

# Fabio Duarte

## List of Publications by Year in descending order

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116  
papers

2,787  
citations

136950

32  
h-index

214800

47  
g-index

116  
all docs

116  
docs citations

116  
times ranked

2762  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-assisted extraction of Cr from residual tanned leather: A promising alternative for waste treatment from tannery industry. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107081.	6.7	2
2	Microwave-induced self-ignition: An efficient approach for high purity graphite digestion and multitechnique halogen determination. <i>Analytica Chimica Acta</i> , 2022, 1199, 339569.	5.4	2
3	Vortex-assisted matrix solid-phase dispersion: An eco-friendly alternative for the determination of halogens in edible seaweed. <i>Talanta</i> , 2022, 244, 123395.	5.5	3
4	Leaching of rare earth elements from phosphogypsum. <i>Chemosphere</i> , 2022, 301, 134661.	8.2	35
5	Determination of Cl, Br and I in granola: Development of an accurate analytical method using ICP-MS. <i>Food Chemistry</i> , 2021, 344, 128677.	8.2	8
6	Palladium nanoparticle biosynthesis via Yerba Mate ( <i>Ilex paraguariensis</i> ) extract: an efficient eco-friendly catalyst for Suzuki-Miyaura reactions. <i>SN Applied Sciences</i> , 2021, 3, 1.	2.9	6
7	Antifouling paint particles in soils: toxic impact that goes beyond the aquatic environment. <i>Ecotoxicology</i> , 2021, 30, 1161-1169.	2.4	3
8	Microwave-based strategies for sample preparation and halogen determination in blood using ICP-MS. <i>Talanta</i> , 2021, 226, 122157.	5.5	8
9	A solid sampling approach for direct determination of Cl and S in flour by an elemental analyzer. <i>Food Chemistry</i> , 2021, 344, 128671.	8.2	1
10	Effects of substances released from a coal tar-based coating used to protect harbor structures on oysters. <i>Marine Pollution Bulletin</i> , 2021, 166, 112221.	5.0	9
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> , 2021, 94, 1963-1969.	3.2	1
12	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> , 2021, 94, 2162-2169.	3.2	5
13	Infrared enthalpymetric methods: A new, fast and simple alternative for sodium determination in food sauces. <i>Food Chemistry</i> , 2020, 305, 125456.	8.2	5
14	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> , 2020, 384, 121137.	12.4	33
15	Diphenyl diselenide modulates splenic purinergic signaling in silver catfish fed diets contaminated with fumonisin B1: An attempt to improve immune and hemostatic responses. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 227, 108624.	2.6	5
16	Low concentrations of sodium arsenite induce hepatotoxicity in prepubertal male rats. <i>Environmental Toxicology</i> , 2020, 35, 553-560.	4.0	8
17	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> , 2020, 13, 1799-1805.	2.6	2
18	Open source, low-cost device for thermometric titration with non-contact temperature measurement. <i>Talanta</i> , 2020, 216, 120975.	5.5	7

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19	Microwave-Induced Combustion in Disposable Vessels: A Novel Perspective for Sample Digestion. <i>Analytical Chemistry</i> , 2020, 92, 8058-8063.	6.5	9
20	Feasibility of DS-GF AAS for the determination of metallic impurities in raw material for polymers production. <i>Talanta</i> , 2020, 218, 121129.	5.5	6
21	Ilex Paraguariensis exposition to As and Cd in a closed soilless system. <i>Chemosphere</i> , 2020, 258, 127284.	8.2	4
22	Diphenyl diselenide dietary supplementation protects against fumonisin B1-induced oxidative stress in brains of the silver catfish <i>Rhamdia quelen</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2020, 231, 108738.	2.6	5
23	Iodine Status of Brazilian School-Age Children: A National Cross-Sectional Survey. <i>Nutrients</i> , 2020, 12, 1077.	4.1	17
24	Determination of trace elements in Sergio mirim: an evaluation of sample preparation methods and detection techniques. <i>Environmental Science and Pollution Research</i> , 2020, 27, 21914-21923.	5.3	4
25	Nanostructured Systems Obtention Using LbL Self-Assembly or the Cysteine-Assisted Adsorption Method and Their Application as a Water Splitting Single Catalyst. <i>Journal of the Brazilian Chemical Society</i> , 2019, , .	0.6	1
26	Adaptive neuro-fuzzy inference system (ANIFS) and artificial neural network (ANN) applied for indium (III) adsorption on carbonaceous materials. <i>Chemical Engineering Communications</i> , 2019, 206, 1452-1462.	2.6	22
27	Infrared thermal imaging combined with paper microzone plates and natural reagent extracts for simple, fast, and green enthalpimetric analysis. <i>Talanta</i> , 2019, 204, 266-271.	5.5	6
28	Arsenic speciation analysis in rice milk using LC-ICP-MS. <i>Food Chemistry: X</i> , 2019, 2, 100028.	4.3	9
29	Microwave-assisted solid sampling system for Hg determination in polymeric samples using FF-AAS. <i>Microchemical Journal</i> , 2019, 147, 463-468.	4.5	7
30	A novel strategy for medical foods digestion and subsequent elemental determination using inductively coupled plasma optical emission spectrometry. <i>Microchemical Journal</i> , 2019, 147, 1055-1060.	4.5	10
31	Trace metal impurities determination in high-purity polyimide by plasma-based techniques. <i>Microchemical Journal</i> , 2019, 146, 492-497.	4.5	6
32	New possibilities for pharmaceutical excipients analysis: Combustion combined with pyrohydrolysis system for further total chlorine determination by ICP-OES. <i>Talanta</i> , 2019, 199, 124-130.	5.5	11
33	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> , 2019, 199, 1-7.	5.5	36
34	An in situ pre-concentration method for fluorine determination based on successive digestions by microwave-induced combustion. <i>Talanta</i> , 2019, 194, 314-319.	5.5	14
35	Prepubertal exposure to low doses of sodium arsenite impairs spermatogenesis and epididymal histophysiology in rats. <i>Environmental Toxicology</i> , 2019, 34, 83-91.	4.0	23
36	Magnesium and calcium determination in desalted crude oil by direct sampling graphite furnace atomic absorption spectrometry. <i>Fuel</i> , 2019, 236, 1483-1488.	6.4	15

