

Marco A Z Arruda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5773682/publications.pdf>

Version: 2024-02-01

200
papers

6,205
citations

81743

39
h-index

98622

67
g-index

201
all docs

201
docs citations

201
times ranked

6303
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Biosorption of heavy metals using rice milling by-products. Characterisation and application for removal of metals from aqueous effluents. <i>Chemosphere</i> , 2004, 54, 987-995.	4.2	278
3	Nanoparticles applied to plant science: A review. <i>Talanta</i> , 2015, 131, 693-705.	2.9	272
4	Grape bagasse as a potential biosorbent of metals in effluent treatments. <i>Bioresource Technology</i> , 2007, 98, 1940-1946.	4.8	198
5	Trends in Preconcentration Procedures for Metal Determination Using Atomic Spectrometry Techniques. <i>Mikrochimica Acta</i> , 2003, 141, 115-131.	2.5	147
6	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
7	Cloud point formation based on mixed micelles in the presence of electrolytes for cobalt extraction and preconcentration. <i>Talanta</i> , 2003, 61, 759-768.	2.9	145
8	Trends in metal-binding and metalloprotein analysis. <i>Talanta</i> , 2006, 69, 1-15.	2.9	143
9	Improved antibacterial activity of nanofiltration polysulfone membranes modified with silver nanoparticles. <i>Water Research</i> , 2015, 81, 333-342.	5.3	119
10	A fast ultrasound-assisted extraction of Ca, Mg, Mn and Zn from vegetables. <i>Microchemical Journal</i> , 2001, 69, 37-43.	2.3	114
11	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> , 2006, 82, 189-195.	2.3	86
12	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> , 2005, 60, 749-753.	1.5	83
13	Image analysis of two-dimensional gel electrophoresis for comparative proteomics of transgenic and non-transgenic soybean seeds. <i>Journal of Proteomics</i> , 2010, 73, 1433-1440.	1.2	79
14	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> , 2005, 60, 743-748.	1.5	77
15	Use of ultrasonic baths for analytical applications: a new approach for optimisation conditions. <i>Journal of the Brazilian Chemical Society</i> , 2001, 12, 57-63.	0.6	75
16	On-line molecularly imprinted solid phase extraction for the selective spectrophotometric determination of catechol. <i>Microchemical Journal</i> , 2007, 85, 290-296.	2.3	72
17	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> , 2006, 54, 8623-8630.	2.4	71
18	Molecularly imprinted polymer as a solid phase extractor in flow analysis. <i>Talanta</i> , 2008, 76, 988-996.	2.9	71

#	ARTICLE	IF	CITATIONS
19	Speciation analysis of selenium in plankton, Brazil nut and human urine samples by HPLC-ICP-MS. <i>Talanta</i> , 2013, 110, 53-57.	2.9	70
20	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> , 2004, 59, 515-521.	1.5	65
21	Direct determination of Cu and Zn in fruit juices and bovine milk by thermospray flame furnace atomic absorption spectrometry. <i>Talanta</i> , 2004, 64, 912-917.	2.9	63
22	Iron Insertion and Hematite Segregation on Fe-Doped TiO ₂ Nanoparticles Obtained from Sol-Gel and Hydrothermal Methods. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 5555-5561.	4.0	63
23	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 1Presented at the Flow Analysis VII Conference held in Piracicaba, Brazil, 23-26 August 1997. 1. <i>Analytica Chimica Acta</i> , 1998, 368, 255-263.	2.6	62
24	Determination of Cd and Pb in food slurries by GFAAS using cryogenic grinding for sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 373, 183-189.	1.9	61
25	New insights on proteomics of transgenic soybean seeds: evaluation of differential expressions of enzymes and proteins. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 299-314.	1.9	61
26	On-line molecularly imprinted solid-phase extraction for the selective spectrophotometric determination of nicotine in the urine of smokers. <i>Analytica Chimica Acta</i> , 2009, 635, 102-107.	2.6	60
27	Metabolic Profiling of Human Blood Serum from Treated Patients with Bipolar Disorder Employing ¹ H NMR Spectroscopy and Chemometrics. <i>Analytical Chemistry</i> , 2009, 81, 9755-9763.	3.2	60
28	Vermicompost as a natural adsorbent material: characterization and potentialities for cadmium adsorption. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 39-47.	0.6	58
29	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> , 2004, 20, 961-966.	0.8	54
30	Analysis of Powdered Coffee and Milk by ICP OES after Sample Treatment with Tetramethylammonium Hydroxide. <i>Mikrochimica Acta</i> , 2003, 141, 149-155.	2.5	53
31	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> , 2002, 17, 1308-1315.	1.6	52
32	Molecularly imprinted polymers as analyte sequesters and selective surfaces for easy ambient sonic-spray ionization. <i>Analyst</i> , 2010, 135, 726.	1.7	51
33	Grape bagasse as an alternative natural adsorbent of cadmium and lead for effluent treatment. <i>Journal of Hazardous Materials</i> , 2008, 154, 1007-1012.	6.5	50
34	A comparative ionic approach focusing on cadmium effects in sunflowers (<i>Helianthus annuus</i> L.). <i>Environmental and Experimental Botany</i> , 2014, 107, 180-186.	2.0	50
35	Cloud point extraction applied to casein proteins of cow milk and their identification by mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 590, 166-172.	2.6	49
36	Comparative studies focusing on transgenic through cp4EPSPS gene and non-transgenic soybean plants: An analysis of protein species and enzymes. <i>Journal of Proteomics</i> , 2013, 93, 107-116.	1.2	43

