Fabio Duarte

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7823398/publications.pdf

Version: 2024-02-01

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	Sulfur removal from hydrotreated petroleum fractions using ultrasound-assisted oxidative desulfurization process. Fuel, 2011, 90, 2158-2164.	6.4	158
2	Analytical methods for the determination of halogens in bioanalytical sciences: a review. Analytical and Bioanalytical Chemistry, 2013, 405, 7615-7642.	3.7	135
3	Ultrasound-assisted oxidative process for sulfur removal from petroleum product feedstock. Ultrasonics Sonochemistry, 2009, 16, 732-736.	8.2	101
4	Simultaneous determination of pesticides and 5-hydroxymethylfurfural in honey by the modified QuEChERS method and liquid chromatography coupled to tandem mass spectrometry. Talanta, 2012, 99, 380-386.	5.5	95
5	Chlorine and sulfur determination in extra-heavy crude oil by inductively coupled plasma optical emission spectrometry after microwave-induced combustion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 554-558.	2.9	88
6	Are antifouling paint particles a continuous source of toxic chemicals to the marine environment?. Journal of Hazardous Materials, 2017, 330, 76-82.	12.4	78
7	Determination of elemental impurities in pharmaceutical products and related matrices by ICP-based methods: a review. Analytical and Bioanalytical Chemistry, 2016, 408, 4547-4566.	3.7	72
8	Chloride determination by ion chromatography in petroleum coke after digestion by microwave-induced combustion. Journal of Chromatography A, 2008, 1213, 249-252.	3.7	68
9	Antifouling paint particles: Sources, occurrence, composition and dynamics. Water Research, 2018, 137, 47-56.	11.3	64
10	Determination of toxic elements in coal by ICP-MS after digestion using microwave-induced combustion. Talanta, 2010, 83, 364-369.	5.5	60
11	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. Food Chemistry, 2017, 221, 907-912.	8.2	57
12	As, Hg, I, Sb, Se and Sn speciation in body fluids and biological tissues using hyphenated-ICP-MS techniques: A review. International Journal of Mass Spectrometry, 2011, 307, 149-162.	1.5	56
13	Dispersive liquidâ€“liquid microextraction: An efficient approach for the extraction of Cd and Pb from honey and determination by flame atomic absorption spectrometry. Microchemical Journal, 2015, 123, 211-217.	4.5	51
14	Delayed biochemical changes induced by mercury intoxication are prevented by zinc pre-exposure. Ecotoxicology and Environmental Safety, 2011, 74, 480-486.	6.0	50
15	Bromine and iodine determination in active pharmaceutical ingredients by ICP-MS. Journal of Analytical Atomic Spectrometry, 2012, 27, 1889.	3.0	50
16	Seafood digestion by microwave-induced combustion for total arsenic determination by atomic spectrometry techniques with hydride generation. Journal of Analytical Atomic Spectrometry, 2009, 24, 224-227.	3.0	49
17	Determination of Trace Elements in Fluoropolymers after Microwave-Induced Combustion. Analytical Chemistry, 2013, 85, 374-380.	6.5	46
18	Feasibility of Microwave-Induced Combustion for Digestion of Crude Oil Vacuum Distillation Residue for Chlorine Determination. Energy & Fuels, 2009, 23, 6015-6019.	5.1	44

