Eduardo Bolea

List of Publications by Year
in descending order

45 papers	2,547 citations	236925 25 h-index	265206 42 g-index
46 all docs	46 docs citations	46 times ranked	2314 citing authors

#	Article	IF	Citations
1	Electrochemical vapor generation. , 2022, , 317-345.		0
2	Exploring the boundaries in the analysis of large particles by single particle inductively coupled plasma mass spectrometry: application to nanoclays. Journal of Analytical Atomic Spectrometry, 2022, 37, 1501-1511.	3.0	5
3	How the use of a short channel can improve the separation efficiency of nanoparticles in asymmetrical flow field-flow fractionation. Journal of Chromatography A, 2021, 1635, 461759.	3.7	0
4	Single-particle inductively coupled plasma mass spectrometry for the analysis of inorganic engineered nanoparticles: Metrological and quality issues. Comprehensive Analytical Chemistry, 2021, 93, 35-67.	1.3	6
5	Analytical applications of single particle inductively coupled plasma mass spectrometry: A comprehensive and critical review. Analytical Methods, 2021, 13, 2742-2795.	2.7	42
6	Size characterization and quantification of titanium dioxide nano- and microparticles-based products by Asymmetrical Flow Field-Flow Fractionation coupled to Dynamic Light Scattering and Inductively Coupled Plasma Mass Spectrometry. Analytica Chimica Acta, 2020, 1122, 20-30.	5.4	15
7	About detectability and limits of detection in single particle inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 169, 105883.	2.9	61
8	Single particle inductively coupled plasma mass spectrometry as screening tool for detection of particles. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2019, 159, 105654.	2.9	47
9	Silver nanoparticles-clays nanocomposites as feed additives: Characterization of silver species released during in vitro digestions. Effects on silver retention in pigs. Microchemical Journal, 2019, 149, 104040.	4.5	14
10	Iron oxide - clay composite vectors on long-distance transport of arsenic and toxic metals in mining-affected areas. Chemosphere, 2018, 197, 759-767.	8.2	17
11	Characterization of Engineered Nanomaterials. , 2018, , 108-108.		2
12	An ICP-MS-based platform for release studies on silver-based nanomaterials. Journal of Analytical Atomic Spectrometry, 2017, 32, 1101-1108.	3.0	10
13	Suitability of analytical methods to measure solubility for the purpose of nanoregulation. Nanotoxicology, 2016, 10, 1-12.	3.0	25
14	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
15	Single particle inductively coupled plasma mass spectrometry for the analysis of inorganic engineered nanoparticles in environmental samples. Trends in Environmental Analytical Chemistry, 2016, 9, 15-23.	10.3	92
16	Colloidal mobilization of arsenic from mining-affected soils by surface runoff. Chemosphere, 2016, 144, 1123-1131.	8.2	32
17	Size determination and quantification of engineered cerium oxide nanoparticles by flow field-flow fractionation coupled to inductively coupled plasma mass spectrometry. Journal of Chromatography A, 2016, 1438, 205-215.	3.7	24
18	Combining single-particle inductively coupled plasma mass spectrometry and X-ray absorption spectroscopy to evaluate the release of colloidal arsenic from environmental samples. Analytical and Bioanalytical Chemistry, 2016, 408, 5125-5135.	3.7	16