#	ARTICLE	IF	CITATIONS
37	Two-dimensional difference gel electrophoresis applied for analytical proteomics: fundamentals and applications to the study of plant proteomics. <i>Analyst, The</i> , 2011, 136, 4119.	1.7	42
38	Laser ablation (imaging) for mapping and determining Se and S in sunflower leaves. <i>Metallomics</i> , 2013, 5, 62-67.	1.0	41
39	Metal-binding proteins scanning and determination by combining gel electrophoresis, synchrotron radiation X-ray fluorescence and atomic spectrometry. <i>Journal of Proteomics</i> , 2005, 62, 97-109.	2.4	40
40	Evaluation of proteome alterations induced by cadmium stress in sunflower (<i>Helianthus annuus L.</i>) cultures. <i>Ecotoxicology and Environmental Safety</i> , 2015, 119, 170-177.	2.9	40
41	Evaluation of soybean seed protein extraction focusing on metalloprotein analysis. <i>Mikrochimica Acta</i> , 2007, 158, 173-180.	2.5	39
42	Apolipoprotein A α as a candidate serum marker for the response to lithium treatment in bipolar disorder. <i>Proteomics</i> , 2011, 11, 261-269.	1.3	39
43	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> , 2010, 28, 533-538.	2.1	38
44	ICP-MS and trace element analysis as tools for better understanding medical conditions. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 133, 116094.	5.8	37
45	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> , 2010, 82, 1052-1056.	2.9	36
46	Down-Regulation of <i>SLC8A1</i> as a Putative Apoptosis Evasion Mechanism by Modulation of Calcium Levels in Penile Carcinoma. <i>Journal of Urology</i> , 2015, 194, 245-251.	0.2	36
47	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> , 2017, 167, 317-324.	2.9	36
48	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> , 2017, 974, 69-74.	2.6	36
49	Inhibition of bacterial adhesion on cellulose acetate membranes containing silver nanoparticles. <i>Cellulose</i> , 2015, 22, 3895-3906.	2.4	35
50	LA-iMageS: a software for elemental distribution bioimaging using LA-ICP-MS data. <i>Journal of Cheminformatics</i> , 2016, 8, 65.	2.8	35
51	Evaluation of metal-ion stress in sunflower (<i>Helianthus annuus L.</i>) leaves through proteomic changes. <i>Metallomics</i> , 2009, 1, 107-113.	1.0	34
52	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> , 2017, 170, 199-209.	2.9	34
53	Mechanization of the Bradford reaction for the spectrophotometric determination of total proteins. <i>Analytical Biochemistry</i> , 2006, 351, 155-157.	1.1	33
54	Quantitation of drugs via molecularly imprinted polymer solid phase extraction and electrospray ionization mass spectrometry: benzodiazepines in human plasma. <i>Analyst, The</i> , 2011, 136, 3753.	1.7	33