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37	Evaluation of Acetylcholinesterase and Prolyl Oligopeptidase Inhibition of Novel Amino acid-functionalized Stigmasterol and Ursolic Acid Derivatives. <i>Current Organic Chemistry</i> , 2019, 23, 2131-2140.	1.6	0
38	Bioavailability of Hg and Se from seafood after culinary treatments. <i>Microchemical Journal</i> , 2018, 139, 363-371.	4.5	11
39	Antifouling paint particles: Sources, occurrence, composition and dynamics. <i>Water Research</i> , 2018, 137, 47-56.	11.3	64
40	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> , 2018, 141, 28-33.	2.9	16
41	A feasible method for As speciation in several types of seafood by LC-ICP-MS/MS. <i>Food Chemistry</i> , 2018, 255, 340-347.	8.2	36
42	Determination of toxic elements in yerba mate by ICP-MS after diluted acid digestion under O <sub>2</sub> pressure. <i>Food Chemistry</i> , 2018, 263, 37-41.	8.2	24
43	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> , 2018, 185, 342-346.	9.3	14
44	Ultrasound-assisted extraction of rare-earth elements from carbonatite rocks. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 24-29.	8.2	41
45	Ultrasound-assisted acid hydrolysis of cellulose to chemical building blocks: Application to furfural synthesis. <i>Ultrasonics Sonochemistry</i> , 2018, 40, 81-88.	8.2	33
46	Biosorption of silver from aqueous solutions using wine industry wastes. <i>Chemical Engineering Communications</i> , 2018, 205, 325-337.	2.6	11
47	Ultrasound-Assisted Extraction of Cr from Residual Tannery Leather: Feasibility of Ethylenediaminetetraacetic Acid as the Extraction Solution. <i>ACS Omega</i> , 2018, 3, 16074-16080.	3.5	12
48	Brazil nut improves the oxidative metabolism of superoxide-hydrogen peroxide chemically-imbalanced human fibroblasts in a nutrigenomic manner. <i>Food and Chemical Toxicology</i> , 2018, 121, 519-526.	3.6	10
49	Miniaturized, high-throughput and green determination of the saponification value of edible oils using thermal infrared enthalpimetry. <i>Analytical Methods</i> , 2018, 10, 3770-3776.	2.7	5
50	High purity polyimide analysis by solid sampling graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 42-48.	2.9	13
51	Are antifouling paint particles a continuous source of toxic chemicals to the marine environment?. <i>Journal of Hazardous Materials</i> , 2017, 330, 76-82.	12.4	78
52	Multielement determination in medicinal plants using electrothermal vaporization coupled to ICP OES. <i>Analytical Methods</i> , 2017, 9, 3497-3504.	2.7	11
53	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> , 2017, 78, 456-462.	5.5	11
54	Determination of bromine and iodine in edible flours by inductively coupled plasma mass spectrometry after microwave-induced combustion. <i>Microchemical Journal</i> , 2017, 133, 246-250.	4.5	17

