

# Fabio Duarte

## List of Publications by Citations

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111  
papers

2,164  
citations

27  
h-index

41  
g-index

116  
ext. papers

2,475  
ext. citations

4.9  
avg, IF

4.89  
L-index

#	Paper	IF	Citations
111	Sulfur removal from hydrotreated petroleum fractions using ultrasound-assisted oxidative desulfurization process. <i>Fuel</i> , <b>2011</b> , 90, 2158-2164	7.1	133
110	Analytical methods for the determination of halogens in bioanalytical sciences: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2013</b> , 405, 7615-42	4.4	117
109	Ultrasound-assisted oxidative process for sulfur removal from petroleum product feedstock. <i>Ultrasonics Sonochemistry</i> , <b>2009</b> , 16, 732-6	8.9	82
108	Chlorine and sulfur determination in extra-heavy crude oil by inductively coupled plasma optical emission spectrometry after microwave-induced combustion. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2009</b> , 64, 554-558	3.1	80
107	Simultaneous determination of pesticides and 5-hydroxymethylfurfural in honey by the modified QuEChERS method and liquid chromatography coupled to tandem mass spectrometry. <i>Talanta</i> , <b>2012</b> , 99, 380-6	6.2	74
106	Determination of toxic elements in coal by ICP-MS after digestion using microwave-induced combustion. <i>Talanta</i> , <b>2010</b> , 83, 364-9	6.2	57
105	Chloride determination by ion chromatography in petroleum coke after digestion by microwave-induced combustion. <i>Journal of Chromatography A</i> , <b>2008</b> , 1213, 249-52	4.5	53
104	Are antifouling paint particles a continuous source of toxic chemicals to the marine environment?. <i>Journal of Hazardous Materials</i> , <b>2017</b> , 330, 76-82	12.8	50
103	Determination of cadmium and lead at sub-ppt level in soft drinks: An efficient combination between dispersive liquid-liquid microextraction and graphite furnace atomic absorption spectrometry. <i>Food Chemistry</i> , <b>2017</b> , 221, 907-912	8.5	48
102	As, Hg, I, Sb, Se and Sn speciation in body fluids and biological tissues using hyphenated-ICP-MS techniques: A review. <i>International Journal of Mass Spectrometry</i> , <b>2011</b> , 307, 149-162	1.9	48
101	Determination of elemental impurities in pharmaceutical products and related matrices by ICP-based methods: a review. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 4547-66	4.4	48
100	Bromine and iodine determination in active pharmaceutical ingredients by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2012</b> , 27, 1889	3.7	46
99	Feasibility of Microwave-Induced Combustion for Digestion of Crude Oil Vacuum Distillation Residue for Chlorine Determination. <i>Energy &amp; Fuels</i> , <b>2009</b> , 23, 6015-6019	4.1	44
98	Seafood digestion by microwave-induced combustion for total arsenic determination by atomic spectrometry techniques with hydride generation. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2009</b> , 24, 224-227	3.7	44
97	Delayed biochemical changes induced by mercury intoxication are prevented by zinc pre-exposure. <i>Ecotoxicology and Environmental Safety</i> , <b>2011</b> , 74, 480-6	7	43
96	Arsenic speciation in white wine by LCICPMS. <i>Food Chemistry</i> , <b>2011</b> , 126, 1406-1411	8.5	41
95	Determination of trace elements in fluoropolymers after microwave-induced combustion. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 374-80	7.8	39