#	ARTICLE	IF	CITATIONS
55	Tree rings reveal the reduction of Cd, Cu, Ni and Pb pollution in the central region of São Paulo, Brazil. <i>Environmental Pollution</i> , 2018, 242, 320-328.	3.7	33
56	Sample preparation for metalloprotein analysis: A case study using horse chestnuts. <i>Talanta</i> , 2007, 71, 1958-1963.	2.9	32
57	An aqueous two-phase system as a strategy for serum albumin depletion. <i>Talanta</i> , 2009, 77, 985-990.	2.9	32
58	Bile and liver metallothionein behavior in copper-exposed fish. <i>Journal of Trace Elements in Medicine and Biology</i> , 2014, 28, 70-74.	1.5	32
59	Metalloproteomics as an interdisciplinary area involving proteins and metals. <i>Expert Review of Proteomics</i> , 2010, 7, 387-400.	1.3	31
60	A comparative study of element concentrations and binding in transgenic and non-transgenic soybean seeds. <i>Metallomics</i> , 2010, 2, 800.	1.0	31
61	Factorial Design and Doehlert Matrix in Optimization of Flow System for Preconcentration of Copper on Polyurethane Foam Loaded with 2-Pyridylazo-resorcinol. <i>Analytical Letters</i> , 2004, 37, 1437-1455.	1.0	30
62	Determination of aluminum in slurry and liquid phase of juices by flow injection analysis graphite furnace atomic absorption spectrometry. <i>Analytical Chemistry</i> , 1993, 65, 3331-3335.	3.2	29
63	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> , 2016, 33, 68-72.	1.5	28
64	Determination of zinc in plants by flow injection spectrophotometry with ion-exchange separation. <i>Analyst</i> , 1990, 115, 779.	1.7	27
65	Flow-through microwave digestion system for the determination of aluminium in shellfish by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1995, 10, 501-504.	1.6	27
66	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> , 1997, 12, 375-378.	1.6	27
67	Online Preconcentration/Determination of Cadmium Using Grape Bagasse in a Flow System Coupled to Thermo Spray Flame Furnace Atomic Absorption Spectrometry. <i>Spectroscopy Letters</i> , 2006, 39, 755-768.	0.5	27
68	Simplifying the human serum proteome for discriminating patients with bipolar disorder of other psychiatry conditions. <i>Clinical Biochemistry</i> , 2017, 50, 1118-1125.	0.8	27
69	Emprego de planejamento fatorial para a otimização das temperaturas de pirólise e atomização de Al, Cd, Mo e Pb por ETAAS. <i>Quimica Nova</i> , 2002, 25, 246-253.	0.3	26
70	Evaluation of Medicinal Plant Decomposition Efficiency Using Microwave Ovens and Mini-Vials for Cd Determination by TS-FF-AAS. <i>Mikrochimica Acta</i> , 2005, 150, 283-290.	2.5	26
71	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> , 2017, 44, 50-58.	1.5	26
72	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> , 2019, 191, 88-106.	1.2	26

#	ARTICLE	IF	CITATIONS
73	Comparative metallomics for transgenic and non-transgenic soybeans. <i>Journal of Analytical Atomic Spectrometry</i> , 2007, 22, 1501.	1.6	25
74	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
75	In vitro oral bioaccessibility and total content of Cu, Fe, Mn and Zn from transgenic (through cp4) Tj ETQq1 1 0.784314 rgBT/Overloc	4.2	25
76	Inductively coupled plasma mass spectrometry based platforms for studies involving nanoparticle effects in biological samples. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8726.	0.7	25
77	Preconcentration of Cd(II) and Pb(II) Using Humic Substances and Flow Systems Coupled to Flame Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 2004, 146, 215-222.	2.5	24
78	Evaluation of sample preparation protocols for proteomic analysis of sunflower leaves. <i>Talanta</i> , 2010, 80, 1545-1551.	2.9	24
79	Metallomic study on plasma samples from Nile tilapia using SR-XRF and GFAAS after separation by 2D PAGE: initial results. <i>Mikrochimica Acta</i> , 2011, 173, 43-49.	2.5	24
80	On-line microwave slurry sample digestion using flow systems for the spectrophotometric determination of iron in seafood. <i>Analyst</i> , 1998, 123, 1023-1028.	1.7	23
81	River Sediment Analysis by Slurry Sampling FAAS: Determination of Copper, Zinc and Lead. <i>Journal of the Brazilian Chemical Society</i> , 2001, 12, 799-803.	0.6	23
82	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> , 2007, 79, 6527-6533.	3.2	23
83	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> , 2002, 57, 2113-2120.	1.5	22
84	Application of Kohonen neural network to exploratory analyses of synchrotron radiation x-ray fluorescence measurements of sunflower metalloproteins. <i>X-Ray Spectrometry</i> , 2007, 36, 122-129.	0.9	22
85	Improving metallomics information related to transgenic and non-transgenic soybean seeds using 2D-HPLC-ICP-MS and ESI-MS/MS. <i>Metallomics</i> , 2012, 4, 373.	1.0	22
86	Rapid microwave assisted extraction of meat lipids. <i>Food Research International</i> , 2015, 78, 124-130.	2.9	22
87	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> , 2016, 31, 832-840.	1.6	22
88	Direct analysis of milk for aluminium using electrothermal atomic absorption spectrometry. <i>Analyst</i> , 1994, 119, 1695-1699.	1.7	21
89	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> , 1995, 10, 55-59.	1.6	21
90	Direct determination of lead in sweet fruit-flavored powder drinks by electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1998, 53, 601-611.	1.5	21

