES). <i>Talanta</i> , <b>2021</b> , 224, 121808	6.2	6
183	There is plenty of room at the plant science: A review of nanoparticles applied to plant cultures. <i>Annals of Applied Biology</i> , <b>2021</b> , 178, 149-168	2.6	3
182	Applications of smartphones in analysis: Challenges and solutions <b>2021</b> , 199-248		
181	When a picture is worth a thousand words: Molecular and elemental imaging applied to environmental analysis [A review]. <i>Microchemical Journal</i> , <b>2021</b> , 169, 106526	4.8	4
180	Evaluation of the aluminum migration from metallic seals to coffee beverage after using a high-pressure coffee pod machine. <i>Journal of Food Composition and Analysis</i> , <b>2021</b> , 104, 104131	4.1	1
179	A feasible strategy based on high ultrasound frequency and mass spectrometry for discriminating individuals diagnosed with bipolar disorder and schizophrenia through ionic profile. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34 Suppl 3, e8798	2.2	3
178	Comparison of generational effect on proteins and metabolites in non-transgenic and transgenic soybean seeds through the insertion of the cp4-EPSPS gene assessed by omics-based platforms. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 202, 110918	7	4
177	Inductively coupled plasma mass spectrometry based platforms for studies involving nanoparticle effects in biological samples. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34 Suppl 3, e8726	2.2	13
176	Association between trace elements in serum from bipolar disorder and schizophrenia patients considering treatment effects. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2020</b> , 59, 126467	4.1	7
175	Spatial-temporal variability of metal pollution across an industrial district, evidencing the environmental inequality in S3 Paulo. <i>Environmental Pollution</i> , <b>2020</b> , 263, 114583	9.3	6
174	Unravelling neurological disorders through metallomics-based approaches. <i>Metallomics</i> , <b>2020</b> , 12, 1878-1896	1.5	2
173	Metallomics-based platforms for comparing the human blood serum profiles between bipolar disorder and schizophrenia patients. <i>Rapid Communications in Mass Spectrometry</i> , <b>2020</b> , 34 Suppl 3, e8698	2.2	6

172	In vitro bioaccessibility of metals from tape tea - A low-cost emerging drug. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2020</b> , 62, 126613	4.1	2
171	ICP-MS and trace element analysis as tools for better understanding medical conditions. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 133, 116094	14.6	13
170	In vitro gastrointestinal digestion to evaluate the total, bioaccessible and bioavailable concentrations of iron and manganese in all (Euterpe oleracea Mart.) pulps. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2019</b> , 53, 27-33	4.1	6
169	Benchtop and Handheld Energy-Dispersive X-Ray Fluorescence (EDXRF) as Alternative for Selenium Concentration Measurement in Biofortified Broccoli Seedling. <i>Food Analytical Methods</i> , <b>2019</b> , 12, 1520-1527	3.4	3
168	Optimization of a Methodology for Quantification and Removal of Zinc Gives Insights Into the Effect of This Metal on the Stability and Function of the Zinc-Binding Co-chaperone Ydj1. <i>Frontiers in Chemistry</i> , <b>2019</b> , 7, 416	5	4
167	Dissolved arsenic in the upper Paraguay River basin and Pantanal wetlands. <i>Science of the Total Environment</i> , <b>2019</b> , 687, 917-928	10.2	5
166	Sample Preparation Focusing on Plant Omics. <i>Advances in Experimental Medicine and Biology</i> , <b>2019</b> , 1073, 161-185	3.6	2
165	Selenium biofortification on garlic growth and other nutrients accumulation. <i>Horticultura Brasileira</i> , <b>2019</b> , 37, 294-301	0.9	6
164	Minimalist strategies applied to analysis of forensic samples using elemental and molecular analytical techniques - A review. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1063, 9-17	6.6	5
163	Quantifying proteins at microgram levels integrating gel electrophoresis and smartphone technology. <i>Journal of Proteomics</i> , <b>2019</b> , 198, 45-49	3.9	10
162	Evaluation of some effects on plant metabolism through proteins and enzymes in transgenic and non-transgenic soybeans after cultivation with silver nanoparticles. <i>Journal of Proteomics</i> , <b>2019</b> , 191, 88-106	3.9	20
