

MarÃ-a Luisa FernÃ;ndez-SÃ;nchez

List of Publications by Year in descending order

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77
papers

2,801
citations

126907

33
h-index

182427

51
g-index

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all docs

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docs citations

78
times ranked

2325
citing authors

#	ARTICLE	IF	CITATIONS
1	Trace element speciation by ICP-MS in large biomolecules and its potential for proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 377, 236-247.	3.7	151
2	The emerging role of ICP-MS in proteomic analysis. <i>Journal of Proteomics</i> , 2009, 72, 989-1005.	2.4	149
3	Organised surfactant assemblies in analytical atomic spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 251-287.	2.9	144
4	Static headspace, solid-phase microextraction and headspace solid-phase microextraction for BTEX determination in aqueous samples by gas chromatography. <i>Analytica Chimica Acta</i> , 2000, 415, 9-20.	5.4	134
5	Laser ablation ICP-MS for quantitative biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2113-2125.	3.7	113
6	The potential of double focusing-ICP-MS for studying elemental distribution patterns in whole milk, skimmed milk and milk whey of different milks. <i>Analytica Chimica Acta</i> , 2001, 442, 191-200.	5.4	98
7	Total determination and quantitative speciation analysis of selenium in yeast and wheat flour by isotope dilution analysis ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1243-1247.	3.0	98
8	Certification of a new selenized yeast reference material (SELM-1) for methionine, selenomethionine and total selenium content and its use in an intercomparison exercise for quantifying these analytes. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 168-180.	3.7	85
9	ICP-MS for absolute quantification of proteins for heteroatom-tagged, targeted proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 40, 52-63.	11.4	80
10	Speciation of inorganic selenium and selenoaminoacids by on-line reversed-phase high-performance liquid chromatography- ² “focused microwave digestion- ² hydride generation-atomic detection. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 1163-1169.	3.0	78
11	Organic and inorganic selenium speciation in urine by on-line vesicle mediated high-performance liquid chromatography- ² “focused microwave digestion- ² hydride generation- ² inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 423-429.	3.0	64
12	Gold internal standard correction for elemental imaging of soft tissue sections by LA-ICP-MS: element distribution in eye microstructures. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3091-3096.	3.7	53
13	Speciation of inorganic mercury(II) and methylmercury by vesicle-mediated high-performance liquid chromatography coupled to cold vapour atomic absorption spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1994, 9, 1279-1284.	3.0	52
14	Quantitative bioimaging of trace elements in the human lens by LA-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2343-2348.	3.7	50
15	Ultratrace determination of cadmium by atomic absorption spectrometry using hydride generation with in situ preconcentration in a palladium-coated graphite atomizer. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 571-575.	3.0	49
16	Total selenium and selenomethionine in pharmaceutical yeast tablets: assessment of the state of the art of measurement capabilities through international intercomparison CCQM-P86. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 390, 629-642.	3.7	48
17	An attempt to differentiate HPLC-ICP-MS selenium speciation in natural and selenised <i>Agaricus</i> mushrooms using different species extraction procedures. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 902-907.	3.7	47
18	On-line focused microwave digestion-hydride generation of inorganic and organic selenium: Total determination and inorganic selenium speciation by atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996, 51, 1849-1857.	2.9	46