#	ARTICLE	IF	CITATIONS
91	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> , 2018, 33, 1720-1728.	1.6	21
92	Amostragem de suspensões: Emprego da técnica na análise direta de amostras. <i>Quimica Nova</i> , 1998, 21, 459-466.	0.3	20
93	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> , 1996, 11, 169-173.	1.6	19
94	Metal furnace heated by flame as a hydride atomizer for atomic absorption spectrometry: Sb determination in environmental and pharmaceutical samples. <i>Talanta</i> , 2007, 73, 621-628.	2.9	19
95	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> , 2014, 54, 459-464.	1.3	19
96	Bipolar disorder: recent advances and future trends in bioanalytical developments for biomarker discovery. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 661-667.	1.9	19
97	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> , 2015, 30, 389-395.	1.6	19
98	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> , 2018, 48, 181-187.	1.5	19
99	Ultrasound-assisted extraction of Ca, K and Mg from in vitro citrus culture. <i>Journal of the Brazilian Chemical Society</i> , 2003, 14, 470-474.	0.6	19
100	Hydride generation using a metallic atomizer after microwave-assisted extraction for inorganic arsenic speciation in biological samples. <i>Talanta</i> , 2013, 104, 187-192.	2.9	18
101	Mecanização no preparo de amostras por microondas: o estado da arte. <i>Quimica Nova</i> , 1997, 20, 638.	0.3	17
102	Mechanised flow system for on-line microwave digestion of food samples with off-line catalytic spectrophotometric determination of cobalt at ng l ⁻¹ levels. <i>Analyst</i> , 1999, 124, 1873-1877.	1.7	17
103	A quartz tube atomizer with tungsten coil: a new system for vapor atomization in atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1516-1522.	1.6	17
104	OnLine Coupling of a Flow Injection System to TSAAS for Preconcentration and Determination of Lead in Water and Vegetables. <i>Analytical Letters</i> , 2005, 38, 1427-1443.	1.0	17
105	Thermospray flame furnace atomic absorption spectrometry for determination of silver in biological materials. <i>Talanta</i> , 2012, 97, 395-399.	2.9	17
106	Microwave-assisted decomposition of polyacrylamide gels containing metalloproteins using mini-vials: An auxiliary strategy for metallomics studies. <i>Analytical Biochemistry</i> , 2007, 361, 146-148.	1.1	16
107	A metallic furnace atomizer in hydride generation atomic absorption spectrometry: Determination of bismuth and selenium. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008, 63, 850-855.	1.5	16
108	Exploratory analysis of the serum ionic profile for bipolar disorder and lithium treatment. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 182-184.	0.7	16