94	Dispersive liquid-liquid microextraction: An efficient approach for the extraction of Cd and Pb from honey and determination by flame atomic absorption spectrometry. <i>Microchemical Journal</i> , <b>2015</b> , 123, 211-217	4.8	38
93	Antifouling paint particles: Sources, occurrence, composition and dynamics. <i>Water Research</i> , <b>2018</b> , 137, 47-56	12.5	38
92	Assessment of modified matrix solid-phase dispersion as sample preparation for the determination of CH <sub>3</sub> Hg <sup>+</sup> and Hg <sup>2+</sup> in fish. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 5015-22	7.8	38
91	Feasibility of dispersive liquid-liquid microextraction for extraction and preconcentration of Cu and Fe in red and white wine and determination by flame atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2015</b> , 105, 136-140	3.1	37
90	Organic, inorganic and total mercury determination in fish by chemical vapor generation with collection on a gold gauze and electrothermal atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2009</b> , 64, 513-519	3.1	35
89	Feasibility of halogen determination in noncombustible inorganic matrices by ion chromatography after a novel volatilization method using microwave-induced combustion. <i>Talanta</i> , <b>2016</b> , 147, 76-81	6.2	32
88	Evaluation of Hg species after culinary treatments of fish. <i>Food Control</i> , <b>2015</b> , 47, 413-419	6.2	31
87	Ultrasound-assisted extraction of rare-earth elements from carbonatite rocks. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 40, 24-29	8.9	31
86	Evaluation of drying conditions of fish tissues for inorganic mercury and methylmercury speciation analysis. <i>Microchemical Journal</i> , <b>2013</b> , 108, 53-59	4.8	31
85	Algae of economic importance that accumulate cadmium and lead: a review. <i>Revista Brasileira De Farmacognosia</i> , <b>2012</b> , 22, 825-837	2	30
84	Ultrasound-assisted acid hydrolysis of cellulose to chemical building blocks: Application to furfural synthesis. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 40, 81-88	8.9	26
83	Investigation of major and trace element distribution in the extraction-transesterification process of fatty acid methyl esters from microalgae <i>Chlorella</i> sp. <i>Bioresource Technology</i> , <b>2012</b> , 110, 730-4	11	26
82	The synergic effect of microwave and ultraviolet radiation for chocolate digestion and further determination of As, Cd, Ni and Pb by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 523-530	3.7	25
81	Feasibility of microwave-induced combustion for trace element determination in <i>Engraulis anchoita</i> by ICP-MS. <i>Food Chemistry</i> , <b>2014</b> , 145, 927-31	8.5	25
80	Determination of bromine, fluorine and iodine in mineral supplements using pyrohydrolysis for sample preparation. <i>Journal of the Brazilian Chemical Society</i> , <b>2012</b> , 23, 488-495	1.5	25
79	A feasible method for As speciation in several types of seafood by LC-ICP-MS/MS. <i>Food Chemistry</i> , <b>2018</b> , 255, 340-347	8.5	24
78	ZnCl <sub>2</sub> exposure protects against behavioral and acetylcholinesterase changes induced by HgCl <sub>2</sub> . <i>International Journal of Developmental Neuroscience</i> , <b>2009</b> , 27, 459-68	2.7	24
77	Simultaneous determination of iron and nickel in fluoropolymers by solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , <b>2016</b> , 160, 454-460	6.2	24

76	Determination of halogens and sulfur in pitch from crude oil by plasma-based techniques after microwave-induced combustion. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 1822-1827	3.7	22
75	Evaluation of liquid chromatography inductively coupled plasma mass spectrometry for arsenic speciation in water from industrial treatment of shale. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2007</b> , 62, 978-984	3.1	21
74	Rare earth element determination in heavy crude oil by USN-ICP-MS after digestion using a microwave-assisted single reaction chamber. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 1185-1191	3.7	21
73	Determination of toxic elements in yerba mate by ICP-MS after diluted acid digestion under O pressure. <i>Food Chemistry</i> , <b>2018</b> , 263, 37-41	8.5	19
72	Feasibility of nut digestion using single reaction chamber for further trace element determination by ICP-OES. <i>Microchemical Journal</i> , <b>2014</b> , 116, 255-260	4.8	19
71	Preparo de amostras de combustíveis fósseis por pirólise para a determinação de flúor e cloro. <i>Química Nova</i> , <b>2010</b> , 33, 1130-1134	1.6	18
70	A simple, rapid and low cost reversed-phase dispersive liquid-liquid microextraction for the determination of Na, K, Ca and Mg in biodiesel. <i>Talanta</i> , <b>2019</b> , 199, 1-7	6.2	18
69	Prepubertal exposure to low doses of sodium arsenite impairs spermatogenesis and epididymal histophysiology in rats. <i>Environmental Toxicology</i> , <b>2019</b> , 34, 83-91	4.2	18
68	Strategies for the determination of trace and toxic elements in pitch: Evaluation of combustion and wet digestion methods for sample preparation. <i>Fuel</i> , <b>2016</b> , 163, 175-179	7.1	17
67	Analysis of indium (III) adsorption from leachates of LCD screens using artificial neural networks (ANN) and adaptive neuro-fuzzy inference systems (ANIFS). <i>Journal of Hazardous Materials</i> , <b>2020</b> , 384, 121137	12.8	17
66	Determination of bromine and iodine in edible flours by inductively coupled plasma mass spectrometry after microwave-induced combustion. <i>Microchemical Journal</i> , <b>2017</b> , 133, 246-250	4.8	15
65	Simple and fast method for iron determination in white and red wines using dispersive liquid-liquid microextraction and ultraviolet-visible spectrophotometry. <i>Journal of Agricultural and Food Chemistry</i> , <b>2014</b> , 62, 8340-5	5.7	15
64	Comparison of matrix solid-phase dispersion and modified QuEChERS methods for extraction of pesticide residues from onion. <i>Analytical Methods</i> , <b>2012</b> , 4, 1820	3.2	15
63	Determination of trace elements in raw material for polyurethane production using direct sampling graphite furnace atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2014</b> , 29, 324-331	3.7	13
62	High purity polyimide analysis by solid sampling graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2017</b> , 129, 42-48	3.1	12
61	Adaptive neuro-fuzzy inference system (ANIFS) and artificial neural network (ANN) applied for indium (III) adsorption on carbonaceous materials. <i>Chemical Engineering Communications</i> , <b>2019</b> , 206, 1452-1462 <sup>12</sup>	2.2	12
60	Coconut agro-industrial waste in the production of catalyst containing palladium: The report of a mini-project for teaching of sustainable Suzuki-Miyaura reaction. <i>Journal of Cleaner Production</i> , <b>2018</b> , 185, 342-346	10.3	12
59	A method for the determination of multiclass pesticides in sugarcane juice employing QuEChERS and LC-ESI-MS/MS. <i>Analytical Methods</i> , <b>2013</b> , 5, 2028	3.2	12