#	Article	IF	Citations
19	Arsenic speciation in white wine by LCâ€“ICPâ€“MS. Food Chemistry, 2011, 126, 1406-1411.	8.2	44
20	Assessment of Modified Matrix Solid-Phase Dispersion as Sample Preparation for the Determination of CH₃Hg⁺ and Hg²⁺ in Fish. Analytical Chemistry, 2013, 85, 5015-5022.	6.5	41
21	Feasibility of dispersive liquidâ€“liquid microextraction for extraction and preconcentration of Cu and Fe in red and white wine and determination by flame atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 105, 136-140.	2.9	41
22	Ultrasound-assisted extraction of rare-earth elements from carbonatite rocks. Ultrasonics Sonochemistry, 2018, 40, 24-29.	8.2	41
23	Feasibility of halogen determination in noncombustible inorganic matrices by ion chromatography after a novel volatilization method using microwave-induced combustion. Talanta, 2016, 147, 76-81.	5.5	40
24	Organic, inorganic and total mercury determination in fish by chemical vapor generation with collection on a gold gauze and electrothermal atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 513-519.	2.9	36
25	Evaluation of Hg species after culinary treatments of fish. Food Control, 2015, 47, 413-419.	5.5	36
26	A feasible method for As speciation in several types of seafood by LC-ICP-MS/MS. Food Chemistry, 2018, 255, 340-347.	8.2	36
27	A simple, rapid and low cost reversed-phase dispersive liquid-liquid microextraction for the determination of Na, K, Ca and Mg in biodiesel. Talanta, 2019, 199, 1-7.	5.5	36
28	Algae of economic importance that accumulate cadmium and lead: a review. Revista Brasileira De Farmacognosia, 2012, 22, 825-837.	1.4	35
29	Evaluation of drying conditions of fish tissues for inorganic mercury and methylmercury speciation analysis. Microchemical Journal, 2013, 108, 53-59.	4.5	35
30	Leaching of rare earth elements from phosphogypsum. Chemosphere, 2022, 301, 134661.	8.2	35
31	Determination of bromine, fluorine and iodine in mineral supplements using pyrohydrolysis for sample preparation. Journal of the Brazilian Chemical Society, 2012, 23, 488-495.	0.6	33
32	Simultaneous determination of iron and nickel in fluoropolymers by solid sampling high-resolution continuum source graphite furnace atomic absorption spectrometry. Talanta, 2016, 160, 454-460.	5.5	33
33	Ultrasound-assisted acid hydrolysis of cellulose to chemical building blocks: Application to furfural synthesis. Ultrasonics Sonochemistry, 2018, 40, 81-88.	8.2	33
34	Analysis of indium (III) adsorption from leachates of LCD screens using artificial neural networks (ANN) and adaptive neuro-fuzzy inference systems (ANIFS). Journal of Hazardous Materials, 2020, 384, 121137.	12.4	33
35	Investigation of major and trace element distribution in the extractionâ€“transesterification process of fatty acid methyl esters from microalgae Chlorella sp.. Bioresource Technology, 2012, 110, 730-734.	9.6	32
36	Feasibility of microwave-induced combustion for trace element determination in Engraulis anchoita by ICP-MS. Food Chemistry, 2014, 145, 927-931.	8.2	30

#	Article	IF	Citations
37	The synergic effect of microwave and ultraviolet radiation for chocolate digestion and further determination of As, Cd, Ni and Pb by ICP-MS. Journal of Analytical Atomic Spectrometry, 2016, 31, 523-530.	3.0	30
38	Determination of halogens and sulfur in pitch from crude oil by plasma-based techniques after microwave-induced combustion. Journal of Analytical Atomic Spectrometry, 2015, 30, 1822-1827.	3.0	29
39	ZnCl 2 exposure protects against behavioral and acetylcholinesterase changes induced by HgCl 2. International Journal of Developmental Neuroscience, 2009, 27, 459-468.	1.6	27
40	Rare earth element determination in heavy crude oil by USN-ICP-MS after digestion using a microwave-assisted single reaction chamber. Journal of Analytical Atomic Spectrometry, 2016, 31, 1185-1191.	3.0	26
41	Preparo de amostras de combustÃveis fÃ³sseis por piroidrÃ³lise para a determinaÃ§Ã£o de flÃºor e cloro. Quimica Nova, 2010, 33, 1130-1134.	0.3	24
42	Determination of toxic elements in yerba mate by ICP-MS after diluted acid digestion under O2 pressure. Food Chemistry, 2018, 263, 37-41.	8.2	24
43	Evaluation of liquid chromatography inductively coupled plasma mass spectrometry for arsenic speciation in water from industrial treatment of shale. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 978-984.	2.9	23
44	Strategies for the determination of trace and toxic elements in pitch: Evaluation of combustion and wet digestion methods for sample preparation. Fuel, 2016, 163, 175-179.	6.4	23
45	Prepubertal exposure to low doses of sodium arsenite impairs spermatogenesis and epididymal histophysiology in rats. Environmental Toxicology, 2019, 34, 83-91.	4.0	23
46	Adaptive neuro-fuzzy inference system (ANIFS) and artificial neural network (ANN) applied for indium (III) adsorption on carbonaceous materials. Chemical Engineering Communications, 2019, 206, 1452-1462.	2.6	22
47	Feasibility of nut digestion using single reaction chamber for further trace element determination by ICP-OES. Microchemical Journal, 2014, 116, 255-260.	4.5	20
48	Simple and Fast Method for Iron Determination in White and Red Wines Using Dispersive Liquidâ€“Liquid Microextraction and Ultravioletâ€“Visible Spectrophotometry. Journal of Agricultural and Food Chemistry, 2014, 62, 8340-8345.	5.2	19
49	Determination of bromine and iodine in edible flours by inductively coupled plasma mass spectrometry after microwave-induced combustion. Microchemical Journal, 2017, 133, 246-250.	4.5	17
50	Iodine Status of Brazilian School-Age Children: A National Cross-Sectional Survey. Nutrients, 2020, 12, 1077.	4.1	17
51	Comparison of matrix solid-phase dispersion and modified QuEChERS methods for extraction of pesticide residues from onion. Analytical Methods, 2012, 4, 1820.	2.7	16
52	Direct sampling graphite furnace atomic absorption spectrometry - feasibility of Na and K determination in desalted crude oil. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 141, 28-33.	2.9	16
53	Assessment of dispersive liquidâ€“liquid microextraction for the simultaneous extraction, preconcentration, and derivatization of <scp>H</scp>g²⁺ and <scp>CH</scp>₃<scp>H</scp>g⁺ for further determination by <scp>GC</scp>â€“<scp>MS</scp>. Journal of Separation Science, 2013, 36, 3411-3418.	2.5	15
54	Determination of trace elements in raw material for polyurethane production using direct sampling graphite furnace atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2014, 29, 324-331.	3.0	15

