

# Maria Montes-Bayon

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134  
papers

4,398  
citations

37  
h-index

60  
g-index

145  
ext. papers

4,829  
ext. citations

5.1  
avg, IF

5.5  
L-index

#	Paper	IF	Citations
134	Effect of Bis(maltolato)oxovanadium(IV) on Zinc, Copper, and Manganese Homeostasis and DMT1 mRNA Expression in Streptozotocin-Induced Hyperglycemic Rats. <i>Biology</i> , <b>2022</b> , 11, 814	4.9	0
133	Vanadium Decreases Hepcidin mRNA Gene Expression in STZ-Induced Diabetic Rats, Improving the Anemic State. <i>Nutrients</i> , <b>2021</b> , 13,	6.7	3
132	Ultrasmall iron oxide nanoparticles cisplatin (IV) prodrug nanoconjugate: ICP-MS based strategies to evaluate the formation and drug delivery capabilities in single cells. <i>Analytica Chimica Acta</i> , <b>2021</b> , 1159, 338356	6.6	10
131	Evaluation of nanodebris produced by in vitro degradation of titanium-based dental implants in the presence of bacteria using single particle and single cell inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2021</b> , 36, 2007-2016	3.7	2
130	Ultra-Small Iron Nanoparticles Target Mitochondria Inducing Autophagy, Acting on Mitochondrial DNA and Reducing Respiration. <i>Pharmaceutics</i> , <b>2021</b> , 13,	6.4	5
129	The use of high performance liquid chromatographyInductively coupled plasma-mass spectrometry in the analysis of inorganic nanomaterials. <i>Comprehensive Analytical Chemistry</i> , <b>2021</b> , 285-301	1.9	1
128	Targeting HER2 protein in individual cells using ICP-MS detection and its potential as prognostic and predictive breast cancer biomarker. <i>Talanta</i> , <b>2021</b> , 235, 122773	6.2	2
127	Fragmentation of Proteins in the Corona of Gold Nanoparticles As Observed in Live Cell Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 8553-8560	7.8	14
126	Analytical strategies to study the formation and drug delivery capabilities of ferritin-encapsulated cisplatin in sensitive and resistant cell models. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 6319-6327	4.4	1
125	and experiments to evaluate the biodistribution and cellular toxicity of ultrasmall iron oxide nanoparticles potentially used as oral iron supplements. <i>Nanotoxicology</i> , <b>2020</b> , 14, 388-403	5.3	22
124	Addressing the presence of biogenic selenium nanoparticles in yeast cells: analytical strategies based on ICP-TQ-MS. <i>Analyst, The</i> , <b>2020</b> , 145, 1457-1465	5	21
123	Mass spectrometric approach for the analysis of the hard protein corona of nanoparticles in living cells. <i>Journal of Proteomics</i> , <b>2020</b> , 212, 103582	3.9	7
122	Single cell ICP-MS using on line sample introduction systems: Current developments and remaining challenges. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 132, 116042	14.6	21
121	Combined single cell and single particle ICP-TQ-MS analysis to quantitatively evaluate the uptake and biotransformation of tellurium nanoparticles in bacteria. <i>Analytica Chimica Acta</i> , <b>2020</b> , 1128, 116-128	6.6	14
120	Relating the composition and interface interactions in the hard corona of gold nanoparticles to the induced response mechanisms in living cells. <i>Nanoscale</i> , <b>2020</b> , 12, 17450-17461	7.7	10
119	In vitro study of the protective effect of manganese against vanadium-mediated nuclear and mitochondrial DNA damage. <i>Food and Chemical Toxicology</i> , <b>2020</b> , 135, 110900	4.7	9
118	Complementary techniques (spICP-MS, TEM, and HPLC-ICP-MS) reveal the degradation of 40 nm citrate-stabilized Au nanoparticles in rat liver after intraperitoneal injection. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2019</b> , 55, 1-5	4.1	10

