

# Maria Carmen Barciela-Alonso

## List of Publications by Year in descending order

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65  
papers

1,512  
citations

279487

23  
h-index

344852

36  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1801  
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of trace metals in natural waters by flame atomic absorption spectrometry following on-line ion-exchange preconcentration. <i>Analytica Chimica Acta</i> , 1995, 303, 341-345.	2.6	78
2	Bioavailability study using an in-vitro method of iodine and bromine in edible seaweed. <i>Food Chemistry</i> , 2011, 124, 1747-1752.	4.2	78
3	Ionic imprinted polymer based solid phase extraction for cadmium and lead pre-concentration/determination in seafood. <i>Microchemical Journal</i> , 2014, 114, 106-110.	2.3	72
4	Simultaneous speciation of arsenic, selenium, antimony and tellurium species in waters and soil extracts by capillary electrophoresis and UV detection. <i>Analyst, The</i> , 1998, 123, 2887-2893.	1.7	64
5	Solid phase extraction using molecular imprinted polymers for phthalate determination in water and wine samples by HPLC-ESI-MS. <i>Microchemical Journal</i> , 2017, 132, 233-237.	2.3	61
6	Study of cooking on the bioavailability of As, Co, Cr, Cu, Fe, Ni, Se and Zn from edible seaweed. <i>Microchemical Journal</i> , 2013, 108, 92-99.	2.3	53
7	Analysis of brain regional distribution of aluminium in rats via oral and intraperitoneal administration. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007, 21, 31-34.	1.5	50
8	Nickel and cobalt determination in marine sediments by electrothermal atomic absorption spectrometry, and their distribution in the Ria of Ferrol (NW Spain). <i>Marine Pollution Bulletin</i> , 2003, 46, 1504-1509.	2.3	49
9	Determination of trace metals (As, Cd, Hg, Pb and Sn) in marine sediment slurry samples by electrothermal atomic absorption spectrometry using palladium as a chemical modifier. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996, 51, 1235-1244.	1.5	48
10	Determination of bisphenol A in tea samples by solid phase extraction and liquid chromatography coupled to mass spectrometry. <i>Microchemical Journal</i> , 2019, 147, 598-604.	2.3	46
11	Determination of silicate, simultaneously with other nutrients (nitrite, nitrate and phosphate), in river waters by capillary electrophoresis. <i>Analytica Chimica Acta</i> , 2000, 416, 21-27.	2.6	45
12	Use of an in vitro digestion method to evaluate the bioaccessibility of arsenic in edible seaweed by inductively coupled plasma-mass spectrometry. <i>Microchemical Journal</i> , 2011, 98, 91-96.	2.3	45
13	Simultaneous determination and speciation analysis of arsenic and chromium in iron supplements used for iron-deficiency anemia treatment by HPLC-ICP-MS. <i>Talanta</i> , 2017, 170, 523-529.	2.9	45
14	Evaluation of an in vitro method to estimate trace elements bioavailability in edible seaweeds. <i>Talanta</i> , 2010, 82, 1668-1673.	2.9	44
15	Microwave-assisted alkaline digestion combined with microwave-assisted distillation for the determination of iodide and total iodine in edible seaweed by catalytic spectrophotometry. <i>Analytica Chimica Acta</i> , 2005, 542, 287-295.	2.6	42
16	Chromium available fractions in aroosa sediments using a modified microwave BCR protocol based on microwave assisted extraction. <i>Talanta</i> , 2005, 65, 678-685.	2.9	42
17	Phthalates determination in physiological saline solutions by HPLC-ES-MS. <i>Talanta</i> , 2008, 75, 1184-1189.	2.9	40
18	Blood lead and cadmium levels in a six hospital employee population. PESA study, 2009. <i>Journal of Trace Elements in Medicine and Biology</i> , 2011, 25, S22-S29.	1.5	32