#	ARTICLE	IF	CITATIONS
109	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> , 2014, 14, 904-912.	1.3	16
110	Quantifying proteins at microgram levels integrating gel electrophoresis and smartphone technology. <i>Journal of Proteomics</i> , 2019, 198, 45-49.	1.2	16
111	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> , 2020, 59, 126467.	1.5	16
112	Determination of selenium in fruit juices by flow injection electrothermal atomization atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 657-662.	1.6	15
113	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> , 2000, 11, 365-370.	0.6	15
114	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> , 2005, 60, 725-730.	1.5	15
115	Therospray generation directly into a flame furnace—An alternative to improve the detection power in atomic absorption spectrometry. <i>Talanta</i> , 2010, 82, 437-443.	2.9	15
116	Behaviour of the oxidant scavenger metallothionein in hypoxia-induced neotropical fish. <i>Ecotoxicology and Environmental Safety</i> , 2014, 103, 24-28.	2.9	15
117	Proteomics strategies for bipolar disorder evaluation: From sample preparation to validation. <i>Journal of Proteomics</i> , 2016, 145, 187-196.	1.2	15
118	Elemental fingerprinting of schizophrenia patient blood plasma before and after treatment with antipsychotics. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2018, 268, 565-570.	1.8	15
119	Espectrometria de absorção atômica com atomização eletrotérmica em filamento de tungstênio: uma re-visão crítica. <i>Química Nova</i> , 2002, 25, 396-405.	0.3	14
120	Ion mobility mass spectrometry: an elegant alternative focusing on speciation studies. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 201-206.	1.6	14
121	Evaluation of sunflower metabolism from zinc and selenium addition to the culture: A comparative metallomic study. <i>International Journal of Mass Spectrometry</i> , 2011, 307, 55-60.	0.7	14
122	Identification of selenium in the leaf protein of sunflowers by a combination of 2D-PAGE and laser ablation ICP-MS. <i>Mikrochimica Acta</i> , 2012, 176, 131-136.	2.5	14
123	Metals and (metallo)proteins identification in vitreous humor focusing on post-mortem biochemistry. <i>Metallomics</i> , 2014, 6, 1801-1807.	1.0	14
124	The importance of evaluating the real metal concentration in nanoparticles post-synthesis for their applications: A case-study using silver nanoparticles. <i>Talanta</i> , 2016, 146, 795-800.	2.9	14
125	Dissolved arsenic in the upper Paraguay River basin and Pantanal wetlands. <i>Science of the Total Environment</i> , 2019, 687, 917-928.	3.9	14
126	Spatial-temporal variability of metal pollution across an industrial district, evidencing the environmental inequality in São Paulo. <i>Environmental Pollution</i> , 2020, 263, 114583.	3.7	14

#	ARTICLE	IF	CITATIONS
127	A sequential injection system for indirect spectrophotometric determination of lactic acid in yogurt and fermented mash samples. <i>Microchemical Journal</i> , 2010, 96, 151-156.	2.3	13
128	When a picture is worth a thousand words: Molecular and elemental imaging applied to environmental analysis – A review. <i>Microchemical Journal</i> , 2021, 169, 106526.	2.3	13
129	Direct Analysis of Coffee and Tea for Aluminium Determination by Electrothermal Atomic Absorption Spectrometry. <i>Mikrochimica Acta</i> , 1999, 132, 95-100.	2.5	12
130	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> , 2002, 57, 1259-1276.	1.5	12
131	Thermospray nebulization for flame furnace atomic absorption spectrometry – Correlations between spray formation and cadmium analytical sensitivity. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 89-94.	1.5	12
132	Evaluation of Fe uptake and translocation in transgenic and non-transgenic soybean plants using enriched stable ⁵⁷ Fe as a tracer. <i>Metallomics</i> , 2014, 6, 1832-1840.	1.0	12
133	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> , 2014, 104, 94-103.	1.2	12
134	Metal ions bound to the human milk immunoglobulin A: Metalloproteomic approach. <i>Food Chemistry</i> , 2015, 166, 492-497.	4.2	12
135	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> , 2016, 125, 87-97.	2.0	12
136	Ultrasonic-based membrane aided sample preparation of urine proteomes. <i>Talanta</i> , 2018, 178, 864-869.	2.9	12
137	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> , 2021, 224, 121808.	2.9	12
138	Determinação de cromo (VI) por espectrometria de absorção atômica com chama após a extração e pré-concentração no ponto nuvem. <i>Ecletica Química</i> , 2006, 31, 73-80.	0.2	12
139	There is plenty of room at the plant science: A review of nanoparticles applied to plant cultures. <i>Annals of Applied Biology</i> , 2021, 178, 149-168.	1.3	11
140	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> , 2004, 62, 619-626.	2.9	10
141	Determination of tin and lead in sediment slurries by graphite furnace atomic absorption spectrometry. <i>Mikrochimica Acta</i> , 2009, 164, 445-451.	2.5	10
142	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> , 2016, 939, 1-9.	2.6	10
143	Minimalist strategies applied to analysis of forensic samples using elemental and molecular analytical techniques – A review. <i>Analytica Chimica Acta</i> , 2019, 1063, 9-17.	2.6	10
144	Metallomics-based platforms for comparing the human blood serum profiles between bipolar disorder and schizophrenia patients. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8698.	0.7	10