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19	Total determination of essential and toxic elements in milk whey by double focusing ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 163-168.	3.0	46
20	Quantitative selenium speciation in cod muscle by isotope dilution ICP-MS with a reaction cell: comparison of different reported extraction procedures. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 644-648.	3.0	46
21	Vesicle-mediated high-performance liquid chromatography coupled to hydride generation inductively coupled plasma atomic emission spectrometry for speciation of toxicologically important arsenic species. <i>Journal of Analytical Atomic Spectrometry</i> , 1993, 8, 815-820.	3.0	44
22	Selenium levels and Glutathione peroxidase activity in the plasma of patients with type II diabetes mellitus. <i>Journal of Trace Elements in Medicine and Biology</i> , 2016, 37, 44-49.	3.0	43
23	Mesenchymal Stem Cells as a Cornerstone in a Galaxy of Intercellular Signals: Basis for a New Era of Medicine. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3576.	4.1	43
24	MMP-11 as a biomarker for metastatic breast cancer by immunohistochemical-assisted imaging mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 639-646.	3.7	39
25	Total metal content and chemical speciation analysis of iron, copper, zinc and iodine in human breast milk using high-performance liquid chromatography separation and inductively coupled plasma mass spectrometry detection. <i>Food Chemistry</i> , 2020, 326, 126978.	8.2	39
26	Speciation of D,L-selenomethionine enantiomers on a β -cyclodextrin column with fluorimetric and on-line hydride generation inductively coupled plasma mass spectrometric detection. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 893-898.	3.0	38
27	Urinary selenium speciation by high-performance liquid chromatography-inductively coupled plasma mass spectrometry: advantages of detection with a double-focusing mass analyser with a hydride generation interface. <i>Talanta</i> , 1999, 50, 207-217.	5.5	38
28	Absolute Quantification of Human Serum Transferrin by Species-Specific Isotope Dilution Laser Ablation ICP-MS. <i>Analytical Chemistry</i> , 2011, 83, 5353-5360.	6.5	38
29	Advances in absolute protein quantification and quantitative protein mapping using ICP-MS. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 148-159.	11.4	38
30	Design and evaluation of a new Peltier-cooled laser ablation cell with on-sample temperature control. <i>Analytica Chimica Acta</i> , 2014, 809, 88-96.	5.4	36
31	Qualitative and quantitative speciation analysis of water soluble selenium in three edible wild mushrooms species by liquid chromatography using post-column isotope dilution ICP-MS. <i>Analytica Chimica Acta</i> , 2005, 538, 99-105.	5.4	35
32	Quantitative bioimaging of Ca, Fe, Cu and Zn in breast cancer tissues by LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 671-677.	3.0	35
33	Vesicle-mediated high-performance liquid chromatography coupled to atomic detection for speciation of toxic elements. <i>Journal of Chromatography A</i> , 1994, 683, 233-243.	3.7	34
34	Speciation of mercury by continuous flow liquid-liquid extraction and inductively coupled plasma atomic emission spectrometry detection. <i>Mikrochimica Acta</i> , 1996, 122, 157-166.	5.0	34
35	Protective effect of selenium supplementation following oxidative stress mediated by glucose on retinal pigment epithelium. <i>Metallomics</i> , 2018, 10, 83-92.	2.4	34
36	Vesicle-assisted determination of ultratrace amounts of cadmium in urine by electrothermal atomic absorption spectrometry and inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 899-903.	3.0	32

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37	Multi-elemental fractionation in milk whey by size exclusion chromatography coupled on line to ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1271-1277.	3.0	31
38	Vesicular Hydride Generation "In Situ Preconcentration" Electrothermal Atomic Absorption Spectrometry Determination of Sub-parts-per-billion Levels of Cadmium. <i>Journal of Analytical Atomic Spectrometry</i> , 1997, 12, 1333-1336.	3.0	30
39	Cadmium-bound species in human urine using high-performance liquid chromatography-vesicular hydride generation-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1999, 14, 1343-1348.	3.0	30
40	Comparison of two CE-ICP-MS interfaces based on microflow nebulizers: application to cadmium speciation in metallothioneins using quadrupole and double focusing mass analyzers. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 655-661.	3.0	30
41	Multielemental distribution patterns in premature human milk whey and pre-term formula milk whey by size exclusion chromatography coupled to inductively coupled plasma mass spectrometry with octopole reaction cell. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 1104-1110.	3.0	28
42	Static headspace versus head space solid-phase microextraction (HS-SPME) for the determination of volatile organochlorine compounds in landfill leachates by gas chromatography. <i>Talanta</i> , 2004, 63, 809-814.	5.5	28
43	Total zinc quantification by inductively coupled plasma-mass spectrometry and its speciation by size exclusion chromatography "inductively coupled plasma-mass spectrometry in human milk and commercial formulas: Importance in infant nutrition. <i>Journal of Chromatography A</i> , 2016, 1428, 246-254.	3.7	28
44	Multimodal laser ablation/desorption imaging analysis of Zn and MMP-11 in breast tissues. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 913-922.	3.7	28
45	Enriched stable isotopes and isotope pattern deconvolution for quantitative speciation of endogenous and exogenous selenium in rat urine by HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2009, 24, 460.	3.0	27
46	Sample preparation for identification of selenocompounds in urine by electrospray-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 1471-1476.	3.0	26
47	Vesicle-mediated high performance liquid chromatography coupled to hydride generation inductively coupled plasma mass spectrometry for cadmium speciation in fish cytosols. <i>Journal of Analytical Atomic Spectrometry</i> , 2000, 15, 519-524.	3.0	24
48	Use of enriched ⁷⁴ Se and ⁷⁷ Se in combination with isotope pattern deconvolution to differentiate and determine endogenous and supplemented selenium in lactating rats. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 707-713.	3.7	22
49	Iron content and its speciation in human milk from mothers of preterm and full-term infants at early stages of lactation: A comparison with commercial infant milk formulas. <i>Microchemical Journal</i> , 2012, 105, 108-114.	4.5	20
50	Quantitative study of zinc and metallothioneins in the human retina and RPE cells by mass spectrometry-based methodologies. <i>Talanta</i> , 2018, 178, 222-230.	5.5	20
51	Determination of essential and toxic total elements in premature human milk by inductively coupled plasma mass spectrometry (ICP-ORC-MS), using an octopole reaction cell. <i>Journal of Analytical Atomic Spectrometry</i> , 2004, 19, 616-622.	3.0	18
52	Plasma rich in growth factors eye drops to treat secondary ocular surface disorders in patients with glaucoma. <i>International Medical Case Reports Journal</i> , 2018, Volume 11, 97-103.	0.8	18
53	Direct analysis of slags by inductively coupled plasma atomic emission spectrometry using slurry sample introduction techniques. <i>Journal of Analytical Atomic Spectrometry</i> , 1991, 6, 397.	3.0	16
54	Differential-pulse voltammetric determination of low 10^{-1} cyanide levels using EDTA, Cu(II) and a hanging mercury drop electrode. <i>Analytica Chimica Acta</i> , 2000, 410, 135-142.	5.4	16