161	Evaluation of changes in the macro and micronutrients homeostasis of transgenic and non-transgenic soybean plants after cultivation with silver nanoparticles through ionic approaches. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2018</b> , 48, 181-187	4.1	13
160	Total content and in vitro bioaccessibility of tellurium in Brazil nuts. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2018</b> , 48, 46-51	4.1	5
159	Ultrasonic-based membrane aided sample preparation of urine proteomes. <i>Talanta</i> , <b>2018</b> , 178, 864-869	6.2	9
158	Elemental fingerprinting of schizophrenia patient blood plasma before and after treatment with antipsychotics. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , <b>2018</b> , 268, 565-570	5.1	8
157	Tree rings reveal the reduction of Cd, Cu, Ni and Pb pollution in the central region of Sã Paulo, Brazil. <i>Environmental Pollution</i> , <b>2018</b> , 242, 320-328	9.3	21
156	Internal standard evaluation for bioimaging soybean leaves through laser ablation inductively coupled plasma mass spectrometry: a plant nanotechnology approach. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 1720-1728	3.7	8
155	Chemical Speciation and Metallomics. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1055, 183-213	16	5

154	Mobility of polivinylpyrrolidone coated silver nanoparticles in tropical soils. <i>Chemosphere</i> , <b>2018</b> , 194, 543-552	8.4	5
153	The enigma of aluminum deposition in bone tissue from a patient with chronic kidney disease: a case report. <i>Jornal Brasileiro De Nefrologia: Orgao Oficial De Sociedades Brasileira E Latino-Americana De Nefrologia</i> , <b>2018</b> , 40, 201-205	1.5	4
152	In vitro oral bioaccessibility and total content of Cu, Fe, Mn and Zn from transgenic (through cp4 EPSPS gene) and nontransgenic precursor/successor soybean seeds. <i>Food Chemistry</i> , <b>2017</b> , 225, 125-131	8.5	18
151	A quantitative approach for Cd, Cu, Fe and Mn through laser ablation imaging for evaluating the translocation and accumulation of metals in sunflower seeds. <i>Talanta</i> , <b>2017</b> , 167, 317-324	6.2	28
150	Evaluation of genetically modified <i>Arabidopsis thaliana</i> through metallomic and enzymatic approaches focusing on mass spectrometry-based platforms. <i>International Journal of Mass Spectrometry</i> , <b>2017</b> , 418, 6-14	1.9	6
149	Paper-based microfluidic devices on the crime scene: A simple tool for rapid estimation of post-mortem interval using vitreous humour. <i>Analytica Chimica Acta</i> , <b>2017</b> , 974, 69-74	6.6	29
148	Incorporation of <sup>67</sup> Zn and <sup>68</sup> Zn into carbonic anhydrase: effects on isotope enrichment and enzymatic aspects. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 1473-1480	3.7	2
147	Evaluation of silicon influence on the mitigation of cadmium-stress in the development of <i>Arabidopsis thaliana</i> through total metal content, proteomic and enzymatic approaches. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2017</b> , 44, 50-58	4.1	17
146	Depleting high-abundant and enriching low-abundant proteins in human serum: An evaluation of sample preparation methods using magnetic nanoparticle, chemical depletion and immunoaffinity techniques. <i>Talanta</i> , <b>2017</b> , 170, 199-209	6.2	20
145	Simplifying the human serum proteome for discriminating patients with bipolar disorder of other psychiatry conditions. <i>Clinical Biochemistry</i> , <b>2017</b> , 50, 1118-1125	3.5	20
144	The importance of evaluating the real metal concentration in nanoparticles post-synthesis for their applications: A case-study using silver nanoparticles. <i>Talanta</i> , <b>2016</b> , 146, 795-800	6.2	10
143	Laser ablation and inductively coupled plasma mass spectrometry focusing on bioimaging from elemental distribution using MatLab software: a practical guide. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 832-840	3.7	20
142	Expanding the information about the influence of cadmium on the metabolism of sunflowers: Evaluation of total, bioavailable, and bioaccessible content and metallobiomolecules in sunflower seeds. <i>Environmental and Experimental Botany</i> , <b>2016</b> , 125, 87-97	5.9	9
141	Acute selenium selenite exposure effects on oxidative stress biomarkers and essential metals and trace-elements in the model organism zebrafish ( <i>Danio rerio</i> ). <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2016</b> , 33, 68-72	4.1	20