117	Cytosolic copper is a major modulator of germination, development and secondary metabolism in <i>Streptomyces coelicolor</i> . <i>Scientific Reports</i> , <b>2019</b> , 9, 4214	4.9	10
116	Sensitive determination of the human epidermal growth factor receptor 2 (HER2) by immuno-polymerase chain reaction with inductively coupled plasma-mass spectrometry detection. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1090, 39-46	6.6	5
115	Quantitative Analysis of Transferrin Receptor 1 (TfR1) in Individual Breast Cancer Cells by Means of Labeled Antibodies and Elemental (ICP-MS) Detection. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 15532-15538	7.8	21
114	An inductively coupled plasma-mass spectrometry (ICP-MS) linked immunoassay by means of iodinated antibodies for transferrin quantitative analysis in breast cancer cell lines. <i>Talanta</i> , <b>2019</b> , 194, 336-342	6.2	7
113	Improved LC-MS/MS method for the quantification of hepcidin-25 in clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 3835-3846	4.4	14
112	Metformin regulates global DNA methylation via mitochondrial one-carbon metabolism. <i>Oncogene</i> , <b>2018</b> , 37, 963-970	9.2	65
111	Trends on (elemental and molecular) mass spectrometry based strategies for speciation and metallomics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2018</b> , 104, 4-10	14.6	23
110	Gold nanoparticles: Distribution, bioaccumulation and toxicity. In vitro and in vivo studies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2018</b> , 14, 1-12	6	146
109	Investigations of the Copper Peptide Hepcidin-25 by LC-MS/MS and NMR. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	11
108	Multiplex polymerase chain reaction in combination with gel electrophoresis-inductively coupled plasma mass spectrometry: A powerful tool for the determination of gene copy number variations and gene expression changes. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1023, 64-73	6.6	3
107	The Use of Stable Isotopic Tracers in Metallomics Studies. <i>Advances in Experimental Medicine and Biology</i> , <b>2018</b> , 1055, 111-137	3.6	4
106	Single particle analysis of TiO in candy products using triple quadrupole ICP-MS. <i>Talanta</i> , <b>2018</b> , 180, 309-315	6.1	36
105	Quantitative assessment of the metabolic products of iron oxide nanoparticles to be used as iron supplements in cell cultures. <i>Analytica Chimica Acta</i> , <b>2018</b> , 1039, 24-30	6.6	13
104	Evaluation of the uptake, storage and cell effects of nano-iron in enterocyte-like cell models. <i>Journal of Trace Elements in Medicine and Biology</i> , <b>2018</b> , 49, 98-104	4.1	6
103	Elemental labelling and mass spectrometry for the specific detection of sulfenic acid groups in model peptides: a proof of concept. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 2015-2027	4.4	19
102	Effect of vanadium on calcium homeostasis, osteopontin mRNA expression, and bone microarchitecture in diabetic rats. <i>Metallomics</i> , <b>2017</b> , 9, 258-267	4.5	8
101	Cisplatin resistance in cell models: evaluation of metallomic and biological predictive biomarkers to address early therapy failure. <i>Metallomics</i> , <b>2017</b> , 9, 564-574	4.5	17
100	Quantitative Evaluation of Cisplatin Uptake in Sensitive and Resistant Individual Cells by Single-Cell ICP-MS (SC-ICP-MS). <i>Analytical Chemistry</i> , <b>2017</b> , 89, 11491-11497	7.8	62