#	ARTICLE	IF	CITATIONS
145	Selenium biofortification on garlic growth and other nutrients accumulation. <i>Horticultura Brasileira</i> , 2019, 37, 294-301.	0.1	10
146	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> , 2021, 68, 126872.	1.5	10
147	Use of experimental design in the optimisation of a solid phase preconcentration system for Cobalt determination by GFAAS. <i>Eletica Quimica</i> , 2005, 30, 65-74.	0.2	9
148	Total content and in vitro bioaccessibility of tellurium in Brazil nuts. <i>Journal of Trace Elements in Medicine and Biology</i> , 2018, 48, 46-51.	1.5	9
149	In vitro gastrointestinal digestion to evaluate the total, bioaccessible and bioavailable concentrations of iron and manganese in aÃ§aÃ-(Euterpe oleracea Mart.) pulps. <i>Journal of Trace Elements in Medicine and Biology</i> , 2019, 53, 27-33.	1.5	9
150	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> , 2020, 202, 110918.	2.9	9
151	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> , 2022, 71, 126964.	1.5	9
152	Determination of Sb(III) and Total Sb in Antileishmanial Drugs by Spectrophotometric FlowâInjection Hydride Generation. <i>Analytical Letters</i> , 2006, 39, 543-554.	1.0	8
153	On-line bi-directional electrostacking for As speciation/preconcentration using electrothermal atomic absorption spectrometry. <i>Talanta</i> , 2007, 71, 353-358.	2.9	8
154	Improvements in cobalt determination by thermospray flame furnace atomic absorption spectrometry using an on-line derivatization strategy. <i>Talanta</i> , 2008, 76, 475-478.	2.9	8
155	Ion mobility spectrometry focusing on speciation analysis of metals/metalloids bound to carbonic anhydrase. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7653-7660.	1.9	8
156	Evaluation of differential protein expression in <i>Haliclona aquarius</i> and sponge-associated microorganisms under cadmium stress. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7661-7670.	1.9	8
157	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> , 2019, 7, 416.	1.8	8
158	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> , 2020, 34, e8798.	0.7	8
159	Atomic spectrometry based on metallic tube atomizers heated by flame: Innovative strategies from fundamentals to analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009, 64, 477-481.	1.5	7
160	Determination of Se using a solid-phase micro-extraction device coupled to a graphite furnace and detection by gas chromatography-mass spectrometry. <i>Analyst</i> , 2012, 137, 3841.	1.7	7
161	Sample preparation focusing on plant proteomics: extraction, evaluation and identification of proteins from sunflower seeds. <i>Analytical Methods</i> , 2013, 5, 116-123.	1.3	7
162	Proteomic analysis of <i>Chromobacterium violaceum</i> and its adaptability to stress. <i>BMC Microbiology</i> , 2015, 15, 272.	1.3	7

#	ARTICLE	IF	CITATIONS
163	Chemical Speciation and Metallomics. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1055, 183-211.	0.8	7
164	Unravelling neurological disorders through metallomics-based approaches. <i>Metallomics</i> , 2020, 12, 1878-1896.	1.0	7
165	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> , 2017, 418, 6-14.	0.7	6
166	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> , 2022, 37, 795-804.	1.6	6
167	Speciomics as a concept involving chemical speciation and omics. <i>Journal of Proteomics</i> , 2022, 263, 104615.	1.2	6
168	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> , 1997, 8, 39.	0.6	5
169	Exploratory analysis of Lâ€™™vov platform surfaces for electrothermal atomic absorption spectrometry by using three-way chemometric tools. <i>Analytica Chimica Acta</i> , 2003, 495, 177-193.	2.6	5
170	Influence of microwave heating on fluoride, chloride, nitrate and sulfate concentrations in water. <i>Talanta</i> , 2011, 85, 2707-2710.	2.9	5
171	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> , 2013, 117, 543-548.	2.9	5
172	Mobility of polyvinylpyrrolidone coated silver nanoparticles in tropical soils. <i>Chemosphere</i> , 2018, 194, 543-552.	4.2	5
173	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> , 2018, 40, 201-205.	0.4	5
174	Benchmark and Handheld Energy-Dispersive X-Ray Fluorescence (EDXRF) as Alternative for Selenium Concentration Measurement in Biofortified Broccoli Seedling. <i>Food Analytical Methods</i> , 2019, 12, 1520-1527.	1.3	5
175	Electrophoresis and spectrometric analyses of adaptation-related proteins in thermally stressed <i>Chromobacterium violaceum</i> . <i>Genetics and Molecular Research</i> , 2013, 12, 5057-5071.	0.3	5
176	Emprego da amostragem de suspensão na determinação de Cu e Zn em lapa antártica e Ni em sedimento de rio por espectrometria de absorção atômica com chama. <i>Química Nova</i> , 2001, 24, 756.	0.3	4
177	<i>Arabidopsis thaliana</i> and omics approaches: a review. <i>Journal of Integrated OMICS</i> , 2015, 5, .	0.5	4
178	Sample Preparation Focusing on Plant Omics. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1073, 161-185.	0.8	4
179	Experimentos didáticos em química analítica envolvendo separação de fases e pré-concentração. <i>Química Nova</i> , 2002, 25, 483-489.	0.3	4
180	Exploratory Analysis of Micrographic Teflon Images. <i>Mikrochimica Acta</i> , 2001, 136, 55-60.	2.5	3