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55	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> , 2017, 9, 649-654.	2.7	11
56	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> , 2017, 221, 907-912.	8.2	57
57	Rapid microplate, green method for high-throughput evaluation of vinegar acidity using thermal infrared enthalpimetry. <i>Food Chemistry</i> , 2017, 215, 17-21.	8.2	11
58	Investigating essential and toxic elements in Antarctic macroalgae using a green analytical method. <i>Journal of Applied Phycology</i> , 2017, 29, 741-749.	2.8	8
59	24. Microwave-assisted sample preparation for organic analysis. , 2017, , 488-504.		0
60	Feasibility of DLLME for the Extraction and Preconcentration of As and Cd in Sugar for Further Determination by ICP-MS. <i>Journal of the Brazilian Chemical Society</i> , 2017, , .	0.6	1
61	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> , 2016, , .	0.6	4
62	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> , 2016, 31, 1185-1191.	3.0	26
63	Determination of elemental impurities in pharmaceutical products and related matrices by ICP-based methods: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4547-4566.	3.7	72
64	Simultaneous determination of iron and nickel in fluoropolymers by solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. <i>Talanta</i> , 2016, 160, 454-460.	5.5	33
65	Strategies for the determination of trace and toxic elements in pitch: Evaluation of combustion and wet digestion methods for sample preparation. <i>Fuel</i> , 2016, 163, 175-179.	6.4	23
66	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> , 2016, 31, 523-530.	3.0	30
67	Feasibility of halogen determination in noncombustible inorganic matrices by ion chromatography after a novel volatilization method using microwave-induced combustion. <i>Talanta</i> , 2016, 147, 76-81.	5.5	40
68	Microwave-induced combustion of high purity nuclear flexible graphite for the determination of potentially embrittling elements using atomic spectrometric techniques. <i>Microchemical Journal</i> , 2016, 124, 321-325.	4.5	10
69	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> , 2015, 105, 136-140.	2.9	41
70	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> , 2015, 123, 211-217.	4.5	51
71	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> , 2015, 30, 1822-1827.	3.0	29
72	Evaluation of Hg species after culinary treatments of fish. <i>Food Control</i> , 2015, 47, 413-419.	5.5	36

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73	Limonin Derivatives: Synthesis Using Methodology in Solution and Heterogeneous Medium and Evaluation of the Antimicrobial Activity. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	4
74	PdCl <sub>2</sub> Immobilized in Polyacrylamide: a Low Cost and Eco-Friendly Catalyst for Suzuki-Miyaura Reactions. <i>Journal of the Brazilian Chemical Society</i> , 2015, , .	0.6	1
75	Feasibility of microwave-induced combustion for trace element determination in <i>Engraulis anchoita</i> by ICP-MS. <i>Food Chemistry</i> , 2014, 145, 927-931.	8.2	30
76	Feasibility of nut digestion using single reaction chamber for further trace element determination by ICP-OES. <i>Microchemical Journal</i> , 2014, 116, 255-260.	4.5	20
77	Environmentally friendly system for the degradation of multipesticide residues in aqueous media by the Fenton's reaction. <i>Environmental Science and Pollution Research</i> , 2014, 21, 584-592.	5.3	7
78	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> , 2014, 29, 324-331.	3.0	15
79	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> , 2014, 62, 8340-8345.	5.2	19
80	Microwave-Assisted Extraction. , 2014, , 231-251.		2
81	A method for the determination of multiclass pesticides in sugarcane juice employing QuEChERS and LC-ESI-MS/MS. <i>Analytical Methods</i> , 2013, 5, 2028.	2.7	13
82	Determination of Trace Elements in Fluoropolymers after Microwave-Induced Combustion. <i>Analytical Chemistry</i> , 2013, 85, 374-380.	6.5	46
83	Assessment of dispersive liquid-liquid microextraction for the simultaneous extraction, preconcentration, and derivatization of $\text{H}_2\text{O}_2$ and $\text{CH}_3\text{CHO}$ for further determination by GC-MS. <i>Journal of Separation Science</i> . 2013, 36, 3411-3418.	2.5	15
84	Analytical methods for the determination of halogens in bioanalytical sciences: a review. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7615-7642.	3.7	135
85	Development of a dispersive liquid-liquid microextraction method for iron extraction and preconcentration in water samples with different salinities. <i>Analytical Methods</i> , 2013, 5, 2273.	2.7	12
86	Assessment of Modified Matrix Solid-Phase Dispersion as Sample Preparation for the Determination of $\text{CH}_3\text{Hg}^+$ and $\text{Hg}^{2+}$ in Fish. <i>Analytical Chemistry</i> , 2013, 85, 5015-5022.	6.5	41
87	Evaluation of drying conditions of fish tissues for inorganic mercury and methylmercury speciation analysis. <i>Microchemical Journal</i> , 2013, 108, 53-59.	4.5	35
88	Determinação espectrofotométrica de cloreto em cimento após preparo de amostra por pirólise. <i>Química Nova</i> , 2013, 36, 716-719.	0.3	13
89	Algae of economic importance that accumulate cadmium and lead: a review. <i>Revista Brasileira De Farmacognosia</i> , 2012, 22, 825-837.	1.4	35
90	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> , 2012, 99, 380-386.	5.5	95