#	Article	IF	Citations
55	Magnesium and calcium determination in desalted crude oil by direct sampling graphite furnace atomic absorption spectrometry. Fuel, 2019, 236, 1483-1488.	6.4	15
56	Coconut agro-industrial waste in the production of catalyst containing palladium: The report of a mini-project for teaching of sustainable Suzuki-Miyaura reaction. Journal of Cleaner Production, 2018, 185, 342-346.	9.3	14
57	An in situ pre-concentration method for fluorine determination based on successive digestions by microwave-induced combustion. Talanta, 2019, 194, 314-319.	5.5	14
58	A method for the determination of multiclass pesticides in sugarcane juice employing QuEChERS and LC-ESI-MS/MS. Analytical Methods, 2013, 5, 2028.	2.7	13
59	DeterminaÃ§Ã£o espectrofotomÃ©trica de cloreto em cimento apÃ³s preparo de amostra por piroidrÃ³lise. Quimica Nova, 2013, 36, 716-719.	0.3	13
60	High purity polyimide analysis by solid sampling graphite furnace atomic absorption spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 129, 42-48.	2.9	13
61	Assessment of inorganic contaminants in golden mussel (Limnoperna fortunei) in Southern Brazil. Journal of the Brazilian Chemical Society, 2012, 23, 846-853.	0.6	12
62	Development of a dispersive liquidâ€“liquid microextraction method for iron extraction and preconcentration in water samples with different salinities. Analytical Methods, 2013, 5, 2273.	2.7	12
63	Ultrasound-Assisted Extraction of Cr from Residual Tannery Leather: Feasibility of Ethylenediaminetetraacetic Acid as the Extraction Solution. ACS Omega, 2018, 3, 16074-16080.	3.5	12
64	Degradation of herbicide diuron in water employing the Fe0/H2O2 system. Journal of the Brazilian Chemical Society, 2010, 21, 2347-2352.	0.6	11
65	Multielement determination in medicinal plants using electrothermal vaporization coupled to ICP OES. Analytical Methods, 2017, 9, 3497-3504.	2.7	11
66	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. Food Control, 2017, 78, 456-462.	5.5	11
67	Determination of Br, Cl and I in honey using ICP-based techniques following microwave-assisted wet digestion with alkaline H₂O₂ in a single reaction chamber. Analytical Methods, 2017, 9, 649-654.	2.7	11
68	Rapid microplate, green method for high-throughput evaluation of vinegar acidity using thermal infrared enthalpimetry. Food Chemistry, 2017, 215, 17-21.	8.2	11
69	Bioavailability of Hg and Se from seafood after culinary treatments. Microchemical Journal, 2018, 139, 363-371.	4.5	11
70	Biosorption of silver from aqueous solutions using wine industry wastes. Chemical Engineering Communications, 2018, 205, 325-337.	2.6	11
71	New possibilities for pharmaceutical excipients analysis: Combustion combined with pyrohydrolysis system for further total chlorine determination by ICP-OES. Talanta, 2019, 199, 124-130.	5.5	11
72	Influence of cereal bran supplement on cadmium effects in growing rats. Human and Experimental Toxicology, 2010, 29, 467-476.	2.2	10