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19	Effect of the cooking procedure on the arsenic speciation in the bioavailable (dialyzable) fraction from seaweed. <i>Microchemical Journal</i> , 2012, 105, 65-71.	2.3	31
20	Two-dimensional HPLC coupled to ICP-MS and electrospray ionisation (ESI)-MS/MS for investigating the bioavailability in vitro of arsenic species from edible seaweed. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 3359-3369.	1.9	30
21	Characterization of estuarine sediments by near infrared diffuse reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 2008, 624, 113-127.	2.6	29
22	Flow on-line sorption preconcentration in a knotted reactor coupled with electrothermal atomic absorption spectrometry for selective As(III) determination in sea-water samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 662.	1.6	27
23	Matrix solid phase dispersion-assisted BCR sequential extraction method for metal partitioning in surface estuarine sediments. <i>Talanta</i> , 2011, 83, 840-849.	2.9	25
24	Speciation of chromium by the determination of total chromium and chromium(III) by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 649-653.	1.6	24
25	Speciation of arsenic by the determination of total arsenic and arsenic(III) in marine sediment samples by electrothermal atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1995, 10, 247-252.	1.6	24
26	Direct speciation analysis of Cr(VI) by electrothermal atomic absorption spectrometry, based on the volatilization of Cr(III)-thenoyltrifluoroacetate from the graphite furnace. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 167-173.	1.5	22
27	Characterization of Edible Seaweed Harvested on the Galician Coast (Northwestern Spain) Using Pattern Recognition Techniques and Major and Trace Element Data. <i>Journal of Agricultural and Food Chemistry</i> , 2010, 58, 1986-1992.	2.4	21
28	Cloud point extraction and ICP-MS for titanium speciation in water samples. <i>Microchemical Journal</i> , 2020, 152, 104264.	2.3	21
29	Phthalates determination in pharmaceutical formulae used in parenteral nutrition by LC-ES-MS: importance in public health. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 529-535.	1.9	20
30	Determination of tin in marine sediment slurries by electrothermal atomic absorption spectrometry using palladium-magnesium nitrate as chemical modifier. <i>Fresenius' Journal of Analytical Chemistry</i> , 1997, 357, 274-278.	1.5	19
31	Estuarine sediment quality assessment by Fourier-transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2010, 53, 204-213.	1.2	18
32	Silver nanoparticles assessment in moisturizing creams by ultrasound assisted extraction followed by sp-ICP-MS. <i>Talanta</i> , 2019, 197, 530-538.	2.9	17
33	Presence of phthalates in contact lens and cleaning solutions. <i>Microchemical Journal</i> , 2011, 99, 108-113.	2.3	16
34	Development of a sensitive method for the analysis of four phthalates in tea samples: Tea bag contribution to the total amount in tea infusion. <i>Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment</i> , 2020, 37, 1719-1729.	1.1	15
35	Study of cadmium, lead and tin distribution in surface marine sediment samples from Ria de Arousa (NW of Spain). <i>Analytica Chimica Acta</i> , 2004, 524, 115-120.	2.6	14
36	Metal Content in Textile and (Nano)Textile Products. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 944.	1.2	14

