Paola A Mello

List of Publications by Year
in descending order

90 papers	2,768 citations	182225 30 h-index	232693 48 g-index
92 all docs	92 docs citations	92 times ranked	2333 citing authors

#	Article	IF	Citations
1	Microwave-assisted extraction for further Cl, Br, and I determination in medicinal plants by ICP-MS: a study of carbon interferences. Journal of Analytical Atomic Spectrometry, 2022, 37, 535-543.	1.6	8
2	Determination of chloride in crude oil using isotope dilution GCâ€“MS: A comparative study. Fuel, 2021, 285, 119167.	3.4	7
3	A green and high throughput method for salt determination in crude oil using digital image-based colorimetry in a portable device. Fuel, 2021, 289, 119941.	3.4	8
4	A single step ultrasound-assisted nitrocellulose synthesis from microcrystalline cellulose. Ultrasonics Sonochemistry, 2021, 72, 105453.	3.8	14
5	Ultrasound-assisted conversion of tannic acid to gallic acid as a strategy to obtain value-added products. Ultrasonics Sonochemistry, 2021, 72, 105442.	3.8	4
6	Eco-friendly sample preparation method for silicon carbide using pyrohydrolysis for subsequent determination of tungsten by ICP-MS. Microchemical Journal, 2021, 171, 106781.	2.3	4
7	Determination of Halogens by Ion Chromatography in Edible Mushrooms after Microwave-Induced Combustion for Sample Preparation. Journal of Analytical Methods in Chemistry, 2021, 2021, 1-9.	0.7	2
8	Ultrasound-assisted extraction of chromium from residual tanned leather: An innovative strategy for the reuse of waste in tanning industry. Ultrasonics Sonochemistry, 2020, 64, 104682.	3.8	20
9	Electrochemical detection of 2,4,6-trinitrotoluene on carbon nanotube modified electrode: Effect of acid functionalization. Journal of Solid State Electrochemistry, 2020, 24, 121-129.	1.2	19
10	Determination of microplastic content in seafood: An integrated approach combined with the determination of elemental contaminants. Science of the Total Environment, 2020, 749, 142301.	3.9	7
11	UPLC-ESI/Q-TOF MS/MS Method for Determination of Vildagliptin and its Organic Impurities. Journal of Chromatographic Science, 2020, 58, 718-725.	0.7	10
12	An ultrasoundâ€assisted sample preparation method of carbonatite rock for determination of rare earth elements by inductively coupled plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2020, 34, e8732.	0.7	7
13	Challenges and trends for halogen determination by inductively coupled plasma mass spectrometry: A review. Rapid Communications in Mass Spectrometry, 2020, 34, e8727.	0.7	27
14	A sample preparation method for fluoride detection by potentiometry with ion-selective electrode in medicinal plants. Journal of Fluorine Chemistry, 2020, 231, 109459.	0.9	13
15	Solvent-free simultaneous extraction of volatile and non-volatile antioxidants from rosemary (Rosmarinus officinalis L.) by microwave hydrodiffusion and gravity. Industrial Crops and Products, 2020, 145, 112094.	2.5	36
16	Selenium and tellurium concentrations of Carboniferous British coals. Geological Journal, 2019, 54, 1401-1412.	0.6	14
17	Successive digestions for pre-concentration and ultra-trace determination of Br and I by plasma-based atomic spectrometry and ion chromatography. Microchemical Journal, 2019, 147, 239-244.	2.3	12
18	Trace metal impurities determination in high-purity polyimide by plasma-based techniques. Microchemical Journal, 2019, 146, 492-497.	2.3	6