58	Development of a fast screening method for the direct determination of chlorinated persistent organic pollutants in fish oil by high-resolution continuum source graphite furnace molecular absorption spectrometry. <i>Food Control</i> , <b>2017</b> , 78, 456-462	6.2	11
57	Assessment of dispersive liquid-liquid microextraction for the simultaneous extraction, preconcentration, and derivatization of Hg <sup>2+</sup> and CH <sub>3</sub> Hg <sup>+</sup> for further determination by GC-MS. <i>Journal of Separation Science</i> , <b>2013</b> , 36, 3411-8	3.4	11
56	Rapid microplate, green method for high-throughput evaluation of vinegar acidity using thermal infrared enthalpimetry. <i>Food Chemistry</i> , <b>2017</b> , 215, 17-21	8.5	11
55	Assessment of inorganic contaminants in golden mussel ( <i>Limnoperna fortunei</i> ) in Southern Brazil. <i>Journal of the Brazilian Chemical Society</i> , <b>2012</b> , 23, 846-853	1.5	11
54	Development of a dispersive liquid-liquid microextraction method for iron extraction and preconcentration in water samples with different salinities. <i>Analytical Methods</i> , <b>2013</b> , 5, 2273	3.2	11
53	Microwave-induced combustion of high purity nuclear flexible graphite for the determination of potentially embrittling elements using atomic spectrometric techniques. <i>Microchemical Journal</i> , <b>2016</b> , 124, 321-325	4.8	10
52	Determina�o espectrofotom�trica de cloreto em cimento ap�s preparo de amostra por piroidr�se. <i>Quimica Nova</i> , <b>2013</b> , 36, 716-719	1.6	10
51	Degradation of herbicide diuron in water employing the Fe <sub>0</sub> /H <sub>2</sub> O <sub>2</sub> system. <i>Journal of the Brazilian Chemical Society</i> , <b>2010</b> , 21, 2347-2352	1.5	10
50	Multielement determination in medicinal plants using electrothermal vaporization coupled to ICP OES. <i>Analytical Methods</i> , <b>2017</b> , 9, 3497-3504	3.2	9
49	Direct sampling graphite furnace atomic absorption spectrometry - feasibility of Na and K determination in desalted crude oil. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2018</b> , 141, 28-33	3.1	9
48	Biosorption of silver from aqueous solutions using wine industry wastes. <i>Chemical Engineering Communications</i> , <b>2018</b> , 205, 325-337	2.2	9
47	Effect of wheat bran and flaxseed on cadmium effects and retention in rats. <i>Human and Experimental Toxicology</i> , <b>2011</b> , 30, 981-91	3.4	9
46	Influence of cereal bran supplement on cadmium effects in growing rats. <i>Human and Experimental Toxicology</i> , <b>2010</b> , 29, 467-76	3.4	9
45	Ultrasound-Assisted Extraction of Cr from Residual Tannery Leather: Feasibility of Ethylenediaminetetraacetic Acid as the Extraction Solution. <i>ACS Omega</i> , <b>2018</b> , 3, 16074-16080	3.9	9
44	Brazil nut improves the oxidative metabolism of superoxide-hydrogen peroxide chemically-imbalanced human fibroblasts in a nutrigenomic manner. <i>Food and Chemical Toxicology</i> , <b>2018</b> , 121, 519-526	4.7	9
43	Determination of Br, Cl and I in honey using ICP-based techniques following microwave-assisted wet digestion with alkaline H <sub>2</sub> O <sub>2</sub> in a single reaction chamber. <i>Analytical Methods</i> , <b>2017</b> , 9, 649-654	3.2	8
42	Arsenic determination in marine sediment using ultrasound for sample preparation. <i>Analytical Sciences</i> , <b>2007</b> , 23, 1097-101	1.7	8
41	New possibilities for pharmaceutical excipients analysis: Combustion combined with pyrohydrolysis system for further total chlorine determination by ICP-OES. <i>Talanta</i> , <b>2019</b> , 199, 124-130	6.2	7