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55	Nutritional iron supplementation studies based on enriched ⁵⁷ F, added to milk in rats, and isotope pattern deconvolutionâ€”ICP-MS analysis. <i>Electrophoresis</i> , 2012, 33, 2407-2415.	2.4	16
56	Iron bioavailability from supplemented formula milk: effect of lactoferrin addition. <i>European Journal of Nutrition</i> , 2017, 56, 2611-2620.	3.9	12
57	Improved separation of rabbit liver metallothioneins by FPLC-ICP-MS: a comparison with the conventional anion-exchange chromatography. <i>Analisis - European Journal of Analytical Chemistry</i> , 2000, 28, 351-357.	0.4	12
58	Speciation and isotope pattern deconvolution for inductively coupled plasma-mass spectrometry quantitative studies of mineral metabolism and supplementation. <i>Pure and Applied Chemistry</i> , 2010, 82, 447-460.	1.9	9
59	Efficiency of iodine supplementation, as potassium iodide, during lactation: A study in neonates and their mothers. <i>Food Chemistry</i> , 2012, 133, 859-865.	8.2	9
60	Quantitative selenium speciation by HPLC-ICP-MS(IDA) and simultaneous activity measurements in human vitreous humor. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2405-2413.	3.7	9
61	Elemental and molecular mass spectrometry for integrated selenosugar speciation in liver and kidney tissues of maternal feeding and supplemented rats. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 267-276.	3.0	9
62	Quantitative speciation analysis for the <i>in vivo</i> study of iron metabolism and bioavailability from formula milk fortified with stable isotope enriched iron oxo-hydroxide nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 774-781.	3.0	8
63	Searching for enhanced iron fortification of formula milk via nanoparticles and Isotope Pattern Deconvolution. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2018, 148, 165-171.	2.9	7
64	Effect of holder pasteurisation on total concentrations and iron-binding profiles of holo-lactoferrin used as fortifier in donor human milk. <i>International Dairy Journal</i> , 2020, 100, 104564.	3.0	6
65	Near-Infrared Sensors for Onsite and Noninvasive Quantification of Macronutrients in Breast Milk. <i>Sensors</i> , 2022, 22, 1311.	3.8	6
66	In vivo study of the effect of lactoferrin on iron metabolism and bioavailability from different iron chemical species for formula milk fortification. <i>Electrophoresis</i> , 2018, 39, 1702-1713.	2.4	5
67	P, S and Cl trace detection by laser ablation double-focusing sector field ICP-MS to identify local defects in coated glasses. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1526.	3.0	4
68	Impact of Holder pasteurization on essential elements from human donor milk: Total contents and protein-binding profiles. <i>Journal of Food Composition and Analysis</i> , 2020, 87, 103395.	3.9	4
69	Signal amplification strategies for clinical biomarker quantification using elemental mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 53-62.	3.7	4
70	Rapid determination of eight elements in cement and its raw mixes by inductively coupled plasma atomic emission spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1987, 2, 491-495.	3.0	3
71	Selenium speciation in rat colon tissues. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 100-108.	3.0	2
72	Optical Atomic Emission Spectrometryâ€”Inductively Coupled Plasma. , 2018, , 169-169.		2

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73	Elemental Speciation in Human Milk and Substitute Food for Newborns. , 0, , 535-566.		1
74	Optical Atomic Emission Spectrometry/Flame Photometry. , 2018, , .		1
75	Single point calibration for quantitative speciation of selenomethionine in yeast <i>Saccharomyces cerevisiae</i> by HPLC-ICP-MS: using reliable, traceable and comparable measurements. Journal of the Mexican Chemical Society, 2018, 62, .	0.6	1
76	Optical Atomic Spectrometry: An Overview. , 2018, , 99-99.		0
77	Static headspace versus head space solid-phase microextraction (HS-SPME) for the determination of volatile organochlorine compounds in landfill leachates by gas chromatography. Talanta, 2004, 63, 809-814.	5.5	0