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19	Detection, characterization and quantification of inorganic engineered nanomaterials: A review of techniques and methodological approaches for the analysis of complex samples. Analytica Chimica Acta, 2016, 904, 10-32.	5.4	300
20	Arsenic speciation in the dispersible colloidal fraction of soils from a mine-impacted creek. Journal of Hazardous Materials, 2015, 286, 30-40.	12.4	27
21	An insight into silver nanoparticles bioavailability in rats. Metallomics, 2014, 6, 2242-2249.	2.4	62
22	Single Particle Inductively Coupled Plasma Mass Spectrometry: A Powerful Tool for Nanoanalysis. Analytical Chemistry, 2014, 86, 2270-2278.	6.5	374
23	Detection and characterization of silver nanoparticles and dissolved species of silver in culture medium and cells by AsFlFFF-UV-Vis-ICPMS: application to nanotoxicity tests. Analyst, The, 2014, 139, 914-922.	3.5	74
24	Critical considerations for the determination of nanoparticle number concentrations, size and number size distributions by single particle ICP-MS. Journal of Analytical Atomic Spectrometry, 2013, 28, 1220.	3.0	213
25	Selective identification, characterization and determination of dissolved silver(i) and silver nanoparticles based on single particle detection by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2011, 26, 1362.	3.0	322
26	An approach to the natural and engineered nanoparticles analysis in the environment by inductively coupled plasma mass spectrometry. International Journal of Mass Spectrometry, 2011, 307, 99-104.	1.5	42
27	Size characterization and quantification of silver nanoparticles by asymmetric flow field-flow fractionation coupled with inductively coupled plasma mass spectrometry. Analytical and Bioanalytical Chemistry, 2011, 401, 2723-2732.	3.7	97
28	Study of the size-based environmental availability of metals associated to natural organic matter by stable isotope exchange and quadrupole inductively coupled plasma mass spectrometry coupled to asymmetrical flow field flow fractionation. Journal of Chromatography A, 2011, 1218, 4199-4205.	3.7	13
29	Metal associations to microparticles, nanocolloids and macromolecules in compost leachates: Size characterization by asymmetrical flow field-flow fractionation coupled to ICP-MS. Analytica Chimica Acta, 2010, 661, 206-214.	5.4	57
30	Functional speciation of metal-dissolved organic matter complexes by size exclusion chromatography coupled to inductively coupled plasma mass spectrometry and deconvolution analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2009, 64, 392-398.	2.9	28
31	A speciation methodology to study the contributions of humic-like and fulvic-like acids to the mobilization of metals from compost using size exclusion chromatographyâ€“ultraviolet absorptionâ€“inductively coupled plasma mass spectrometry and deconvolution analysis. Analytica Chimica Acta, 2008, 606, 1-8.	5.4	42
32	Determination of total and soluble chromium(VI) in compost by ion chromatographyâ€“inductively coupled plasma mass spectrometry. International Journal of Environmental Analytical Chemistry, 2007, 87, 227-235.	3.3	11
33	Mobilization and speciation of chromium in compost: A methodological approach. Science of the Total Environment, 2007, 373, 383-390.	8.0	19
34	Electrochemical hydride generation as a sample-introduction technique in atomic spectrometry: fundamentals, interferences, and applications. Analytical and Bioanalytical Chemistry, 2007, 388, 743-751.	3.7	73
35	Determination of antimony by electrochemical hydride generation atomic absorption spectrometry in samples with high iron content using chelating resins as on-line removal system. Analytica Chimica Acta, 2006, 569, 227-233.	5.4	13
36	Multielement characterization of metal-humic substances complexation by size exclusion chromatography, asymmetrical flow field-flow fractionation, ultrafiltration and inductively coupled plasma-mass spectrometry detection: A comparative approach. Journal of Chromatography A, 2006, 1129, 236-246.	3.7	70

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37	Elucidation of interference mechanisms caused by iron on stibine electrochemical generation by differential pulse anodic stripping voltametry. A case study. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 96-103.	2.9	21
38	Mathematical correction for polyatomic interferences in the speciation of chromium by liquid chromatographyâ€“inductively coupled plasma quadrupole mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 433-437.	2.9	20
39	Electrochemical hydride generation for the simultaneous determination of hydride forming elements by inductively coupled plasma-atomic emission spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2004, 59, 505-513.	2.9	59
40	Quick, Easy, and Inexpensive Way to Detect Small Metallic Particles in Suspension Using Voltammetry of Immobilized Microparticles. Analytical Letters, 2003, 36, 923-931.	1.8	3
41	Flow Injection Electrochemical Hydride Generation of Hydrogen Selenide on Lead Cathode: Critical Study of the Influence of Experimental Parameters.. Analytical Sciences, 2003, 19, 367-372.	1.6	12
42	Comment on â€œElectrolytic hydride generation (EC-HG)â€”a sample introduction system with some special featuresâ€•by E. Denkhaus, A. Golloch, X.-M. Guo and B. Huang, J. Anal. At. Spectrom., 2001, 16, 870. Journal of Analytical Atomic Spectrometry, 2002, 17, 727-728.	3.0	3
43	Hydride generation in analytical chemistry and nascent hydrogen: when is it going to be over?. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 797-802.	2.9	35
44	Interferences in electrochemical hydride generation of hydrogen selenide. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2001, 56, 2347-2360.	2.9	29
45	Tubular electrolytic hydride generator for continuous and flow injection sample introduction in atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2000, 15, 103-107.	3.0	46