

Maria Montes-Bayon

List of Publications by Citations

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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	Overexpression of selenocysteine methyltransferase in Arabidopsis and Indian mustard increases selenium tolerance and accumulation. <i>Plant Physiology</i> , 2004 , 135, 377-83	6.6	239
133	Liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Chromatography A</i> , 2003 , 1000, 457-76	4.5	162
132	Gold nanoparticles: Distribution, bioaccumulation and toxicity. In vitro and in vivo studies. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018 , 14, 1-12	6	146
131	Trace element speciation by ICP-MS in large biomolecules and its potential for proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 377, 236-47	4.4	133
130	Overexpressing both ATP sulfurylase and selenocysteine methyltransferase enhances selenium phytoremediation traits in Indian mustard. <i>Environmental Pollution</i> , 2006 , 144, 70-6	9.3	126
129	Elemental mass spectrometry for quantitative proteomics. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 3-16	4.4	115
128	Speciation of silver nanoparticles and silver(I) by reversed-phase liquid chromatography coupled to ICPMS. <i>Analytical Chemistry</i> , 2013 , 85, 1316-21	7.8	114
127	Characterization of selenium species in Brazil nuts by HPLC-ICP-MS and ES-MS. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 5722-8	5.7	114
126	Simultaneous monitoring of volatile selenium and sulfur species from se accumulating plants (wild type and genetically modified) by GC/MS and GC/ICPMS using solid-phase microextraction for sample introduction. <i>Analytical Chemistry</i> , 2002 , 74, 5837-44	7.8	113
125	Biospeciation of various antidiabetic V(IV)O compounds in serum. <i>Dalton Transactions</i> , 2009 , 2428-37	4.3	100
124	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> , 2002 , 74, 107-13	7.8	95
123	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> , 2005 , 77, 5615-21	7.8	87
122	Marfey's reagent: Past, present, and future uses of 1-fluoro-2,4-dinitrophenyl-5-L-alanine amide. <i>Journal of Separation Science</i> , 2003 , 26, 7-19	3.4	84
121	Accurate determination of human serum transferrin isoforms: Exploring metal-specific isotope dilution analysis as a quantitative proteomic tool. <i>Analytical Chemistry</i> , 2006 , 78, 8218-26	7.8	80
120	Elemental speciation studies--new directions for trace metal analysis. <i>Ecotoxicology and Environmental Safety</i> , 2003 , 56, 148-63	7	80
119	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> , 2006 , 68, 1287-93	6.2	79
118	ICP-MS for absolute quantification of proteins for heteroatom-tagged, targeted proteomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 40, 52-63	14.6	78

117	Metformin regulates global DNA methylation via mitochondrial one-carbon metabolism. <i>Oncogene</i> , 2018 , 37, 963-970	9.2	65
116	Evaluation of the biological effect of Ti generated debris from metal implants: ions and nanoparticles. <i>Metallomics</i> , 2014 , 6, 1702-8	4.5	63
115	Quantitative Evaluation of Cisplatin Uptake in Sensitive and Resistant Individual Cells by Single-Cell ICP-MS (SC-ICP-MS). <i>Analytical Chemistry</i> , 2017 , 89, 11491-11497	7.8	62
114	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> , 2011 , 401, 2747-54	4.4	62
113	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> , 2002 , 17, 872-879	3.7	62
112	Elemental speciation by chromatographic separation with inductively coupled plasma mass spectrometry detection. <i>Journal of Chromatography A</i> , 2002 , 974, 1-21	4.5	58
111	Speciation of basal aluminium in human serum by fast protein liquid chromatography with inductively coupled plasma mass spectrometric detection. <i>Analyst, The</i> , 1998 , 123, 865-9	5	56
110	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> , 2006 , 1114, 138-44	4.5	52
109	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> , 2002 , 127, 49-53	5	51
108	A study of method robustness for arsenic speciation in drinking water samples by anion exchange HPLC-ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 664-8	4.4	50
107	Quantitative analysis and simultaneous activity measurements of Cu, Zn-superoxide dismutase in red blood cells by HPLC-ICPMS. <i>Analytical Chemistry</i> , 2010 , 82, 2387-94	7.8	48
106	Identification and characterization of Se-methyl selenomethionine in Brassica juncea roots. <i>Journal of Chromatography A</i> , 2004 , 1026, 159-66	4.5	48
105	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> , 2006 , 21, 861-868	3.7	46
104	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> , 1999 , 124, 27-31	5	46
103	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> , 2008 , 23, 378-384	3.7	45
102	In vivo detection of DNA adducts induced by cisplatin using capillary HPLC-ICP-MS and their correlation with genotoxic damage in Drosophila melanogaster. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 37-44	4.4	44
101	Selenium in plants by mass spectrometric techniques: developments in bio-analytical methods. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 1015-1023	3.7	43
100	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> , 2002 , 17, 1480-1485	3.7	41

