Elena PeÃ±a-VÃ¡zquez

List of Publications by Year
in descending order

41 papers	985 citations	430843 18 h-index	454934 30 g-index
42 all docs	42 docs citations	42 times ranked	1241 citing authors

#	Article	IF	Citations
1	Synthesis and characterization of novel molecularly imprinted polymer – coated Mn-doped ZnS quantum dots for specific fluorescent recognition of cocaine. Biosensors and Bioelectronics, 2016, 75, 213-221.	10.1	76
2	Evaluation of number concentration quantification by single-particle inductively coupled plasma mass spectrometry: microsecond vs. millisecond dwell times. Analytical and Bioanalytical Chemistry, 2016, 408, 5089-5097.	3.7	74
3	Simple and Sensitive Molecularly Imprinted Polymer – Mn-Doped ZnS Quantum Dots Based Fluorescence Probe for Cocaine and Metabolites Determination in Urine. Analytical Chemistry, 2016, 88, 2734-2741.	6.5	61
4	Microalgae fiber optic biosensors for herbicide monitoring using sol–gel technology. Biosensors and Bioelectronics, 2009, 24, 3538-3543.	10.1	60
5	Speciation of iron in breast milk and infant formulas whey by size exclusion chromatography-high performance liquid chromatography and electrothermal atomic absorption spectrometry. Talanta, 2000, 50, 1211-1222.	5.5	47
6	Simultaneous determination and speciation analysis of arsenic and chromium in iron supplements used for iron-deficiency anemia treatment by HPLC-ICP-MS. Talanta, 2017, 170, 523-529.	5.5	45
7	Optimization of a vapour generation method for metal determination using ICP-OES. Journal of Analytical Atomic Spectrometry, 2007, 22, 642-649.	3.0	42
8	Matrix Solid-Phase Dispersion as a Sample Pretreatment for the Speciation of Arsenic in Seafood Products. Analytical Chemistry, 2008, 80, 9272-9278.	6.5	42
9	Mercury speciation in seawater by liquid chromatography-inductively coupled plasma-mass spectrometry following solid phase extraction pre-concentration by using an ionic imprinted polymer based on methyl-mercury–phenobarbital interaction. Journal of Chromatography A, 2015, 1391, 9-17.	3.7	41
10	Phthalates determination in physiological saline solutions by HPLC–ES-MS. Talanta, 2008, 75, 1184-1189.	5.5	40
11	Iron and zinc in hydrolised fractions of human milk and infant formulas using an in vitro method. Food Chemistry, 2002, 77, 361-369.	8.2	34
12	On-line ionic imprinted polymer selective solid-phase extraction of nickel and lead from seawater and their determination by inductively coupled plasma-optical emission spectrometry. Analytical and Bioanalytical Chemistry, 2009, 395, 1107-1115.	3.7	33
13	Development of a microalgal PAM test method for Cu(II) in waters: comparison of using spectrofluorometry. Ecotoxicology, 2010, 19, 1059-1065.	2.4	32
14	Characterization of estuarine sediments by near infrared diffuse reflectance spectroscopy. Analytica Chimica Acta, 2008, 624, 113-127.	5.4	29
15	Mercury speciation in edible seaweed by liquid chromatography - Inductively coupled plasma mass spectrometry after ionic imprinted polymer-solid phase extraction. Talanta, 2021, 224, 121841.	5.5	22
16	Cloud point extraction and ICP-MS for titanium speciation in water samples. Microchemical Journal, 2020, 152, 104264.	4.5	21
17	Use of high resolution continuum source atomic absorption spectrometry as a detector for chemically generated noble and transition metal vapors. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 659-665.	2.9	20
18	New adsorbents based on imprinted polymers and composite nanomaterials for arsenic and mercury screening/speciation: A review. Microchemical Journal, 2020, 156, 104886.	4.5	19