140	LA-iMageS: a software for elemental distribution bioimaging using LA-ICP-MS data. <i>Journal of Cheminformatics</i> , <b>2016</b> , 8, 65	8.6	29
139	Proteomics strategies for bipolar disorder evaluation: From sample preparation to validation. <i>Journal of Proteomics</i> , <b>2016</b> , 145, 187-196	3.9	12
138	On-line coupling of physiologically relevant bioaccessibility testing to inductively coupled plasma spectrometry: Proof of concept for fast assessment of gastrointestinal bioaccessibility of micronutrients from soybeans. <i>Analytica Chimica Acta</i> , <b>2016</b> , 939, 1-9	6.6	8
137	Improved antibacterial activity of nanofiltration polysulfone membranes modified with silver nanoparticles. <i>Water Research</i> , <b>2015</b> , 81, 333-42	12.5	95

136	Evaluation of proteome alterations induced by cadmium stress in sunflower ( <i>Helianthus annuus</i> L.) cultures. <i>Ecotoxicology and Environmental Safety</i> , <b>2015</b> , 119, 170-7	7	35
135	Inhibition of bacterial adhesion on cellulose acetate membranes containing silver nanoparticles. <i>Cellulose</i> , <b>2015</b> , 22, 3895-3906	5.5	25
134	Down-Regulation of SLC8A1 as a Putative Apoptosis Evasion Mechanism by Modulation of Calcium Levels in Penile Carcinoma. <i>Journal of Urology</i> , <b>2015</b> , 194, 245-51	2.5	30
133	Bipolar disorder: recent advances and future trends in bioanalytical developments for biomarker discovery. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 661-7	4.4	12
132	Application of laser ablation (imaging) inductively coupled plasma mass spectrometry for mapping and quantifying Fe in transgenic and non-transgenic soybean leaves. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 389-395	3.7	16
131	Nanoparticles applied to plant science: a review. <i>Talanta</i> , <b>2015</b> , 131, 693-705	6.2	215
130	Metal ions bound to the human milk immunoglobulin A: metalloproteomic approach. <i>Food Chemistry</i> , <b>2015</b> , 166, 492-497	8.5	10
129	Proteomic analysis of <i>Chromobacterium violaceum</i> and its adaptability to stress. <i>BMC Microbiology</i> , <b>2015</b> , 15, 272	4.5	6
128	<i>Arabidopsis thaliana</i> and omics approaches: a review. <i>Journal of Integrated OMICS</i> , <b>2015</b> , 5,	0.5	4
127	Rapid microwave assisted extraction of meat lipids. <i>Food Research International</i> , <b>2015</b> , 78, 124-130	7	19
126	Bile and liver metallothionein behavior in copper-exposed fish. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2014</b> , 28, 70-4	4.1	26
125	Metals and (metallo)proteins identification in vitreous humor focusing on post-mortem biochemistry. <i>Metallomics</i> , <b>2014</b> , 6, 1801-7	4.5	13
124	A comparative ionic approach focusing on cadmium effects in sunflowers ( <i>Helianthus annuus</i> L.). <i>Environmental and Experimental Botany</i> , <b>2014</b> , 107, 180-186	5.9	40
123	Evaluation of Fe uptake and translocation in transgenic and non-transgenic soybean plants using enriched stable ( <sup>57</sup> Fe) as a tracer. <i>Metallomics</i> , <b>2014</b> , 6, 1832-40	4.5	10
122	Expanding resolution of metalloprotein separations from soybean seeds using 2D-HPLC-ICP-MS and SDS-PAGE as a third dimension. <i>Journal of Proteomics</i> , <b>2014</b> , 104, 94-103	3.9	10
121	Microwave-Assisted Sample Preparation Focusing on Omics Areas <b>2014</b> , 313-343		
120	Comparative proteomics and metallomics studies in <i>Arabidopsis thaliana</i> leaf tissues: evaluation of the selenium addition in transgenic and nontransgenic plants using two-dimensional difference gel electrophoresis and laser ablation imaging. <i>Proteomics</i> , <b>2014</b> , 14, 904-12	4.8	16
119	Direct and non-destructive proof of authenticity for the 2nd generation of Brazilian real banknotes via easy ambient sonic spray ionization mass spectrometry. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2014</b> , 54, 459-64	2	16

118	Behaviour of the oxidant scavenger metallothionein in hypoxia-induced neotropical fish. <i>Ecotoxicology and Environmental Safety</i> , <b>2014</b> , 103, 24-8	7	14
117	Ion mobility spectrometry focusing on speciation analysis of metals/metalloids bound to carbonic anhydrase. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7653-60	4.4	6