99	Chiral speciation of Marfey's derivatized DL-selenomethionine using capillary electrophoresis with UV and ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 27-31	3.7	39
98	Stable isotope labelling and FPLC-ICP-SFMS for the accurate determination of clinical iron status parameters in human serum. <i>Analyst, The</i> , 2008 , 133, 379-84	5	38
97	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> , 2013 , 85, 8334-40	7.8	37
96	Studies of selenium-containing volatiles in roasted coffee. <i>Journal of Agricultural and Food Chemistry</i> , 2003 , 51, 5116-22	5.7	37
95	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> , 2015 , 98, 69-77	6	36
94	Single particle analysis of TiO ₂ in candy products using triple quadrupole ICP-MS. <i>Talanta</i> , 2018 , 180, 309-315	3.15	36
93	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> , 2003 , 18, 1097-1102	3.7	35
92	Study of phytochelatins and other related thiols as complexing biomolecules of As and Cd in wild type and genetically modified Brassica juncea plants. <i>Journal of Mass Spectrometry</i> , 2006 , 41, 323-31	2.2	31
91	HPLC-ICP-MS and ESI-Q-TOF analysis of biomolecules induced in Brassica juncea during arsenic accumulation. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 153-158	3.7	31
90	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> , 2001 , 16, 945-950	3.7	31
89	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> , 2003 , 377, 299-305	4.4	28
88	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> , 2009 , 24, 1037	3.7	25
87	Complementary FPLC-ICP-MS and MALDI-TOF for studying vanadium association to human serum proteins. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 210-215	3.7	25
86	Quantitative profiling of in vivo generated cisplatin-DNA adducts using different isotope dilution strategies. <i>Analytical Chemistry</i> , 2009 , 81, 9553-60	7.8	24
85	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> , 2008 , 29, 1451-9	3.6	24
84	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> , 2005 , 383, 390-7	4.4	24
83	Trends on (elemental and molecular) mass spectrometry based strategies for speciation and metallomics. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 4-10	14.6	23
82	Enantioselective determination of thyroxine enantiomers by ligand-exchange CE with UV absorbance and ICP-MS detection. <i>Electrophoresis</i> , 2009 , 30, 1774-82	3.6	23

81	Quantitative targeted biomarker assay for glycated haemoglobin by multidimensional LC using mass spectrometric detection. <i>Journal of Proteomics</i> , 2011 , 74, 35-43	3.9	23
80	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> , 2004 , 19, 1128-1133	3.7	23
79	and experiments to evaluate the biodistribution and cellular toxicity of ultrasmall iron oxide nanoparticles potentially used as oral iron supplements. <i>Nanotoxicology</i> , 2020 , 14, 388-403	5.3	22
78	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> , 2012 , 402, 277-85	4.4	22
77	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> , 2008 , 23, 758	3.7	22
76	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> , 2005 , 20, 876	3.7	22
75	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> , 2019 , 91, 15532-15538	7.8	21
74	Bioavailability, tissue distribution and hypoglycaemic effect of vanadium in magnesium-deficient rats. <i>Magnesium Research</i> , 2011 , 24, 196-208	1.7	21
73	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> , 2006 , 54, 4524-30	5.7	21
72	Addressing the presence of biogenic selenium nanoparticles in yeast cells: analytical strategies based on ICP-TQ-MS. <i>Analyst, The</i> , 2020 , 145, 1457-1465	5	21
71	Single cell ICP-MS using on line sample introduction systems: Current developments and remaining challenges. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 132, 116042	14.6	21
70	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> , 2017 , 32, 193-199	3.7	20
69	Reduction of cisplatin-induced nephrotoxicity in vivo by selenomethionine: the effect on cisplatin-DNA adducts. <i>Chemical Research in Toxicology</i> , 2011 , 24, 896-904	4	20
68	Titanium preferential binding sites in human serum transferrin at physiological concentrations. <i>Metallomics</i> , 2011 , 3, 1297-303	4.5	20
67	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> , 2008 , 75, 710-6	6.2	20
66	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> , 2017 , 409, 2015-2027	4.4	19
65	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 ₂ nanoparticles. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 1549-1555	3.7	19
64	Gas chromatography double focusing sector-field ICP-MS as an innovative tool for bad breath research. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 1051-1056	3.7	19