99	Detection of sulfenic acid in intact proteins by mass spectrometric techniques: application to serum samples. <i>RSC Advances</i> , <b>2017</b> , 7, 44162-44168	3.7	1
98	The fate of iron nanoparticles used for treatment of iron deficiency in blood using mass-spectrometry based strategies. <i>Mikrochimica Acta</i> , <b>2017</b> , 184, 3673-3680	5.8	9
97	Speciation of gold nanoparticles and low-molecular gold species in Wistar rat tissues by HPLC coupled to ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2017</b> , 32, 193-199	3.7	20
96	Iron speciation, ferritin concentrations and Fe : ferritin ratios in different malignant breast cancer cell lines: on the search for cancer biomarkers. <i>Metallomics</i> , <b>2016</b> , 8, 1090-1096	4.5	11
95	New strategy to address DNA-methyl transferase activity in ovarian cancer cell cultures by monitoring the formation of 5-methylcytosine using HPLC-UV. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , <b>2016</b> , 1028, 16-24	3.2	9
94	Initial results on the coupling of sedimentation field-flow fractionation (SdFFF) to inductively coupled plasma-tandem mass spectrometry (ICP-MS/MS) for the detection and characterization of TiO <sub>2</sub> nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 1549-1555	3.7	19
93	Metalloproteins <b>2016</b> , 339-357		3
92	HPLC-ICP-MS for simultaneous quantification of the total and active form of the thioredoxin reductase enzyme in human serum using auranofin as an activity-based probe. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2016</b> , 31, 1895-1903	3.7	2
91	Anion exchange chromatography for the determination of 5-methyl-2'deoxyctidine: application to cisplatin-sensitive and cisplatin-resistant ovarian cancer cell lines. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 2423-31	4.4	7
90	Reversed phase and cation exchange liquid chromatography with spectrophotometric and elemental/molecular mass spectrometric detection for S-adenosyl methionine/S-adenosyl homocysteine ratios as methylation index in cell cultures of ovarian cancer. <i>Journal of Chromatography B</i> , <b>2015</b> , 1003, 68-75	4.5	9
89	Determination of reduced homocysteine in human serum by elemental labelling and liquid chromatography with ICP-MS and ESI-MS detection. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 7899-906	4.4	16
88	Report on KOSMOS Summer University at the School of Analytical Sciences Adlershof (Berlin): limits and scales in analytical sciences. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 4869-72	4.4	1
87	Quantitative evaluation of cellular uptake, DNA incorporation and adduct formation in cisplatin sensitive and resistant cell lines: Comparison of different Pt-containing drugs. <i>Biochemical Pharmacology</i> , <b>2015</b> , 98, 69-77	6	36
86	Elemental and molecular mass spectrometric strategies for probing interactions between DNA and new Ru(II) complexes containing phosphane ligands and either a tris(pyrazol-1-yl)borate or a pyridine bis(oxazoline) ligand. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2015</b> , 30, 172-179	3.7	2
85	Hepcidin quantification: methods and utility in diagnosis. <i>Metallomics</i> , <b>2014</b> , 6, 1583-90	4.5	16
84	Evaluation of the biological effect of Ti generated debris from metal implants: ions and nanoparticles. <i>Metallomics</i> , <b>2014</b> , 6, 1702-8	4.5	63
83	Exposure to bis(maltolato)oxovanadium(IV) increases levels of hepcidin mRNA and impairs the homeostasis of iron but not that of manganese. <i>Food and Chemical Toxicology</i> , <b>2014</b> , 73, 113-8	4.7	11
82	Incorporation of (57)Fe-isotopically enriched in apoferritin: formation and characterization of isotopically enriched Fe nanoparticles for metabolic studies. <i>Analyst, The</i> , <b>2014</b> , 139, 5451-9	5	8

81	Changes in iron metabolism and oxidative status in STZ-induced diabetic rats treated with bis(maltolato) oxovanadium (IV) as an antidiabetic agent. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 706074 <sup>2</sup>	7.4	11
80	Enhanced detection of DNA sequences using end-point PCR amplification and online gel electrophoresis (GE)-ICP-MS: determination of gene copy number variations. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11028-32	7.8	11
79	Comparison of copper labeling followed by liquid chromatography-inductively coupled plasma mass spectrometry and immunochemical assays for serum hepcidin-25 determination. <i>Analytica Chimica Acta</i> , <b>2013</b> , 799, 1-7	6.6	8
78	Speciation of silver nanoparticles and silver(I) by reversed-phase liquid chromatography coupled to ICPMS. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 1316-21	7.8	114
77	Antibody labeling and elemental mass spectrometry (inductively coupled plasma-mass spectrometry) using isotope dilution for highly sensitive ferritin determination and iron-ferritin ratio measurements. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 8334-40	7.8	37
76	Aggravation by vanadium of magnesium deficiency in STZ-induced diabetic rats. <i>Magnesium Research</i> , <b>2013</b> , 26, 74-82	1.7	12
75	Absorption, transport and insulin-mimetic properties of bis(maltolato)oxovanadium (IV) in streptozotocin-induced hyperglycemic rats by integrated mass spectrometric techniques. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 277-85	4.4	22
74	Changes in the antioxidant defence and in selenium concentration in tissues of vanadium exposed rats. <i>Metallomics</i> , <b>2012</b> , 4, 814-9	4.5	17
73	Comparison of different methods for the absolute quantification of harbour seal transferrin glycoforms using HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2012</b> , 27, 440	3.7	9
72	Elemental mass spectrometry for Se-dependent glutathione peroxidase determination in red blood cells as oxidative stress biomarker. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2012</b> , 27, 1949	3.7	9
71	Elemental labeling and isotope dilution analysis for the quantification of the peptide hepcidin-25 in serum samples by HPLC-ICP-MS. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8133-9	7.8	17
70	ICP-MS for absolute quantification of proteins for heteroatom-tagged, targeted proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2012</b> , 40, 52-63	14.6	78
69	Effect of bis(maltolato)oxovanadium (IV) (BMOV) on selenium nutritional status in diabetic streptozotocin rats. <i>British Journal of Nutrition</i> , <b>2012</b> , 108, 893-9	3.6	12
68	Reduction of cisplatin-induced nephrotoxicity in vivo by selenomethionine: the effect on cisplatin-DNA adducts. <i>Chemical Research in Toxicology</i> , <b>2011</b> , 24, 896-904	4	20
67	Initial studies on quantitative DNA induced oxidation by gel electrophoresis (GE)-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2011</b> , 26, 195-200	3.7	12
66	Titanium preferential binding sites in human serum transferrin at physiological concentrations. <i>Metallomics</i> , <b>2011</b> , 3, 1297-303	4.5	20
65	Bioavailability, tissue distribution and hypoglycaemic effect of vanadium in magnesium-deficient rats. <i>Magnesium Research</i> , <b>2011</b> , 24, 196-208	1.7	21
64	Titanium release in serum of patients with different bone fixation implants and its interaction with serum biomolecules at physiological levels. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 2747-54	4.4	62