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37	Silicon determination in milk by electrothermal atomic absorption spectrometry using palladium as chemical modifier. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 1290-1293.	1.9	12
38	Spectrometric-based techniques for metal-binding protein assessment in clinical, environmental, and food samples. <i>Applied Spectroscopy Reviews</i> , 2017, 52, 145-174.	3.4	12
39	Chromium in marine sediment samples from the R�� de Arousa (Galicia, NW of Spain): analysis of the total content in slurries by ETAAS. <i>Analytica Chimica Acta</i> , 2004, 524, 121-126.	2.6	11
40	Alternative Solid Sample Pretreatment Methods in Green Analytical Atomic Spectrometry. <i>Spectroscopy Letters</i> , 2009, 42, 394-417.	0.5	11
41	Study of extraction procedures for protein analysis in plankton samples by OFFGEL electrophoresis hyphenated with Lab-on-a-chip technology. <i>Talanta</i> , 2013, 115, 631-641.	2.9	11
42	Determination of cadmium in slurries of marine sediment samples by electrothermal atomic absorption spectrometry using palladium and phosphate as chemical modifiers. <i>Mikrochimica Acta</i> , 1996, 124, 251-261.	2.5	10
43	Vanadium determination in milk by atomic absorption spectrometry with electrothermal atomisation using hot injection and preconcentration on the graphite tube. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 435-439.	1.6	10
44	Two-Dimensional Isoelectric Focusing OFFGEL and Microfluidic Lab-on-Chip Electrophoresis for Assessing Dissolved Proteins in Seawater. <i>Analytical Chemistry</i> , 2013, 85, 5909-5916.	3.2	10
45	In vitro assessment of major and trace element bioaccessibility in tea samples. <i>Talanta</i> , 2021, 225, 122083.	2.9	10
46	Use of High-Resolution Continuum Source Flame Atomic Absorption Spectrometry (HR-CS FAAS) for Sequential Multi-Element Determination of Metals in Seawater and Wastewater Samples. <i>Journal of Applied Spectroscopy</i> , 2015, 82, 681-686.	0.3	9
47	Titanium dioxide nanoparticles assessment in seaweeds by single particle inductively coupled plasma �� Mass spectrometry. <i>Talanta</i> , 2022, 236, 122856.	2.9	9
48	Estuarine increase of chromium surface sediments: Distribution, transport and time evolution. <i>Microchemical Journal</i> , 2010, 96, 362-370.	2.3	8
49	Assessment of metals bound to marine plankton proteins and to dissolved proteins in seawater. <i>Analytica Chimica Acta</i> , 2013, 804, 59-65.	2.6	8
50	Evaluation of a cloud point extraction method for the preconcentration and quantification of silver nanoparticles in water samples by ETAAS. <i>International Journal of Environmental Analytical Chemistry</i> , 2018, 98, 1434-1447.	1.8	7
51	The bioavailability of arsenic species in rice. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3253-3259.	1.9	7
52	Direct LC��ES-MS/MS determination of phthalates in physiological saline solutions. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 231-235.	1.2	6
53	Evaluation of offgel electrophoresis, electrothermal atomic absorption spectroscopy and inductively coupled plasma optical emission spectroscopy for trace metal analysis in marine plankton protein. <i>Microchemical Journal</i> , 2015, 119, 51-57.	2.3	6
54	Selective Determination of V(IV) and V(V) in Seawater by Solid Phase Extraction and Electrothermal Atomic Absorption Spectrometry. <i>Atomic Spectroscopy</i> , 2011, 32, 234-239.	0.4	6

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55	An Environmentally Friendly Method for As, Cd, Cr, Cu, Ni, and Pb Determination in Terrestrial Moss Samples Using Ultrasonic Slurry Sampling Combined with Electrothermal Atomic Absorption Spectrometry. <i>Atomic Spectroscopy</i> , 2015, 36, 42-48.	0.4	5
56	Ultrasonication followed by enzymatic hydrolysis as a sample pre-treatment for the determination of Ag nanoparticles in edible seaweed by SP-ICP-MS. <i>Talanta</i> , 2022, 247, 123556.	2.9	4
57	Study of a microwave digestion method for total arsenic determination in marine mussels by electrothermal atomic absorption spectrometry: application to samples from the Ria de Arousa. <i>European Food Research and Technology</i> , 2008, 227, 1165-1172.	1.6	3
58	Characterization of raft mussels according to total trace elements and trace elements bound to metallothionein-like proteins. <i>Journal of Environmental Monitoring</i> , 2009, 11, 1389.	2.1	3
59	Direct Determination of Arsenic and Chromium in Seawater Samples Using On-Line Dilution and ICP-MS Analysis. <i>Atomic Spectroscopy</i> , 2016, 37, 91-95.	0.4	3
60	Separation and determination of Se-compounds by liquid chromatography coupled with electrospray mass spectrometry. <i>Journal of Trace Elements in Medicine and Biology</i> , 2007, 21, 23-25.	1.5	2
61	Developments on matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for identifying dissolved and particulate proteins in seawater after two-dimensional sodium dodecyl sulfate-polyacrylamide gel electrophoresis. <i>Microchemical Journal</i> , 2015, 122, 50-56.	2.3	2
62	Determination of the Trace Element Contents of Fruit Juice Samples by ICP OES and ICP-MS. <i>Brazilian Journal of Analytical Chemistry</i> , 2021, 9, .	0.3	2
63	Determinación de plomo y cadmio en sangre y su relación con fuentes de exposición. Estudio PESA, 2008. <i>Revista Del Laboratorio Clínico</i> , 2009, 2, 115-123.	0.1	1
64	Dissolved proteins characterization and speciation studies of metal-protein complexes in marine sediment pore water. <i>Microchemical Journal</i> , 2016, 124, 804-810.	2.3	1
65	Cr(VI) Determination in Seawater Samples Using an On-line Sorption Preconcentration in a Knotted Reactor Coupled With Electrothermal Atomic Absorption Spectrometry. <i>Atomic Spectroscopy</i> , 2011, 32, 27-33.	0.4	0