

Maria Carmen Barciela-Alonso

List of Publications by Year in descending order

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65
papers

1,512
citations

279798

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345221

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all docs

66
docs citations

66
times ranked

1801
citing authors

#	ARTICLE	IF	CITATIONS
1	Titanium dioxide nanoparticles assessment in seaweeds by single particle inductively coupled plasma " Mass spectrometry. <i>Talanta</i> , 2022, 236, 122856.	5.5	9
2	Metal Content in Textile and (Nano)Textile Products. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 944.	2.6	14
3	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.	5.5	4
4	In vitro assessment of major and trace element bioaccessibility in tea samples. <i>Talanta</i> , 2021, 225, 122083.	5.5	10
5	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, .	0.5	2
6	Cloud point extraction and ICP-MS for titanium speciation in water samples. <i>Microchemical Journal</i> , 2020, 152, 104264.	4.5	21
7	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.	2.3	15
8	The bioavailability of arsenic species in rice. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 3253-3259.	3.7	7
9	Silver nanoparticles assessment in moisturizing creams by ultrasound assisted extraction followed by sp-ICP-MS. <i>Talanta</i> , 2019, 197, 530-538.	5.5	17
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.	4.5	46
11	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.	3.3	7
12	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.	4.5	61
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.	5.5	45
14	Spectrometric-based techniques for metal-binding protein assessment in clinical, environmental, and food samples. <i>Applied Spectroscopy Reviews</i> , 2017, 52, 145-174.	6.7	12
15	Dissolved proteins characterization and speciation studies of metal-protein complexes in marine sediment pore water. <i>Microchemical Journal</i> , 2016, 124, 804-810.	4.5	1
16	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.	1.2	3
17	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.	4.5	2
18	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.	0.7	9

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19	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.	4.5	6
20	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.	1.2	5
21	Ionic imprinted polymer based solid phase extraction for cadmium and lead pre-concentration/determination in seafood. <i>Microchemical Journal</i> , 2014, 114, 106-110.	4.5	72
22	Assessment of metals bound to marine plankton proteins and to dissolved proteins in seawater. <i>Analytica Chimica Acta</i> , 2013, 804, 59-65.	5.4	8
23	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.	5.5	11
24	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.	4.5	53
25	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.	6.5	10
26	Effect of the cooking procedure on the arsenic speciation in the bioavailable (dialyzable) fraction from seaweed. <i>Microchemical Journal</i> , 2012, 105, 65-71.	4.5	31
27	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.	3.7	30
28	Matrix solid phase dispersion-assisted BCR sequential extraction method for metal partitioning in surface estuarine sediments. <i>Talanta</i> , 2011, 83, 840-849.	5.5	25
29	Bioavailability study using an in-vitro method of iodine and bromine in edible seaweed. <i>Food Chemistry</i> , 2011, 124, 1747-1752.	8.2	78
30	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.	4.5	45
31	Presence of phthalates in contact lens and cleaning solutions. <i>Microchemical Journal</i> , 2011, 99, 108-113.	4.5	16
32	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.	3.0	32
33	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.	2.3	6
34	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.	1.2	0
35	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.	1.2	6
36	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.	3.7	20

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37	Estuarine increase of chromium surface sediments: Distribution, transport and time evolution. <i>Microchemical Journal</i> , 2010, 96, 362-370.	4.5	8
38	Estuarine sediment quality assessment by Fourier-transform infrared spectroscopy. <i>Vibrational Spectroscopy</i> , 2010, 53, 204-213.	2.2	18
39	Evaluation of an in vitro method to estimate trace elements bioavailability in edible seaweeds. <i>Talanta</i> , 2010, 82, 1668-1673.	5.5	44
40	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.	5.2	21
41	Alternative Solid Sample Pretreatment Methods in Green Analytical Atomic Spectrometry. <i>Spectroscopy Letters</i> , 2009, 42, 394-417.	1.0	11
42	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
43	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
44	Characterization of estuarine sediments by near infrared diffuse reflectance spectroscopy. <i>Analytica Chimica Acta</i> , 2008, 624, 113-127.	5.4	29
45	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.	3.3	3
46	Phthalates determination in physiological saline solutions by HPLC-ES-MS. <i>Talanta</i> , 2008, 75, 1184-1189.	5.5	40
47	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.	3.0	2
48	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.	3.0	50
49	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.	5.4	42
50	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.	3.0	27
51	Chromium available fractions in arousa sediments using a modified microwave BCR protocol based on microwave assisted extraction. <i>Talanta</i> , 2005, 65, 678-685.	5.5	42
52	Chromium in marine sediment samples from the Ria de Arousa (Galicia, NW of Spain): analysis of the total content in slurries by ETAAS. <i>Analytica Chimica Acta</i> , 2004, 524, 121-126.	5.4	11
53	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.	5.4	14
54	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.	5.0	49

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55	Direct speciation analysis of Cr(VI) by electrothermal atomic absorption spectrometry, based on the volatilization of Cr(III)â€œthenoyltrifluoroacetate from the graphite furnace. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2003, 58, 167-173.	2.9	22
56	Silicon determination in milk by electrothermal atomic absorption spectrometry using palladium as chemical modifier. <i>Analytical and Bioanalytical Chemistry</i> , 2002, 374, 1290-1293.	3.7	12
57	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.	5.4	45
58	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.	3.0	10
59	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.	3.5	64
60	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
61	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.	2.9	48
62	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.	5.0	10
63	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.	5.4	78
64	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.	3.0	24
65	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.	3.0	24