

# 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

78  
all docs

78  
docs citations

78  
times ranked

2325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Signal amplification strategies for clinical biomarker quantification using elemental mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 53-62.	3.7	4
2	Near-Infrared Sensors for Onsite and Noninvasive Quantification of Macronutrients in Breast Milk. <i>Sensors</i> , 2022, 22, 1311.	3.8	6
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Optical Atomic Emission Spectrometry-Inductively Coupled Plasma. , 2018, , 169-169.		2
15	Optical Atomic Emission Spectrometry/Flame Photometry. , 2018, , .		1
16	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
17	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
18	Optical Atomic Spectrometry: An Overview. , 2018, , 99-99.		0

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19	Single point calibration for quantitative speciation of selenomethionine in yeast <i>Saccharomyces cerevisiae</i> by HPLC-ICP-MS: using reliable, traceable and comparable measurements. <i>Journal of the Mexican Chemical Society</i> , 2018, 62, .	0.6	1
20	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
21	Iron bioavailability from supplemented formula milk: effect of lactoferrin addition. <i>European Journal of Nutrition</i> , 2017, 56, 2611-2620.	3.9	12
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	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
24	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
25	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
26	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
27	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
28	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
29	Nutritional iron supplementation studies based on enriched <sup>57</sup> F, added to milk in rats, and isotope pattern deconvolution—ICP-MS analysis. <i>Electrophoresis</i> , 2012, 33, 2407-2415.	2.4	16
30	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
31	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
32	Laser ablation ICP-MS for quantitative biomedical applications. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2113-2125.	3.7	113
33	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
34	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
35	Selenium speciation in rat colon tissues. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 100-108.	3.0	2
36	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

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37	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
38	The emerging role of ICP-MS in proteomic analysis. <i>Journal of Proteomics</i> , 2009, 72, 989-1005.	2.4	149
39	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
40	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
41	Use of enriched <sup>74</sup> Se and <sup>77</sup> 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
42	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
43	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
44	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>Chimica Acta</i> , 2005, 538, 99-105.	5.4	35
45	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
46	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
47	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
48	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
49	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	0
50	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
51	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
52	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
53	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
54	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

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55	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
56	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
57	Differential-pulse voltammetric determination of low $\mu\text{g/L}$ cyanide levels using EDTA, Cu(II) and a hanging mercury drop electrode. <i>Analytica Chimica Acta</i> , 2000, 410, 135-142.	5.4	16
58	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
59	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
60	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
61	Organised surfactant assemblies in analytical atomic spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1999, 54, 251-287.	2.9	144
62	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
63	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
64	Speciation of D,L-selenomethionine enantiomers on a $\beta$ -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
65	Organic and inorganic selenium speciation in urine by on-line vesicle mediated high-performance liquid chromatography-fused microwave digestion-hydride generation-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 423-429.	3.0	64
66	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
67	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
68	Speciation of inorganic selenium and selenoaminoacids by on-line reversed-phase high-performance liquid chromatography-fused microwave digestion-hydride generation-atomic detection. <i>Journal of Analytical Atomic Spectrometry</i> , 1996, 11, 1163-1169.	3.0	78
69	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
70	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
71	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
72	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

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73	Speciation of inorganic mercury(II) and methylmercury by vesicle-mediated high-performance liquid chromatography coupled to cold vapour atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 1994, 9, 1279-1284.	3.0	52
74	Vesicle-mediated high-performance liquid chromatography coupled to hydride generation inductively coupled plasma atomic emission spectrometry for speciation of toxicologically important arsenic species. Journal of Analytical Atomic Spectrometry, 1993, 8, 815-820.	3.0	44
75	Direct analysis of slags by inductively coupled plasma atomic emission spectrometry using slurry sample introduction techniques. Journal of Analytical Atomic Spectrometry, 1991, 6, 397.	3.0	16
76	Rapid determination of eight elements in cement and its raw mixes by inductively coupled plasma atomic emission spectrometry. Journal of Analytical Atomic Spectrometry, 1987, 2, 491-495.	3.0	3
77	Elemental Speciation in Human Milk and Substitute Food for Newborns. , 0, , 535-566.		1