116	Hydride generation using a metallic atomizer after microwave-assisted extraction for inorganic arsenic speciation in biological samples. <i>Talanta</i> , <b>2013</b> , 104, 187-92	6.2	16
115	Optimization of a hydride generation metallic furnace atomic absorption spectrometry (HG-MF-AAS) method for tin determination: analytical and morphological parameters of a metallic atomizer. <i>Talanta</i> , <b>2013</b> , 117, 543-8	6.2	5
114	Evaluation of differential protein expression in <i>Haliclona aquarius</i> and sponge-associated microorganisms under cadmium stress. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7661-70	4.4	7
113	Laser ablation (imaging) for mapping and determining Se and S in sunflower leaves. <i>Metallomics</i> , <b>2013</b> , 5, 62-7	4.5	36
112	Comparative studies focusing on transgenic through cp4EPS gene and non-transgenic soybean plants: an analysis of protein species and enzymes. <i>Journal of Proteomics</i> , <b>2013</b> , 93, 107-16	3.9	37
111	Speciation analysis of selenium in plankton, Brazil nut and human urine samples by HPLC-ICP-MS. <i>Talanta</i> , <b>2013</b> , 110, 53-7	6.2	59
110	Sample preparation focusing on plant proteomics: extraction, evaluation and identification of proteins from sunflower seeds. <i>Analytical Methods</i> , <b>2013</b> , 5, 116-123	3.2	7
109	Electrophoresis and spectrometric analyses of adaptation-related proteins in thermally stressed <i>Chromobacterium violaceum</i> . <i>Genetics and Molecular Research</i> , <b>2013</b> , 12, 5057-71	1.2	4
108	New insights on proteomics of transgenic soybean seeds: evaluation of differential expressions of enzymes and proteins. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 299-314	4.4	53
107	Identification of selenium in the leaf protein of sunflowers by a combination of 2D-PAGE and laser ablation ICP-MS. <i>Mikrochimica Acta</i> , <b>2012</b> , 176, 131-136	5.8	13
106	Determination of Se using a solid-phase micro-extraction device coupled to a graphite furnace and detection by gas chromatography-mass spectrometry. <i>Analyst, The</i> , <b>2012</b> , 137, 3841-6	5	6
105	Thermospray flame furnace atomic absorption spectrometry for determination of silver in biological materials. <i>Talanta</i> , <b>2012</b> , 97, 395-9	6.2	16
104	Improving metallomics information related to transgenic and non-transgenic soybean seeds using 2D-HPLC-ICP-MS and ESI-MS/MS. <i>Metallomics</i> , <b>2012</b> , 4, 373-8	4.5	19
103	Iron insertion and hematite segregation on Fe-doped TiO <sub>2</sub> nanoparticles obtained from sol-gel and hydrothermal methods. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 5555-61	9.5	51
102	Ion mobility mass spectrometry: an elegant alternative focusing on speciation studies. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2011</b> , 26, 201-206	3.7	10
101	Two-dimensional difference gel electrophoresis applied for analytical proteomics: fundamentals and applications to the study of plant proteomics. <i>Analyst, The</i> , <b>2011</b> , 136, 4119-26	5	38

100	Influence of microwave heating on fluoride, chloride, nitrate and sulfate concentrations in water. <i>Talanta</i> , <b>2011</b> , 85, 2707-10	6.2	4
99	Evaluation of sunflower metabolism from zinc and selenium addition to the culture: A comparative metallomic study. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 307, 55-60	1.9	13
98	Exploratory analysis of the serum ionomic profile for bipolar disorder and lithium treatment. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 307, 182-184	1.9	13
97	Metallomic study on plasma samples from Nile tilapia using SR-XRF and GFAAS after separation by 2D PAGE: initial results. <i>Mikrochimica Acta</i> , <b>2011</b> , 173, 43-49	5.8	21
96	Apolipoprotein A-I as a candidate serum marker for the response to lithium treatment in bipolar disorder. <i>Proteomics</i> , <b>2011</b> , 11, 261-9	4.8	32
95	Quantitation of drugs via molecularly imprinted polymer solid phase extraction and electrospray ionization mass spectrometry: benzodiazepines in human plasma. <i>Analyst, The</i> , <b>2011</b> , 136, 3753-7	5	28
94	Effects of combined use of light irradiation and 35% hydrogen peroxide for dental bleaching on human enamel mineral content. <i>Photomedicine and Laser Surgery</i> , <b>2010</b> , 28, 533-8		28