40	Magnesium and calcium determination in desalted crude oil by direct sampling graphite furnace atomic absorption spectrometry. <i>Fuel</i> , <b>2019</b> , 236, 1483-1488	7.1	7
39	Iodine Status of Brazilian School-Age Children: A National Cross-Sectional Survey. <i>Nutrients</i> , <b>2020</b> , 12,	6.7	6
38	Investigating essential and toxic elements in Antarctic macroalgae using a green analytical method. <i>Journal of Applied Phycology</i> , <b>2017</b> , 29, 741-749	3.2	6
37	Environmentally friendly system for the degradation of multipesticide residues in aqueous media by the Fenton's reaction. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 584-92	5.1	6
36	Arsenic speciation analysis in rice milk using LC-ICP-MS. <i>Food Chemistry: X</i> , <b>2019</b> , 2, 100028	4.7	5
35	Microwave-assisted solid sampling system for Hg determination in polymeric samples using FF-AAS. <i>Microchemical Journal</i> , <b>2019</b> , 147, 463-468	4.8	5
34	An in situ pre-concentration method for fluorine determination based on successive digestions by microwave-induced combustion. <i>Talanta</i> , <b>2019</b> , 194, 314-319	6.2	5
33	Infrared thermal imaging combined with paper microzone plates and natural reagent extracts for simple, fast, and green enthalpimetric analysis. <i>Talanta</i> , <b>2019</b> , 204, 266-271	6.2	4
32	A novel strategy for medical foods digestion and subsequent elemental determination using inductively coupled plasma optical emission spectrometry. <i>Microchemical Journal</i> , <b>2019</b> , 147, 1055-1060	4.8	4
31	Open source, low-cost device for thermometric titration with non-contact temperature measurement. <i>Talanta</i> , <b>2020</b> , 216, 120975	6.2	4
30	Feasibility of DS-GF AAS for the determination of metallic impurities in raw material for polymers production. <i>Talanta</i> , <b>2020</b> , 218, 121129	6.2	4
29	Bioavailability of Hg and Se from seafood after culinary treatments. <i>Microchemical Journal</i> , <b>2018</b> , 139, 363-371	4.8	4
28	Miniaturized, high-throughput and green determination of the saponification value of edible oils using thermal infrared enthalpimetry. <i>Analytical Methods</i> , <b>2018</b> , 10, 3770-3776	3.2	4
27	Low concentrations of sodium arsenite induce hepatotoxicity in prepubertal male rats. <i>Environmental Toxicology</i> , <b>2020</b> , 35, 553-560	4.2	4
26	Effects of substances released from a coal tar-based coating used to protect harbor structures on oysters. <i>Marine Pollution Bulletin</i> , <b>2021</b> , 166, 112221	6.7	4
25	Trace metal impurities determination in high-purity polyimide by plasma-based techniques. <i>Microchemical Journal</i> , <b>2019</b> , 146, 492-497	4.8	3
24	Limonin Derivatives: Synthesis Using Methodology in Solution and Heterogeneous Medium and Evaluation of the Antimicrobial Activity. <i>Journal of the Brazilian Chemical Society</i> , <b>2015</b> ,	1.5	3
23	Diphenyl diselenide modulates splenic purinergic signaling in silver catfish fed diets contaminated with fumonisin B: An attempt to improve immune and hemostatic responses. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2020</b> , 227, 108624	3.2	3