#	Article	IF	Citations
19	Copper fractionation by SEC-HPLC and ETAAS: Study of breast milk and infant formulae whey used in lactation of full-term newborn infants. Analyst, The, 2001, 126, 571-575.	3.5	18
20	Ionic imprinted polymer â€" Vortex-assisted dispersive micro-solid phase extraction for inorganic arsenic speciation in rice by HPLC-ICP-MS. Talanta, 2020, 220, 121418.	5.5	17
21	Synthesis and application of a surface ionic imprinting polymer on silica-coated Mn-doped ZnS quantum dots as a chemosensor for the selective quantification of inorganic arsenic in fish. Analytical and Bioanalytical Chemistry, 2020, 412, 1663-1673.	3.7	17
22	Use of lanthanum hydroxide as a trapping agent to determine of hydrides by HG-ICP-OES. Journal of Analytical Atomic Spectrometry, 2005, 20, 1344.	3.0	16
23	Ionic imprinted polymer solid-phase extraction for inorganic arsenic selective pre-concentration in fishery products before high-performance liquid chromatography â€" inductively coupled plasma-mass spectrometry speciation. Journal of Chromatography A, 2020, 1619, 460973.	3.7	16
24	Comparison of two lab-made spray chambers based on MSISâ„¢ for simultaneous metal determination using vapor generation-inductively coupled plasma optical emission spectroscopy. Analytica Chimica Acta, 2012, 749, 36-43.	5.4	15
25	Analytical performance of a lab-made concomitant metal analyzer to generate volatile species of Ag, Au, Cd, Cu, Ni, Sn and Zn using 8-hydroxyquinoline as a reaction media. Talanta, 2012, 100, 45-50.	5.5	14
26	Synthesis of an imprinted polymer for the determination of methylmercury in marine products. Talanta, 2015, 144, 636-641.	5.5	14
27	Determination of selenium in infant formulas whey fractions by SEC-HPLC-HG-ETAAS. Journal of Analytical Atomic Spectrometry, 2001, 16, 188-193.	3.0	11
28	Alternative Solid Sample Pretreatment Methods in Green Analytical Atomic Spectrometry. Spectroscopy Letters, 2009, 42, 394-417.	1.0	11
29	Two-Dimensional Isoelectric Focusing OFFGEL and Microfluidic Lab-on-Chip Electrophoresis for Assessing Dissolved Proteins in Seawater. Analytical Chemistry, 2013, 85, 5909-5916.	6.5	10
30	Smart materials for mercury and arsenic determination in food and beverages. Microchemical Journal, 2022, 179, 107472.	4.5	10
31	Fe, Cu and Zn distribution in different components of commercial infant formulas. European Food Research and Technology, 2005, 221, 529-537.	3.3	9
32	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. Journal of Applied Spectroscopy, 2015, 82, 681-686.	0.7	9
33	Titanium dioxide nanoparticles assessment in seaweeds by single particle inductively coupled plasma â€" Mass spectrometry. Talanta, 2022, 236, 122856.	5.5	9
34	Determination of Mercury in Wastewater Using a Molecularly Imprinted Polymer as Solid Phase Extraction Sorbent and CV-ICP-OES. Atomic Spectroscopy, 2016, 37, 238-243.	1.2	8
35	Enzymolysis Approach to Compare Cu Availability from Human Milk and Infant Formulas. Journal of Agricultural and Food Chemistry, 2004, 52, 4887-4892.	5.2	7
36	Evaluation of a cloud point extraction method for the preconcentration and quantification of silver nanoparticles in water samples by ETAAS. International Journal of Environmental Analytical Chemistry, 2018, 98, 1434-1447.	3.3	7

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37	Arsenic and antimony distribution in the RÃa de Arousa: before and after the Prestige oil tanker sinking. Journal of Environmental Monitoring, 2006, 8, 641-648.	2.1	6
38	A phenobarbital containing polymer/ silica coated quantum dot composite for the selective recognition of mercury species in fish samples using a room temperature phosphorescence quenching assay. Talanta, 2020, 216, 120959.	5.5	6
39	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. European Food Research and Technology, 2008, 227, 1165-1172.	3.3	3
40	A fast and simple method to perform cyanide detection using ATP stabilized gold nanoparticles combined with the Cu(DDTC)2 complex. Analytical Methods, 2015, 7, 4308-4314.	2.7	3
41	Determination of sulfur in bovine serum albumin and l -cysteine using high-resolution continuum source molecular absorption spectrometry of the CS molecule. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 122, 188-191.	2.9	3