93	Metalloproteomics as an interdisciplinary area involving proteins and metals. <i>Expert Review of Proteomics</i> , <b>2010</b> , 7, 387-400	4.2	28
92	Evaluation of sample preparation protocols for proteomic analysis of sunflower leaves. <i>Talanta</i> , <b>2010</b> , 80, 1545-51	6.2	21
91	Thermospray generation directly into a flame furnace--an alternative to improve the detection power in atomic absorption spectrometry. <i>Talanta</i> , <b>2010</b> , 82, 437-43	6.2	11
90	Analytical approach to the metallomic of Nile tilapia ( <i>Oreochromis niloticus</i> ) liver tissue by SRXRF and FAAS after 2D-PAGE separation: Preliminary results. <i>Talanta</i> , <b>2010</b> , 82, 1052-6	6.2	34
89	A comparative study of element concentrations and binding in transgenic and non-transgenic soybean seeds. <i>Metallomics</i> , <b>2010</b> , 2, 800-5	4.5	27
88	Molecularly imprinted polymers as analyte sequesters and selective surfaces for easy ambient sonic-spray ionization. <i>Analyst, The</i> , <b>2010</b> , 135, 726-30	5	48
87	Image analysis of two-dimensional gel electrophoresis for comparative proteomics of transgenic and non-transgenic soybean seeds. <i>Journal of Proteomics</i> , <b>2010</b> , 73, 1433-40	3.9	69
86	A sequential injection system for indirect spectrophotometric determination of lactic acid in yogurt and fermented mash samples. <i>Microchemical Journal</i> , <b>2010</b> , 96, 151-156	4.8	11
85	Determination of tin and lead in sediment slurries by graphite furnace atomic absorption spectrometry. <i>Mikrochimica Acta</i> , <b>2009</b> , 164, 445-451	5.8	8
84	On-line molecularly imprinted solid-phase extraction for the selective spectrophotometric determination of nicotine in the urine of smokers. <i>Analytica Chimica Acta</i> , <b>2009</b> , 635, 102-7	6.6	51
83	Thermospray nebulization for flame furnace atomic absorption spectrometry [Correlations between spray formation and cadmium analytical sensitivity. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2009</b> , 64, 89-94	3.1	11

82	Atomic spectrometry based on metallic tube atomizers heated by flame: Innovative strategies from fundamentals to analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2009</b> , 64, 477-481	3.1	7
81	An aqueous two-phase system as a strategy for serum albumin depletion. <i>Talanta</i> , <b>2009</b> , 77, 985-90	6.2	30
80	Evaluation of metal-ion stress in sunflower ( <i>Helianthus annuus</i> L.) leaves through proteomic changes. <i>Metallomics</i> , <b>2009</b> , 1, 107-113	4.5	32
79	Metabolic profiling of human blood serum from treated patients with bipolar disorder employing 1H NMR spectroscopy and chemometrics. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 9755-63	7.8	51
78	Molecularly imprinted polymer as a solid phase extractor in flow analysis. <i>Talanta</i> , <b>2008</b> , 76, 988-96	6.2	63
77	Improvements in cobalt determination by thermospray flame furnace atomic absorption spectrometry using an on-line derivatization strategy. <i>Talanta</i> , <b>2008</b> , 76, 475-8	6.2	7
76	Determination of Cd, Cu, and Pb after Cloud Point Extraction using Multielemental Sequential Determination by Thermospray Flame Furnace Atomic Absorption Spectrometry (TS-FF-AAS). <i>Separation Science and Technology</i> , <b>2008</b> , 43, 815-827	2.5	22
75	A metallic furnace atomizer in hydride generation atomic absorption spectrometry: Determination of bismuth and selenium. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2008</b> , 63, 850-855	3.1	16
74	Grape bagasse as an alternative natural adsorbent of cadmium and lead for effluent treatment. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 154, 1007-12	12.8	39
73	Grape bagasse as a potential biosorbent of metals in effluent treatments. <i>Bioresource Technology</i> , <b>2007</b> , 98, 1940-6	11	172
72	Microwave-assisted decomposition of polyacrylamide gels containing metalloproteins using mini-vials: an auxiliary strategy for metallomics studies. <i>Analytical Biochemistry</i> , <b>2007</b> , 361, 146-8	3.1	12
71	Cloud point extraction applied to casein proteins of cow milk and their identification by mass spectrometry. <i>Analytica Chimica Acta</i> , <b>2007</b> , 590, 166-72	6.6	41