#	Article	IF	Citations
73	Effect of wheat bran and flaxseed on cadmium effects and retention in rats. Human and Experimental Toxicology, 2011, 30, 981-991.	2.2	10
74	Microwave-induced combustion of high purity nuclear flexible graphite for the determination of potentially embrittling elements using atomic spectrometric techniques. Microchemical Journal, 2016, 124, 321-325.	4.5	10
75	Brazil nut improves the oxidative metabolism of superoxide-hydrogen peroxide chemically-imbalanced human fibroblasts in a nutrigenomic manner. Food and Chemical Toxicology, 2018, 121, 519-526.	3.6	10
76	A novel strategy for medical foods digestion and subsequent elemental determination using inductively coupled plasma optical emission spectrometry. Microchemical Journal, 2019, 147, 1055-1060.	4.5	10
77	Arsenic speciation analysis in rice milk using LC-ICP-MS. Food Chemistry: X, 2019, 2, 100028.	4.3	9
78	Microwave-Induced Combustion in Disposable Vessels: A Novel Perspective for Sample Digestion. Analytical Chemistry, 2020, 92, 8058-8063.	6.5	9
79	Effects of substances released from a coal tar-based coating used to protect harbor structures on oysters. Marine Pollution Bulletin, 2021, 166, 112221.	5.0	9
80	Arsenic Determination in Marine Sediment Using Ultrasound for Sample Preparation. Analytical Sciences, 2007, 23, 1097-1101.	1.6	8
81	Investigating essential and toxic elements in Antarctic macroalgae using a green analytical method. Journal of Applied Phycology, 2017, 29, 741-749.	2.8	8
82	Low concentrations of sodium arsenite induce hepatotoxicity in prepubertal male rats. Environmental Toxicology, 2020, 35, 553-560.	4.0	8
83	Determination of Cl, Br and I in granola: Development of an accurate analytical method using ICP-MS. Food Chemistry, 2021, 344, 128677.	8.2	8
84	Microwave-based strategies for sample preparation and halogen determination in blood using ICP-MS. Talanta, 2021, 226, 122157.	5.5	8
85	Environmentally friendly system for the degradation of multipesticide residues in aqueous media by the Fentonâ€™s reaction. Environmental Science and Pollution Research, 2014, 21, 584-592.	5.3	7
86	Microwave-assisted solid sampling system for Hg determination in polymeric samples using FF-AAS. Microchemical Journal, 2019, 147, 463-468.	4.5	7
87	Open source, low-cost device for thermometric titration with non-contact temperature measurement. Talanta, 2020, 216, 120975.	5.5	7
88	Infrared thermal imaging combined with paper microzone plates and natural reagent extracts for simple, fast, and green enthalpimetric analysis. Talanta, 2019, 204, 266-271.	5.5	6
89	Trace metal impurities determination in high-purity polyimide by plasma-based techniques. Microchemical Journal, 2019, 146, 492-497.	4.5	6
90	Feasibility of DS-GF AAS for the determination of metallic impurities in raw material for polymers production. Talanta, 2020, 218, 121129.	5.5	6