63	Species specific isotope dilution versus internal standardization strategies for the determination of Cu, Zn-superoxide dismutase in red blood cells. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2011</b> , 26, 150-155	3.7	16
62	Analysis of hepcidin, a key peptide for Fe homeostasis, via sulfur detection by capillary liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2011</b> , 26, 334-340	3.7	13
61	Quantitative targeted biomarker assay for glycated haemoglobin by multidimensional LC using mass spectrometric detection. <i>Journal of Proteomics</i> , <b>2011</b> , 74, 35-43	3.9	23
60	Quantitative analysis and simultaneous activity measurements of Cu, Zn-superoxide dismutase in red blood cells by HPLC-ICPMS. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 2387-94	7.8	48
59	Sample preparation strategies for quantitative analysis of catalase in red blood cells by elemental mass spectrometry. <i>Metallomics</i> , <b>2010</b> , 2, 638-45	4.5	4
58	Novel HPLC-ICP-MS strategy for the determination of beta2-transferrin, the biomarker of cerebrospinal fluid (CSF) leakage. <i>Analyst, The</i> , <b>2010</b> , 135, 1538-40	5	16
57	Quantitative methods for studying DNA interactions with chemotherapeutic cisplatin. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2010</b> , 29, 1390-1398	14.6	14
56	Enantioselective determination of thyroxine enantiomers by ligand-exchange CE with UV absorbance and ICP-MS detection. <i>Electrophoresis</i> , <b>2009</b> , 30, 1774-82	3.6	23
55	The potential of mass spectrometry to study iron-containing proteins used in clinical diagnosis. <i>Analytica Chimica Acta</i> , <b>2009</b> , 634, 1-14	6.6	18
54	Diophantine analysis complements electrospray-Q-TOF data for structure elucidation of transferrin glycoforms used for clinical diagnosis in human serum and cerebrospinal fluid. <i>Proteomics</i> , <b>2009</b> , 9, 1109-13	4.8	6
53	Quantitative profiling of in vivo generated cisplatin-DNA adducts using different isotope dilution strategies. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 9553-60	7.8	24
52	Biospeciation of various antidiabetic V(IV)O compounds in serum. <i>Dalton Transactions</i> , <b>2009</b> , 2428-37	4.3	100
51	Metal release in patients with total hip arthroplasty by DF-ICP-MS and their association to serum proteins. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2009</b> , 24, 1037	3.7	25
50	Atomic (HPLC-ICP-MS) and molecular mass spectrometry (ESI-Q-TOF) to study cis-platin interactions with serum proteins. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2008</b> , 23, 378-384	3.7	45
49	Stable isotope labelling and FPLC-ICP-SFMS for the accurate determination of clinical iron status parameters in human serum. <i>Analyst, The</i> , <b>2008</b> , 133, 379-84	5	38
48	Enantioselective determination of the organochlorine pesticide bromocyclen in spiked fish tissue using solid-phase microextraction coupled to gas chromatography with ECD and ICP-MS detection. <i>Talanta</i> , <b>2008</b> , 75, 710-6	6.2	20
47	Simultaneous determination of glycated haemoglobin, a long term biomarker of diabetes mellitus, and total haemoglobin by isotope dilution and HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2008</b> , 23, 758	3.7	22
46	Elemental mass spectrometry for quantitative proteomics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 3-16	4.4	115