70	On-line molecularly imprinted solid phase extraction for the selective spectrophotometric determination of catechol. <i>Microchemical Journal</i> , <b>2007</b> , 85, 290-296	4.8	67
69	Application of Kohonen neural network to exploratory analyses of synchrotron radiation x-ray fluorescence measurements of sunflower metalloproteins. <i>X-Ray Spectrometry</i> , <b>2007</b> , 36, 122-129	0.9	19
68	Evaluation of soybean seed protein extraction focusing on metalloprotein analysis. <i>Mikrochimica Acta</i> , <b>2007</b> , 158, 173-180	5.8	34
67	On-line bi-directional electrostacking for As speciation/preconcentration using electrothermal atomic absorption spectrometry. <i>Talanta</i> , <b>2007</b> , 71, 353-8	6.2	7
66	Sample preparation for metalloprotein analysis: A case study using horse chestnuts. <i>Talanta</i> , <b>2007</b> , 71, 1958-63	6.2	28
65	Metal furnace heated by flame as a hydride atomizer for atomic absorption spectrometry: Sb determination in environmental and pharmaceutical samples. <i>Talanta</i> , <b>2007</b> , 73, 621-8	6.2	18



64	Comparative metallomics for transgenic and non-transgenic soybeans. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2007</b> , 22, 1501	3.7	23
63	Description of the thermospray formed at low flow rate in thermospray flame furnace atomic absorption spectrometry based on high-speed images. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 6527-33	7.8	21
62	Online Preconcentration/Determination of Cadmium Using Grape Bagasse in a Flow System Coupled to Thermospray Flame Furnace Atomic Absorption Spectrometry. <i>Spectroscopy Letters</i> , <b>2006</b> , 39, 755-768	1.1	24
61	Metal contamination effects on sunflower ( <i>Helianthus annuus</i> L.) growth and protein expression in leaves during development. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 8623-30	5.7	62
60	Determination of Sb(III) and Total Sb in Antileishmanial Drugs by Spectrophotometric Flow-Injection Hydride Generation. <i>Analytical Letters</i> , <b>2006</b> , 39, 543-554	2.2	6
59	Trends in metal-binding and metalloprotein analysis. <i>Talanta</i> , <b>2006</b> , 69, 1-15	6.2	124
58	Mechanization of the Bradford reaction for the spectrophotometric determination of total proteins. <i>Analytical Biochemistry</i> , <b>2006</b> , 351, 155-7	3.1	30
57	Acid extraction and cloud point preconcentration as sample preparation strategies for cobalt determination in biological materials by thermospray flame furnace atomic absorption spectrometry. <i>Microchemical Journal</i> , <b>2006</b> , 82, 189-195	4.8	74
56	Determina de cromo (VI) por espectrometria de absor atmica com chama ap a extra e pr-concentra no ponto nuvem. <i>Eletica Quimica</i> , <b>2006</b> , 31, 73-80	2.6	8
55	Cloud Point Extraction as a Procedure of Separation and Pre-Concentration for Metal Determination Using Spectroanalytical Techniques: A Review. <i>Applied Spectroscopy Reviews</i> , <b>2005</b> , 40, 269-299	4.5	316
54	Metal-binding proteins scanning and determination by combining gel electrophoresis, synchrotron radiation X-ray fluorescence and atomic spectrometry. <i>Journal of Proteomics</i> , <b>2005</b> , 62, 97-109		32
53	Preconcentration procedure using cloud point extraction in the presence of electrolyte for cadmium determination by flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2005</b> , 60, 743-748	3.1	67
52	Classification of Antarctic algae by applying Kohonen neural network with 14 elements determined by inductively coupled plasma optical emission spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2005</b> , 60, 725-730	3.1	14
51	Evaluation of a synergetic effect between Rh as permanent chemical modifier and acetylacetone as complexing agent in Sc determination in sediment slurry samples by ETAAS. <i>Analytica Chimica Acta</i> , <b>2005</b> , 530, 299-305	6.6	3
50	Direct determination of Cu, Mn, Pb, and Zn in beer by thermospray flame furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2005</b> , 60, 749-753	3.1	70
49	Evaluation of Medicinal Plant Decomposition Efficiency Using Microwave Ovens and Mini-Vials for Cd Determination by TS-FF-AAS. <i>Mikrochimica Acta</i> , <b>2005</b> , 150, 283-290	5.8	25
48	Use of experimental design in the optimisation of a solid phase preconcentration system for Cobalt determination by GFAAS. <i>Eletica Quimica</i> , <b>2005</b> , 30, 65-74	2.6	9