22	Microwave-based strategies for sample preparation and halogen determination in blood using ICP-MS. <i>Talanta</i> , <b>2021</b> , 226, 122157	6.2	3
21	Microwave-Induced Combustion of Coal for Further Sulfur Determination by Inductively Coupled Plasma Optical Emission Spectrometry or Ion Chromatography. <i>Journal of the Brazilian Chemical Society</i> , <b>2016</b> ,	1.5	3
20	Infrared enthalpymetric methods: A new, fast and simple alternative for sodium determination in food sauces. <i>Food Chemistry</i> , <b>2020</b> , 305, 125456	8.5	3
19	Determination of Cl, Br and I in granola: Development of an accurate analytical method using ICP-MS. <i>Food Chemistry</i> , <b>2021</b> , 344, 128677	8.5	3
18	Palladium nanoparticle biosynthesis via Yerba Mate ( <i>Ilex paraguariensis</i> ) extract: an efficient eco-friendly catalyst for SuzukiMiyaura reactions. <i>SN Applied Sciences</i> , <b>2021</b> , 3, 1	1.8	3
17	Leaching of rare earth elements from phosphogypsum.. <i>Chemosphere</i> , <b>2022</b> , 301, 134661	8.4	3
16	Diphenyl diselenide dietary supplementation protects against fumonisin B-induced oxidative stress in brains of the silver catfish <i>Rhamdia quelen</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , <b>2020</b> , 231, 108738	3.2	2
15	Microwave-Assisted Extraction <b>2014</b> , 231-251		2
14	A Novel Method for Chlorine and Sulfur Determination in Gluten-Free and Gluten-Containing Edible Flours from Different Raw Materials and Countries. <i>Food Analytical Methods</i> , <b>2020</b> , 13, 1799-1805	3.4	2
13	Microwave-Induced Combustion in Disposable Vessels: A Novel Perspective for Sample Digestion. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 8058-8063	7.8	1
12	<i>Ilex Paraguariensis</i> exposition to As and Cd in a closed soilless system. <i>Chemosphere</i> , <b>2020</b> , 258, 127284	8.4	1
11	Direct Sampling Graphite Furnace Atomic Absorption Spectrometry [A Suitable Tool for the Determination of Metallic Contaminants in Pitch. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 1963-1969 <sup>1</sup>	5.1	1
10	Determination of trace elements in Sergio mirim: an evaluation of sample preparation methods and detection techniques. <i>Environmental Science and Pollution Research</i> , <b>2020</b> , 27, 21914-21923	5.1	1
9	Vortex-assisted matrix solid-phase dispersion: An eco-friendly alternative for the determination of halogens in edible seaweed.. <i>Talanta</i> , <b>2022</b> , 244, 123395	6.2	1
8	Microwave-induced self-ignition: An efficient approach for high purity graphite digestion and multitechnique halogen determination.. <i>Analytica Chimica Acta</i> , <b>2022</b> , 1199, 339569	6.6	0
7	Antifouling paint particles in soils: toxic impact that goes beyond the aquatic environment. <i>Ecotoxicology</i> , <b>2021</b> , 30, 1161-1169	2.9	0
6	A solid sampling approach for direct determination of Cl and S in flour by an elemental analyzer. <i>Food Chemistry</i> , <b>2021</b> , 344, 128671	8.5	0
5	Dried Blood Spot and Microwave-Induced Combustion in Disposable Vessels: A Successful Combination for Halogen Determination. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 2162-2169	5.1	0

4 24. Microwave-assisted sample preparation for organic analysis **2017**, 488-504

3 Avaliaç o funcional e histol gica da tireoide de ovinos suplementados com fluoreto de s dio por um per odo de 150 dias. *Arquivo Brasileiro De Medicina Veterinaria E Zootecnia*, **2009**, 61, 293-298

0.3

2 Microwave-assisted extraction of Cr from residual tanned leather: A promising alternative for waste treatment from tannery industry. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107081

6.8

1 Evaluation of Acetylcholinesterase and Prolyl Oligopeptidase Inhibition of Novel Amino acid-functionalized Stigmasterol and Ursolic Acid Derivatives. *Current Organic Chemistry*, **2019**, 23, 2131-2140

1.7