45	In vivo detection of DNA adducts induced by cisplatin using capillary HPLC-ICP-MS and their correlation with genotoxic damage in <i>Drosophila melanogaster</i> . <i>Analytical and Bioanalytical Chemistry</i> , <b>2008</b> , 390, 37-44	4.4	44
44	A novel approach for analysis of oligonucleotide-cisplatin interactions by continuous elution gel electrophoresis coupled to isotope dilution inductively coupled plasma mass spectrometry and matrix-assisted laser desorption/ionization mass spectrometry. <i>Electrophoresis</i> , <b>2008</b> , 29, 1451-9	3.6	24
43	Study of phytochelatins and other related thiols as complexing biomolecules of As and Cd in wild type and genetically modified <i>Brassica juncea</i> plants. <i>Journal of Mass Spectrometry</i> , <b>2006</b> , 41, 323-31	2.2	31
42	SPME-enantioselective gas chromatography with ECD and ICP-MS detection for the chiral speciation of the pesticide ruelene in environmental samples. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2006</b> , 21, 876-883	3.7	16
41	Speciation studies of cis-platin adducts with DNA nucleotides via elemental specific detection (P and Pt) using liquid chromatography-inductively coupled plasma-mass spectrometry and structural characterization by electrospray mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2006</b> , 21, 861-868	3.7	46
40	Selenium species in aqueous extracts of alfalfa sprouts by two-dimensional liquid chromatography coupled to inductively coupled plasma mass spectrometry and electrospray mass spectrometry detection. <i>Journal of Agricultural and Food Chemistry</i> , <b>2006</b> , 54, 4524-30	5.7	21
39	Accurate determination of human serum transferrin isoforms: Exploring metal-specific isotope dilution analysis as a quantitative proteomic tool. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 8218-26	7.8	80
38	Overexpressing both ATP sulfurylase and selenocysteine methyltransferase enhances selenium phytoremediation traits in Indian mustard. <i>Environmental Pollution</i> , <b>2006</b> , 144, 70-6	9.3	126
37	Evaluation of different sample extraction strategies for selenium determination in selenium-enriched plants ( <i>Allium sativum</i> and <i>Brassica juncea</i> ) and Se speciation by HPLC-ICP-MS. <i>Talanta</i> , <b>2006</b> , 68, 1287-93	6.2	79
36	Direct comparison of capillary electrophoresis and capillary liquid chromatography hyphenated to collision-cell inductively coupled plasma mass spectrometry for the investigation of Cd-, Cu- and Zn-containing metalloproteins. <i>Journal of Chromatography A</i> , <b>2006</b> , 1114, 138-44	4.5	52
35	Integrated mass spectrometry in (semi-)metal speciation and its potential in phytochemistry. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2006</b> , 25, 44-51	14.6	16
34	Complementary FPLC-ICP-MS and MALDI-TOF for studying vanadium association to human serum proteins. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 210-215	3.7	25
33	Determination of organophosphorus pesticides in spiked river water samples using solid phase microextraction coupled to gas chromatography with EI-MS and ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2005</b> , 20, 876	3.7	22
32	Strategies to study human serum transferrin isoforms using integrated liquid chromatography ICPMS, MALDI-TOF, and ESI-Q-TOF detection: application to chronic alcohol abuse. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 5615-21	7.8	87
31	Detection of transferrin isoforms in human serum: comparison of UV and ICP-MS detection after CZE and HPLC separations. <i>Analytical and Bioanalytical Chemistry</i> , <b>2005</b> , 383, 390-7	4.4	24
30	Identification and characterization of Se-methyl selenomethionine in <i>Brassica juncea</i> roots. <i>Journal of Chromatography A</i> , <b>2004</b> , 1026, 159-66	4.5	48
29	Characterization, biological interactions and in-vivo detection of selenotrisulfide derivatives of glutathion, cysteine and homocysteine by HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2004</b> , 19, 1128-1133	3.7	23
28	HPLC-ICP-MS and ESI-Q-TOF analysis of biomolecules induced in <i>Brassica juncea</i> during arsenic accumulation. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2004</b> , 19, 153-158	3.7	31