47	OnLine Coupling of a Flow Injection System to TS-FF-AAS for Preconcentration and Determination of Lead in Water and Vegetables. <i>Analytical Letters</i> , <b>2005</b> , 38, 1427-1443	2.2	15

46	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> , <b>2004</b> , 37, 1437-1455	2.2	27
45	Modern Strategies for Environmental Sample Preparation and Analysis <b>2004</b> , 37-68		1
44	Preconcentration of Cd(II) and Pb(II) Using Humic Substances and Flow Systems Coupled to Flame Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , <b>2004</b> , 146, 215-222	5.8	15
43	Determination of cadmium and lead at low levels by using preconcentration at fullerene coupled to thermospray flame furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2004</b> , 59, 515-521	3.1	59
42	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> , <b>2004</b> , 77, 163-175	4.8	118
41	Biosorption of heavy metals using rice milling by-products. Characterisation and application for removal of metals from aqueous effluents. <i>Chemosphere</i> , <b>2004</b> , 54, 987-95	8.4	234
40	Evaluation of zirconium as a permanent chemical modifier using synchrotron radiation and imaging techniques for lithium determination in sediment slurry samples by ET AAS. <i>Talanta</i> , <b>2004</b> , 62, 619-26	6.2	7
39	Direct determination of Cu and Zn in fruit juices and bovine milk by thermospray flame furnace atomic absorption spectrometry. <i>Talanta</i> , <b>2004</b> , 64, 912-7	6.2	56
38	A sensitive method for cadmium determination using an on-line polyurethane foam preconcentration system and thermospray flame furnace atomic absorption spectrometry. <i>Analytical Sciences</i> , <b>2004</b> , 20, 961-6	1.7	50
37	Vermicompost as a natural adsorbent material: characterization and potentialities for cadmium adsorption. <i>Journal of the Brazilian Chemical Society</i> , <b>2003</b> , 14, 39-47	1.5	49
36	Analysis of Powdered Coffee and Milk by ICP OES after Sample Treatment with Tetramethylammonium Hydroxide. <i>Mikrochimica Acta</i> , <b>2003</b> , 141, 149-155	5.8	47
35	Trends in Preconcentration Procedures for Metal Determination Using Atomic Spectrometry Techniques. <i>Mikrochimica Acta</i> , <b>2003</b> , 141, 115-131	5.8	119
34	Exploratory analysis of L <sub>9</sub> platform surfaces for electrothermal atomic absorption spectrometry by using three-way chemometric tools. <i>Analytica Chimica Acta</i> , <b>2003</b> , 495, 177-193	6.6	5
33	Cloud point formation based on mixed micelles in the presence of electrolytes for cobalt extraction and preconcentration. <i>Talanta</i> , <b>2003</b> , 61, 759-68	6.2	128
32	Ultrasound-assisted extraction of Ca, K and Mg from in vitro citrus culture. <i>Journal of the Brazilian Chemical Society</i> , <b>2003</b> , 14, 470-474	1.5	17
31	Espectrometria de absorç�o at�mica com atomizaç�o eletrot�mica em filamento de tungst�nio: uma re-vis�o cr�tica. <i>Quimica Nova</i> , <b>2002</b> , 25, 396-405	1.6	12
30	Emprego de planejamento fatorial para a otimizac�o das temperaturas de pir�lise e atomizac�o de Al, Cd, Mo e Pb por ETAAS. <i>Quimica Nova</i> , <b>2002</b> , 25, 246-253	1.6	18
29	Determination of Cd and Pb in food slurries by GFAAS using cryogenic grinding for sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 373, 183-9	4.4	56

28	Metals distribution and investigation of L'vov platform surface using principal component analysis, multi-way principal component analysis, micro synchrotron radiation X-ray fluorescence spectrometry and scanning electron microscopy after the determination of Al in a milk slurry sample. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2002</b> , 57, 1259-1276	3.1	11
27	Determination of bismuth in metallurgical materials using a quartz tube atomizer with tungsten coil and flow injection-hydride-generation atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2002</b> , 57, 2113-2120	3.1	19
26	A quartz tube atomizer with tungsten coil: a new system for vapor atomization in atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 1516-1522	3.7	10
25	Simultaneous sample digestion and determination of Cd, Cu and Pb in biological samples using thermospray flame furnace atomic absorption spectrometry (TS-FF-AAS) with slurry sample introduction. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 1308-1315	3.7	43