63	The potential of mass spectrometry to study iron-containing proteins used in clinical diagnosis. <i>Analytica Chimica Acta</i> , 2009 , 634, 1-14	6.6	18
62	Semiquantitative elemental analysis of water samples using double focusing inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 1027-1032	3.7	18
61	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> , 2001 , 16, 492-497	3.7	18
60	Cisplatin resistance in cell models: evaluation of metallomic and biological predictive biomarkers to address early therapy failure. <i>Metallomics</i> , 2017 , 9, 564-574	4.5	17
59	Changes in the antioxidant defence and in selenium concentration in tissues of vanadium exposed rats. <i>Metallomics</i> , 2012 , 4, 814-9	4.5	17
58	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> , 2012 , 84, 8133-9	7.8	17
57	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> , 2015 , 407, 7899-906	4.4	16
56	Hepcidin quantification: methods and utility in diagnosis. <i>Metallomics</i> , 2014 , 6, 1583-90	4.5	16
55	Novel HPLC-ICP-MS strategy for the determination of beta2-transferrin, the biomarker of cerebrospinal fluid (CSF) leakage. <i>Analyst, The</i> , 2010 , 135, 1538-40	5	16
54	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> , 2011 , 26, 150-155	3.7	16
53	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> , 2006 , 21, 876-883	3.7	16
52	Integrated mass spectrometry in (semi-)metal speciation and its potential in phytochemistry. <i>TrAC - Trends in Analytical Chemistry</i> , 2006 , 25, 44-51	14.6	16
51	Trace element determination in vitamin E using ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 230-4	4.4	15
50	Fragmentation of Proteins in the Corona of Gold Nanoparticles As Observed in Live Cell Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 2020 , 92, 8553-8560	7.8	14
49	Improved LC-MS/MS method for the quantification of hepcidin-25 in clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 3835-3846	4.4	14
48	Quantitative methods for studying DNA interactions with chemotherapeutic cisplatin. <i>TrAC - Trends in Analytical Chemistry</i> , 2010 , 29, 1390-1398	14.6	14
47	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> , 2020 , 1128, 116-128	6.6	14
46	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> , 2011 , 26, 334-340	3.7	13

45	Quantitative assessment of the metabolic products of iron oxide nanoparticles to be used as iron supplements in cell cultures. <i>Analytica Chimica Acta</i> , 2018 , 1039, 24-30	6.6	13
44	Aggravation by vanadium of magnesium deficiency in STZ-induced diabetic rats. <i>Magnesium Research</i> , 2013 , 26, 74-82	1.7	12
43	Initial studies on quantitative DNA induced oxidation by gel electrophoresis (GE)-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 195-200	3.7	12
42	Effect of bis(maltolato)oxovanadium (IV) (BMOV) on selenium nutritional status in diabetic streptozotocin rats. <i>British Journal of Nutrition</i> , 2012 , 108, 893-9	3.6	12
41	Iron speciation, ferritin concentrations and Fe : ferritin ratios in different malignant breast cancer cell lines: on the search for cancer biomarkers. <i>Metallomics</i> , 2016 , 8, 1090-1096	4.5	11
40	Investigations of the Copper Peptide Hepcidin-25 by LC-MS/MS and NMR. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	11
39	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> , 2014 , 73, 113-8	4.7	11
38	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> , 2014 , 2014, 706074	7.2	11
37	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> , 2014 , 86, 11028-32	7.8	11
36	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> , 2019 , 55, 1-5	4.1	10
35	Cytosolic copper is a major modulator of germination, development and secondary metabolism in <i>Streptomyces coelicolor</i> . <i>Scientific Reports</i> , 2019 , 9, 4214	4.9	10
34	Relating the composition and interface interactions in the hard corona of gold nanoparticles to the induced response mechanisms in living cells. <i>Nanoscale</i> , 2020 , 12, 17450-17461	7.7	10
33	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> , 2021 , 1159, 338356	6.6	10
32	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: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017 , 1033, 26-37	4.5	9
31	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> , 2016 , 1028, 16-24	3.2	9
30	The fate of iron nanoparticles used for treatment of iron deficiency in blood using mass-spectrometry based strategies. <i>Mikrochimica Acta</i> , 2017 , 184, 3673-3680	5.8	9
29	Comparison of different methods for the absolute quantification of harbour seal transferrin glycoforms using HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 440	3.7	9
28	Elemental mass spectrometry for Se-dependent glutathione peroxidase determination in red blood cells as oxidative stress biomarker. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 1949	3.7	9