27	Overexpression of selenocysteine methyltransferase in Arabidopsis and Indian mustard increases selenium tolerance and accumulation. <i>Plant Physiology</i> , <b>2004</b> , 135, 377-83	6.6	239
26	Metal speciation in biomolecules. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 376, 287-8	4.4	4
25	Determination of total homocysteine in human serum by capillary gas chromatography with sulfur-specific detection by double focusing ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 377, 299-305	4.4	28
24	Trace element speciation by ICP-MS in large biomolecules and its potential for proteomics. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 377, 236-47	4.4	133
23	Marfey's reagent: Past, present, and future uses of 1-fluoro-2,4-dinitrophenyl-5-L-alanine amide. <i>Journal of Separation Science</i> , <b>2003</b> , 26, 7-19	3.4	84
22	Liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , <b>2003</b> , 1000, 457-76	4.5	162
21	Elemental speciation studies--new directions for trace metal analysis. <i>Ecotoxicology and Environmental Safety</i> , <b>2003</b> , 56, 148-63	7	80
20	Studies of selenium-containing volatiles in roasted coffee. <i>Journal of Agricultural and Food Chemistry</i> , <b>2003</b> , 51, 5116-22	5.7	37
19	Use of optional gas and collision cell for enhanced sensitivity of the organophosphorus pesticides by GC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2003</b> , 18, 1097-1102	3.7	35
18	A study of method robustness for arsenic speciation in drinking water samples by anion exchange HPLC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 373, 664-8	4.4	50
17	Trace element determination in vitamin E using ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2002</b> , 374, 230-4	4.4	15
16	Elemental speciation by chromatographic separation with inductively coupled plasma mass spectrometry detection. <i>Journal of Chromatography A</i> , <b>2002</b> , 974, 1-21	4.5	58
15	Characterization of selenium species in Brazil nuts by HPLC-ICP-MS and ES-MS. <i>Journal of Agricultural and Food Chemistry</i> , <b>2002</b> , 50, 5722-8	5.7	114
14	Development and application of a method for the analysis of brominated flame retardants by fast gas chromatography with inductively coupled plasma mass spectrometric detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 1480-1485	3.7	41
13	Initial studies of selenium speciation in Brassica juncea by LC with ICPMS and ES-MS detection: an approach for phytoremediation studies. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 107-13	7.8	95
12	Simultaneous monitoring of volatile selenium and sulfur species from selenium accumulating plants (wild type and genetically modified) by GC/MS and GC/ICPMS using solid-phase microextraction for sample introduction. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 5837-44	7.8	113
11	Selenium in plants by mass spectrometric techniques: developments in bio-analytical methods. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 1015-1023	3.7	43
10	Selenium speciation in wild-type and genetically modified Se accumulating plants with HPLC separation and ICP-MS/ES-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 872-879	3.7	62



9	Chiral speciation of Marfey's derivatized DL-selenomethionine using capillary electrophoresis with UV and ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2002</b> , 17, 27-31	3.7	39
8	Solid-phase microextraction as a sample preparation strategy for the analysis of seleno amino acids by gas chromatography-inductively coupled plasma mass spectrometry. <i>Analyst, The</i> , <b>2002</b> , 127, 49-53	5	51
7	Resolution of seleno-amino acid optical isomers using chiral derivatization and inductively coupled plasma mass spectrometric (ICP-MS) detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2001</b> , 16, 945-950	3.7	31
6	Gas chromatography double focusing sector-field ICP-MS as an innovative tool for bad breath research. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2001</b> , 16, 1051-1056	3.7	19
5	The use of radiofrequency glow discharge-mass spectrometry (rf-GD-MS) coupled to gas chromatography for the determination of selenoaminoacids in biological samples. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2001</b> , 16, 492-497	3.7	18
4	Indirect determination of trace amounts of fluoride in natural waters by ion chromatography: a comparison of on-line post-column fluorimetry and ICP-MS detectors. <i>Analyst, The</i> , <b>1999</b> , 124, 27-31	5	46
3	Semiquantitative elemental analysis of water samples using double focusing inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , <b>1998</b> , 13, 1027-1032	3.7	18
2	Speciation of basal aluminium in human serum by fast protein liquid chromatography with inductively coupled plasma mass spectrometric detection. <i>Analyst, The</i> , <b>1998</b> , 123, 865-9	5	56
1	The effect of two gases forming supercritical fluids (Xe and CO <sub>2</sub> ) on the spectral characteristics and analytical capabilities of microwave induced plasmas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>1996</b> , 51, 685-695	3.1	4