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19	Determination of Se and Te in coal at ultra-trace levels by ICP-MS after microwave-induced combustion. Journal of Analytical Atomic Spectrometry, 2019, 34, 998-1004.	1.6	10
20	Bromine and iodine determination in human saliva: Challenges in the development of an accurate method. Talanta, 2019, 191, 415-421.	2.9	28
21	Determination of inorganic contaminants in carbon nanotubes by plasma-based techniques: Overcoming the limitations of sample preparation. Talanta, 2019, 192, 255-262.	2.9	13
22	Furfural production from lignocellulosic biomass by ultrasound-assisted acid hydrolysis. Ultrasonics Sonochemistry, 2019, 51, 332-339.	3.8	41
23	Bioavailability of Hg and Se from seafood after culinary treatments. Microchemical Journal, 2018, 139, 363-371.	2.3	11
24	Determination of Se at low concentration in coal by collision/reaction cell technology inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2018, 143, 48-54.	1.5	11
25	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.	1.5	16
26	Ultra-trace determination of bromine and iodine in rice by ICP-MS after microwave-induced combustion. Journal of Food Composition and Analysis, 2018, 66, 199-204.	1.9	18
27	Capillary zone electrophoresis method to assay tipranavir capsules and identification of oxidation product and organic impurity by quadrupole-time of flight mass spectrometry. Talanta, 2018, 181, 182-189.	2.9	13
28	Feasibility of Rare Earth Element Determination in Low Concentration in Crude Oil: Direct Sampling Electrothermal Vaporization-Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2018, 90, 7064-7071.	3.2	13
29	Determination of toxic elements in yerba mate by ICP-MS after diluted acid digestion under O2 pressure. Food Chemistry, 2018, 263, 37-41.	4.2	24
30	Determination of Cl, Br and I in soils by ICP-MS: microwave-assisted wet partial digestion using H₂O₂in an ultra-high pressure system. Journal of Analytical Atomic Spectrometry, 2018, 33, 649-657.	1.6	16
31	Ultrasound-assisted extraction of rare-earth elements from carbonatite rocks. Ultrasonics Sonochemistry, 2018, 40, 24-29.	3.8	41
32	Ultrasound-assisted acid hydrolysis of cellulose to chemical building blocks: Application to furfural synthesis. Ultrasonics Sonochemistry, 2018, 40, 81-88.	3.8	33
33	Feasibility of As, Sb, Se and Te determination in coal by solid sampling electrothermal vaporization inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2018, 33, 1384-1393.	1.6	15
34	Highly sensitive amperometric detection of drugs and antioxidants on non-functionalized multi-walled carbon nanotubes: Effect of metallic impurities?. Electrochimica Acta, 2017, 240, 80-89.	2.6	26
35	One-Shot, reagent-free determination of the alcoholic content of distilled beverages by thermal infrared enthalpimetry. Talanta, 2017, 171, 335-340.	2.9	20
36	Arsenic speciation in seafood by LC-ICP-MS/MS: method development and influence of culinary treatment. Journal of Analytical Atomic Spectrometry, 2017, 32, 1490-1499.	1.6	32