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91	Bromine and iodine determination in active pharmaceutical ingredients by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1889.	3.0	50
92	Comparison of matrix solid-phase dispersion and modified QuEChERS methods for extraction of pesticide residues from onion. <i>Analytical Methods</i> , 2012, 4, 1820.	2.7	16
93	Determination of bromine, fluorine and iodine in mineral supplements using pyrohydrolysis for sample preparation. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 488-495.	0.6	33
94	Assessment of inorganic contaminants in golden mussel ( <i>Limnoperna fortunei</i> ) in Southern Brazil. <i>Journal of the Brazilian Chemical Society</i> , 2012, 23, 846-853.	0.6	12
95	Investigation of major and trace element distribution in the extraction and transesterification process of fatty acid methyl esters from microalgae <i>Chlorella</i> sp.. <i>Bioresource Technology</i> , 2012, 110, 730-734.	9.6	32
96	Delayed biochemical changes induced by mercury intoxication are prevented by zinc pre-exposure. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 480-486.	6.0	50
97	Effect of wheat bran and flaxseed on cadmium effects and retention in rats. <i>Human and Experimental Toxicology</i> , 2011, 30, 981-991.	2.2	10
98	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> , 2011, 307, 149-162.	1.5	56
99	Arsenic speciation in white wine by LC-ICP-MS. <i>Food Chemistry</i> , 2011, 126, 1406-1411.	8.2	44
100	Sulfur removal from hydrotreated petroleum fractions using ultrasound-assisted oxidative desulfurization process. <i>Fuel</i> , 2011, 90, 2158-2164.	6.4	158
101	Degradation of herbicide diuron in water employing the Fe <sup>0</sup> /H <sub>2</sub> O <sub>2</sub> system. <i>Journal of the Brazilian Chemical Society</i> , 2010, 21, 2347-2352.	0.6	11
102	Preparo de amostras de combustíveis sólidos por pirólise para a determinação de flúor e cloro. <i>Química Nova</i> , 2010, 33, 1130-1134.	0.3	24
103	Influence of cereal bran supplement on cadmium effects in growing rats. <i>Human and Experimental Toxicology</i> , 2010, 29, 467-476.	2.2	10
104	Determination of toxic elements in coal by ICP-MS after digestion using microwave-induced combustion. <i>Talanta</i> , 2010, 83, 364-369.	5.5	60
105	Avaliação funcional e histológica da tireoide de ovinos suplementados com fluoreto de sódio por um período de 150 dias. <i>Arquivo Brasileiro De Medicina Veterinaria E Zootecnia</i> , 2009, 61, 293-298.	0.4	0
106	Ultrasound-assisted oxidative process for sulfur removal from petroleum product feedstock. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 732-736.	8.2	101
107	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> , 2009, 64, 554-558.	2.9	88
108	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> , 2009, 64, 513-519.	2.9	36

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109	Feasibility of Microwave-Induced Combustion for Digestion of Crude Oil Vacuum Distillation Residue for Chlorine Determination. <i>Energy &amp; Fuels</i> , 2009, 23, 6015-6019.	5.1	44
110	ZnCl <sub>2</sub> exposure protects against behavioral and acetylcholinesterase changes induced by HgCl <sub>2</sub> . <i>International Journal of Developmental Neuroscience</i> , 2009, 27, 459-468.	1.6	27
111	Seafood digestion by microwave-induced combustion for total arsenic determination by atomic spectrometry techniques with hydride generation. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 224-227.	3.0	49
112	Chloride determination by ion chromatography in petroleum coke after digestion by microwave-induced combustion. <i>Journal of Chromatography A</i> , 2008, 1213, 249-252.	3.7	68
113	Arsenic Determination in Marine Sediment Using Ultrasound for Sample Preparation. <i>Analytical Sciences</i> , 2007, 23, 1097-1101.	1.6	8
114	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> , 2007, 62, 978-984.	2.9	23
115	A Novel Thermal Infrared Enthalpimetric Method for Fast, High-Throughput Determination of the Content Uniformity of Captopril Tablets. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	1
116	Thermal Infrared Enthalpimetry Method for the Determination of Hypochlorite in Bleaching Solutions. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0