#	ARTICLE	IF	CITATIONS
181	Modern Strategies for Environmental Sample Preparation and Analysis. , 2004, , 37-68.		3
182	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. Analytica Chimica Acta, 2005, 530, 299-305.	2.6	3
183	Slurry analysis by multichannel arc/spark emission spectrometry using a monosegmented system: Determination of aluminium in sediments. Laboratory Robotics and Automation, 2000, 12, 46-52.	0.3	2
184	Incorporation of ⁶⁷ Zn and ⁶⁸ Zn into carbonic anhydrase: effects on isotope enrichment and enzymatic aspects. Journal of Analytical Atomic Spectrometry, 2017, 32, 1473-1480.	1.6	2
185	In vitro bioaccessibility of metals from tape tea " A low-cost emerging drug. Journal of Trace Elements in Medicine and Biology, 2020, 62, 126613.	1.5	2
186	Ionomics and lipidomics for evaluating the transgenic (cp4-EPSPS gene) and non-transgenic soybean seed generations. Microchemical Journal, 2021, 165, 106130.	2.3	2
187	Evaluation of the aluminum migration from metallic seals to coffee beverage after using a high-pressure coffee pod machine. Journal of Food Composition and Analysis, 2021, 104, 104131.	1.9	2
188	(Bio)Analytical research in Latin America. Analytical and Bioanalytical Chemistry, 2013, 405, 7561-7562.	1.9	1
189	Laser Chemical Elemental Analysis: From Total to Images. , 0, , .		1
190	Cloud point method applied to the Apolipoprotein A-I extraction from human plasma and its identification by tandem mass spectrometry. Journal of Integrated OMICS, 2011, 1, .	0.5	0
191	Comparative Studies Involving Transgenic and Non-Transgenic Soybean: What is Going On?. , 2013, , .		0
192	Microwave-Assisted Sample Preparation Focusing on "Omics" Areas. , 2014, , 313-343.		0
193	Applications of smartphones in analysis: Challenges and solutions. , 2021, , 199-248.		0
194	BrJAC 10 Years. Brazilian Journal of Analytical Chemistry, 2021, 8, 1-2.	0.3	0
195	Informa"ões essenciais para a caracteriza"o de um sistema de an"lise em fluxo. Quimica Nova, 2005, 28, 739-742.	0.3	0
196	"Quo vadis", Analytical Chemistry?. Brazilian Journal of Analytical Chemistry, 2019, 5, 1-1.	0.3	0
197	A Contribution to the Analytical Proteomics of Human Intestinal Mucus: Sampling, Sample Preparation, and Protein Identification Strategies. Brazilian Journal of Analytical Chemistry, 2020, , .	0.3	0
198	BrJAC mourns the death of Prof. Dr. Miguel Valc"rcel Cases and recognizes his great contribution to Analytical Chemistry and Science around the World. Brazilian Journal of Analytical Chemistry, 2022, 9, .	0.3	0

#	ARTICLE	IF	CITATIONS
199	Exploring ICP-MS as a versatile technique: From imaging to chemical speciation analysis. <i>Comprehensive Analytical Chemistry</i> , 2022, , .	0.7	0
200	Qualitative imaging of elemental spatial distribution in stalagmites through laser ablation inductively coupled plasma mass spectrometry analysis. <i>Brazilian Journal of Analytical Chemistry</i> , 2022, , .	0.3	0