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37	Accurate determination of bromine and iodine in medicinal plants by inductively coupled plasma-mass spectrometry after microwave-induced combustion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 138, 58-63.	1.5	16
38	Feasibility of microwave-assisted ultraviolet digestion of polymeric waste electrical and electronic equipment for the determination of bromine and metals (Cd, Cr, Hg, Pb and Sb) by ICP-MS. Journal of Analytical Atomic Spectrometry, 2017, 32, 1789-1797.	1.6	16
39	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.	4.2	57
40	Determination of Inorganic Contaminants in Electrical and Electronic Equipment after Digestion Using Microwave-Assisted Single Reaction Chamber. Journal of the Brazilian Chemical Society, 2016, , .	0.6	1
41	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
42	Microwave-assisted wet digestion with H2O2 at high temperature and pressure using single reaction chamber for elemental determination in milk powder by ICP-OES and ICP-MS. Talanta, 2016, 156-157, 232-238.	2.9	50
43	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.	1.6	26
44	Determination of elemental impurities in pharmaceutical products and related matrices by ICP-based methods: a review. Analytical and Bioanalytical Chemistry, 2016, 408, 4547-4566.	1.9	72
45	Halogen determination in food and biological materials using plasma-based techniques: challenges and trends of sample preparation. Journal of Analytical Atomic Spectrometry, 2016, 31, 1243-1261.	1.6	68
46	Determination of halogens and sulfur in high-purity polyimide by IC after digestion by MIC. Talanta, 2016, 158, 193-197.	2.9	26
47	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.	3.4	23
48	Bromine and Iodine Contents in Raw and Cooked Shrimp and Its Parts. Journal of Agricultural and Food Chemistry, 2016, 64, 1817-1822.	2.4	24
49	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.	2.3	10
50	SIMULTANEOUS DETERMINATION OF METALS AND SULFUR IN CRUDE OIL DISTILLATION RESIDUES BY ICP-OES. Quimica Nova, 2016, , .	0.3	0
51	Plasma-based determination of inorganic contaminants in waste of electric and electronic equipment after microwave-induced combustion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 105, 95-102.	1.5	28
52	Determination of rare earth elements in graphite by solid sampling electrothermal vaporization-inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2015, 30, 2048-2055.	1.6	21
53	Study and determination of elemental impurities by ICP-MS in active pharmaceutical ingredients using single reaction chamber digestion in compliance with USP requirements. Talanta, 2015, 136, 161-169.	2.9	61
54	Determination of chlorine and sulfur in high purity flexible graphite using ion chromatography (IC) and inductively coupled plasma optical emission spectrometry (ICP OES) after pyrohydrolysis sample preparation. Analytical Methods, 2015, 7, 2129-2134.	1.3	30

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55	Simultaneous determination of bromine and iodine in milk powder for adult and infant nutrition by plasma based techniques after digestion using microwave-induced combustion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 107, 86-92.	1.5	39
56	Feasibility of ultra-trace determination of bromine and iodine in honey by ICP-MS using high sample mass in microwave-induced combustion. Analytical and Bioanalytical Chemistry, 2015, 407, 7957-7964.	1.9	37
57	Microwave-assisted ultraviolet digestion of petroleum coke for the simultaneous determination of nickel, vanadium and sulfur by ICP-OES. Talanta, 2015, 144, 1052-1058.	2.9	44
58	BROMINE AND IODINE DETERMINATION IN EDIBLE SEAWEED BY ICP-MS AFTER DIGESTION BY MICROWAVE-INDUCED COMBUSTION. Quimica Nova, 2014, , .	0.3	3
59	Microwave-Induced Combustion. , 2014, , 143-177.		10
60	Combining pyrohydrolysis and ICP-MS for bromine and iodine determination in airborne particulate matter. Microchemical Journal, 2014, 116, 225-229.	2.3	22
61	Microwave-induced combustion of crude oil for further rare earth elements determination by USNâ€“ICP-MS. Analytica Chimica Acta, 2014, 844, 8-14.	2.6	36
62	Microwave Heating. , 2014, , 59-75.		32
63	Evaluation of nitrogen effect on ultrasound-assisted oxidative desulfurization process. Fuel Processing Technology, 2014, 126, 521-527.	3.7	30
64	Effect of simultaneous cooling on microwave-assisted wet digestion of biological samples with diluted nitric acid and O2 pressure. Analytica Chimica Acta, 2014, 837, 16-22.	2.6	42
65	Determination of Toxic Elements in Nuts by Inductively Coupled Plasma Mass Spectrometry after Microwave-Induced Combustion. Food Analytical Methods, 2013, 6, 258-264.	1.3	28
66	Determination of inorganic pollutants in soil after volatilization using microwave-induced combustion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 86, 123-130.	1.5	21
67	Analytical methods for the determination of halogens in bioanalytical sciences: a review. Analytical and Bioanalytical Chemistry, 2013, 405, 7615-7642.	1.9	135
68	Focused microwave-induced combustion for digestion of botanical samples and metals determination by ICP OES and ICP-MS. Talanta, 2012, 94, 308-314.	2.9	41
69	Bromine and iodine determination in active pharmaceutical ingredients by ICP-MS. Journal of Analytical Atomic Spectrometry, 2012, 27, 1889.	1.6	50
70	Sample preparation methods for subsequent determination of metals and non-metals in crude oilâ€”A review. Analytica Chimica Acta, 2012, 746, 15-36.	2.6	116
71	Total sulfur determination in residues of crude oil distillation using FT-IR/ATR and variable selection methods. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 89, 82-87.	2.0	47
72	Determination of metal impurities in carbon nanotubes by direct solid sampling electrothermal atomic absorption spectrometry. Journal of the Brazilian Chemical Society, 2011, 22, 1040-1049.	0.6	23