24	Exploratory Analysis of Micrographic Teflon Images. <i>Mikrochimica Acta</i> , <b>2001</b> , 136, 55-60	5.8	3
23	A fast ultrasound-assisted extraction of Ca, Mg, Mn and Zn from vegetables. <i>Microchemical Journal</i> , <b>2001</b> , 69, 37-43	4.8	102
22	Use of ultrasonic baths for analytical applications: a new approach for optimisation conditions. <i>Journal of the Brazilian Chemical Society</i> , <b>2001</b> , 12, 57-63	1.5	62
21	River Sediment Analysis by Slurry Sampling FAAS: Determination of Copper, Zinc and Lead. <i>Journal of the Brazilian Chemical Society</i> , <b>2001</b> , 12, 799-803	1.5	21
20	Emprego da amostragem de suspensão na determinação de Cu e Zn em lapa antiga e Ni em sedimento de rio por espectrometria de absorção atômica com chama. <i>Quimica Nova</i> , <b>2001</b> , 24, 756	1.6	3
19	Slurry analysis by multichannel arc/spark emission spectrometry using a monosegmented system: Determination of aluminium in sediments. <i>Laboratory Robotics and Automation</i> , <b>2000</b> , 12, 46-52		2
18	Direct analysis of Antarctic krill by slurry sampling: determination of copper, iron, manganese and zinc by flame atomic absorption spectrometry. <i>Journal of the Brazilian Chemical Society</i> , <b>2000</b> , 11, 365-370	1.5	13
17	Direct Analysis of Coffee and Tea for Aluminium Determination by Electrothermal Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , <b>1999</b> , 132, 95-100	5.8	9
16	Mechanised flow system for on-line microwave digestion of food samples with off-line catalytic spectrophotometric determination of cobalt at ng l <sup>-1</sup> levels. <i>Analyst, The</i> , <b>1999</b> , 124, 1873-7	5	15
15	On-line separation and preconcentration of cadmium, lead and nickel in a fullerene (C 60 ) minicolumn coupled to flow injection tungsten coil atomic absorption spectrometry 1 Presented at the Flow Analysis VII Conference held in Piracicaba, Brazil, 23-26 August 1997. 1. <i>Analytica Chimica Acta</i> , <b>1998</b> , 368, 255-263	6.6	54
14	Direct determination of lead in sweet fruit-flavored powder drinks by electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>1998</b> , 53, 601-611	3.1	14
13	On-line microwave slurry sample digestion using flow systems for the spectrophotometric determination of iron in seafood. <i>Analyst, The</i> , <b>1998</b> , 123, 1023-1028	5	17
12	Amostragem de suspensões: Emprego da técnica na análise direta de amostras. <i>Quimica Nova</i> , <b>1998</b> , 21, 459-466	1.6	19
11	Application of the Slurry Technique to the Determination of Selenium in Fish Samples by Electrothermal Atomic Absorption Spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1997</b> , 12, 375-378	3.7	16

10	Mecanizaõ no preparo de amostras por microondas: o estado da arte. <i>Quimica Nova</i> , <b>1997</b> , 20, 638	1.6	12
9	On-line microwave-assisted sample decomposition for lead determination in fish slurry samples by electrothermal atomic absorption spectrometry. <i>Journal of the Brazilian Chemical Society</i> , <b>1997</b> , 8, 39	1.5	2
8	Semi-on-line microwave-assisted digestion of shellfish tissue for the determination of selenium by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1996</b> , 11, 169-173	3.7	11
7	Automatic preparation of milk dessert slurries for the determination of trace amounts of aluminium by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1995</b> , 10, 55-59	3.7	14
6	Flow-through microwave digestion system for the determination of aluminium in shellfish by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1995</b> , 10, 501-504	3.7	16
5	Direct analysis of milk for aluminium using electrothermal atomic absorption spectrometry. <i>Analyst, The</i> , <b>1994</b> , 119, 1695-9	5	14
4	Determination of selenium in fruit juices by flow injection electrothermal atomization atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1994</b> , 9, 657-662	3.7	12
3	Determination of aluminum in slurry and liquid phase of juices by flow injection analysis graphite furnace atomic absorption spectrometry. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3331-3335	7.8	20
2	Determination of zinc in plants by flow injection spectrophotometry with ion-exchange separation. <i>Analyst, The</i> , <b>1990</b> , 115, 779	5	19
1	Laser Chemical Elemental Analysis: From Total to Images		1