#	Article	IF	Citations
91	Palladium nanoparticle biosynthesis via Yerba Mate (Ilex paraguariensis) extract: an efficient eco-friendly catalyst for Suzukiâ€“Miyaura reactions. SN Applied Sciences, 2021, 3, 1.	2.9	6
92	Miniaturized, high-throughput and green determination of the saponification value of edible oils using thermal infrared enthalpimetry. Analytical Methods, 2018, 10, 3770-3776.	2.7	5
93	Infrared enthalpymetric methods: A new, fast and simple alternative for sodium determination in food sauces. Food Chemistry, 2020, 305, 125456.	8.2	5
94	Diphenyl diselenide modulates splenic purinergic signaling in silver catfish fed diets contaminated with fumonisin B1: An attempt to improve immune and hemostatic responses. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 227, 108624.	2.6	5
95	Diphenyl diselenide dietary supplementation protects against fumonisin B1-induced oxidative stress in brains of the silver catfish Rhamdia quelen. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2020, 231, 108738.	2.6	5
96	Dried Blood Spot and Microwave-Induced Combustion in Disposable Vessels: A Successful Combination for Halogen Determination. Bulletin of the Chemical Society of Japan, 2021, 94, 2162-2169.	3.2	5
97	Microwave-Induced Combustion of Coal for Further Sulfur Determination by Inductively Coupled Plasma Optical Emission Spectrometry or Ion Chromatography. Journal of the Brazilian Chemical Society, 2016, , .	0.6	4
98	Ilex Paraguariensis exposition to As and Cd in a closed soilless system. Chemosphere, 2020, 258, 127284.	8.2	4
99	Determination of trace elements in Sergio mirim: an evaluation of sample preparation methods and detection techniques. Environmental Science and Pollution Research, 2020, 27, 21914-21923.	5.3	4
100	Limonin Derivatives: Synthesis Using Methodology in Solution and Heterogeneous Medium and Evaluation of the Antimicrobial Activity. Journal of the Brazilian Chemical Society, 2015, , .	0.6	4
101	Antifouling paint particles in soils: toxic impact that goes beyond the aquatic environment. Ecotoxicology, 2021, 30, 1161-1169.	2.4	3
102	Vortex-assisted matrix solid-phase dispersion: An eco-friendly alternative for the determination of halogens in edible seaweed. Talanta, 2022, 244, 123395.	5.5	3
103	Microwave-Assisted Extraction. , 2014, , 231-251.		2
104	A Novel Method for Chlorine and Sulfur Determination in Gluten-Free and Gluten-Containing Edible Flours from Different Raw Materials and Countries. Food Analytical Methods, 2020, 13, 1799-1805.	2.6	2
105	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.	6.7	2
106	Microwave-induced self-ignition: An efficient approach for high purity graphite digestion and multitechnique halogen determination. Analytica Chimica Acta, 2022, 1199, 339569.	5.4	2
107	Feasibility of DLLME for the Extraction and Preconcentration of As and Cd in Sugar for Further Determination by ICP-MS. Journal of the Brazilian Chemical Society, 2017, , .	0.6	1
108	A Novel Thermal Infrared Enthalpimetric Method for Fast, High-Throughput Determination of the Content Uniformity of Captopril Tablets. Journal of the Brazilian Chemical Society, 0, , .	0.6	1

#	Article	IF	Citations
109	Nanostructured Systems Obtention Using LbL Self-Assembly or the Cysteine-Assisted Adsorption Method and Their Application as a Water Splitting Single Catalyst. Journal of the Brazilian Chemical Society, 2019, , .	0.6	1
110	A solid sampling approach for direct determination of Cl and S in flour by an elemental analyzer. Food Chemistry, 2021, 344, 128671.	8.2	1
111	Direct Sampling Graphite Furnace Atomic Absorption Spectrometry â€" A Suitable Tool for the Determination of Metallic Contaminants in Pitch. Bulletin of the Chemical Society of Japan, 2021, 94, 1963-1969.	3.2	1
112	PdCl2Immobilized in Polyacrylamide: a Low Cost and Eco-Friendly Catalyst for Suzuki-Miyaura Reactions. Journal of the Brazilian Chemical Society, 2015, , .	0.6	1
113	AvaliaÃ§Ã£o funcional e histolÃ³gica da tireoide de ovinos suplementados com fluoreto de sÃ³dio por um perÃodo de 150 dias. Arquivo Brasileiro De Medicina Veterinaria E Zootecnia, 2009, 61, 293-298.	0.4	0
114	24. Microwave-assisted sample preparation for organic analysis. , 2017, , 488-504.		0
115	Evaluation of Acetylcholinesterase and Prolyl Oligopeptidase Inhibition of Novel Amino acid-functionalized Stigmasterol and Ursolic Acid Derivatives. Current Organic Chemistry, 2019, 23, 2131-2140.	1.6	0
116	Thermal Infrared Enthalpimetry Method for the Determination of Hypochlorite in Bleaching Solutions. Journal of the Brazilian Chemical Society, 0, , .	0.6	0