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73	Severidade de doenÃ§as e manutenÃ§Ã£o da Ã¡rea foliar verde em funÃ§Ã£o da aplicaÃ§Ã£o de micronutrientes e fungicidas em trigo. Summa Phytopathologica, 2011, 37, 119-124.	0.3	6
74	Titanium alloy miniscrews for orthodontic anchorage: an in vivo study of metal ion release. Revista Odonto Ciencia, 2011, 26, 209-214.	0.0	4
75	Sample preparation strategies for bioinorganic analysis by inductively coupled plasma mass spectrometry. International Journal of Mass Spectrometry, 2011, 307, 123-136.	0.7	39
76	Sulfur removal from hydrotreated petroleum fractions using ultrasound-assisted oxidative desulfurization process. Fuel, 2011, 90, 2158-2164.	3.4	158
77	Iodine determination in food by inductively coupled plasma mass spectrometry after digestion by microwave-induced combustion. Analytical and Bioanalytical Chemistry, 2010, 398, 1125-1131.	1.9	90
78	Focused Microwave-Induced Combustion: A New Technique for Sample Digestion. Analytical Chemistry, 2010, 82, 2155-2160.	3.2	50
79	Ultrasound-assisted oxidative process for sulfur removal from petroleum product feedstock. Ultrasonics Sonochemistry, 2009, 16, 732-736.	3.8	101
80	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.	1.5	88
81	Feasibility of Microwave-Induced Combustion for Digestion of Crude Oil Vacuum Distillation Residue for Chlorine Determination. Energy & Fuels, 2009, 23, 6015-6019.	2.5	44
82	Nickel, vanadium and sulfur determination by inductively coupled plasma optical emission spectrometry in crude oil distillation residues after microwave-induced combustion. Journal of Analytical Atomic Spectrometry, 2009, 24, 911.	1.6	56
83	Determination of Halogens in Coal after Digestion Using the Microwave-Induced Combustion Technique. Analytical Chemistry, 2008, 80, 1865-1870.	3.2	111
84	Determination of Sulfur in Petroleum Coke Combining Closed Vessel Microwave-Induced Combustion and Inductively Coupled Plasma-Optical Emission Spectrometry. Analytical Letters, 2008, 41, 1623-1632.	1.0	41
85	Determination of trace elements in paints by direct sampling graphite furnace atomic absorption spectrometry. Analytica Chimica Acta, 2007, 602, 23-31.	2.6	16
86	Application of microwave induced combustion in closed vessels for carbon black-containing elastomers decomposition. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1065-1071.	1.5	44
87	Indium(I) bromide-mediated coupling of dibromoacetonitrile with aldehydes followed by Boord elimination of bromine and oxygen of Î²-bromo alkoxides for preparation of 3-organyl-2-alkenenitriles. Journal of Organometallic Chemistry, 2006, 691, 2335-2339.	0.8	13
88	Indium(I) Bromide-Mediated Regioselective Markovnikov Hydroselenation, Diselenation and Hydration of Terminal Alkynes with Diphenyldiselenide in Aqueous Media. Synlett, 2005, 2005, 3091-3094.	1.0	18
89	Halogen Determination in Polymeric Waste of Electrical and Electronic Equipment: Overcoming Limitations in Sample Preparation. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
90	Biomass waste valorization assisted by microwaves: a feasible approach for the co-production of value-added products. Biomass Conversion and Biorefinery, 0, , 1.	2.9	0