27	In vitro study of the protective effect of manganese against vanadium-mediated nuclear and mitochondrial DNA damage. <i>Food and Chemical Toxicology</i> , 2020 , 135, 110900	4.7	9
26	Effect of vanadium on calcium homeostasis, osteopontin mRNA expression, and bone microarchitecture in diabetic rats. <i>Metallomics</i> , 2017 , 9, 258-267	4.5	8
25	Incorporation of (57)Fe-isotopically enriched in apoferritin: formation and characterization of isotopically enriched Fe nanoparticles for metabolic studies. <i>Analyst, The</i> , 2014 , 139, 5451-9	5	8
24	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> , 2013 , 799, 1-7	6.6	8
23	Anion exchange chromatography for the determination of 5-methyl-2-deoxycytidine: application to cisplatin-sensitive and cisplatin-resistant ovarian cancer cell lines. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 2423-31	4.4	7
22	Mass spectrometric approach for the analysis of the hard protein corona of nanoparticles in living cells. <i>Journal of Proteomics</i> , 2020 , 212, 103582	3.9	7
21	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> , 2019 , 194, 336-342	6.2	7
20	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> , 2009 , 9, 1109-13	4.8	6
19	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> , 2018 , 49, 98-104	4.1	6
18	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> , 2019 , 1090, 39-46	6.6	5
17	Ultra-Small Iron Nanoparticles Target Mitochondria Inducing Autophagy, Acting on Mitochondrial DNA and Reducing Respiration. <i>Pharmaceutics</i> , 2021 , 13,	6.4	5
16	The Use of Stable Isotopic Tracers in Metallomics Studies. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1055, 111-137	3.6	4
15	Sample preparation strategies for quantitative analysis of catalase in red blood cells by elemental mass spectrometry. <i>Metallomics</i> , 2010 , 2, 638-45	4.5	4
14	Metal speciation in biomolecules. <i>Analytical and Bioanalytical Chemistry</i> , 2003 , 376, 287-8	4.4	4
13	The effect of two gases forming supercritical fluids (Xe and CO ₂) on the spectral characteristics and analytical capabilities of microwave induced plasmas. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 1996 , 51, 685-695	3.1	4
12	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> , 2018 , 1023, 64-73	6.6	3
11	Vanadium Decreases Hepcidin mRNA Gene Expression in STZ-Induced Diabetic Rats, Improving the Anemic State. <i>Nutrients</i> , 2021 , 13,	6.7	3
10	Metalloproteins 2016 , 339-357		3

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| 9 | 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> , 2015 , 30, 172-179 | 3.7 | 2 |
| 8 | 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> , 2016 , 31, 1895-1903 | 3.7 | 2 |
| 7 | 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> , 2021 , 36, 2007-2016 | 3.7 | 2 |
| 6 | Targeting HER2 protein in individual cells using ICP-MS detection and its potential as prognostic and predictive breast cancer biomarker. <i>Talanta</i> , 2021 , 235, 122773 | 6.2 | 2 |
| 5 | 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> , 2015 , 407, 4869-72 | 4.4 | 1 |
| 4 | 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> , 2020 , 412, 6319-6327 | 4.4 | 1 |
| 3 | Detection of sulfenic acid in intact proteins by mass spectrometric techniques: application to serum samples. <i>RSC Advances</i> , 2017 , 7, 44162-44168 | 3.7 | 1 |
| 2 | Effect of Bis(maltolato)oxovanadium(IV) on Zinc, Copper, and Manganese Homeostasis and DMT1 mRNA Expression in Streptozotocin-Induced Hyperglycemic Rats. <i>Biology</i> , 2022 , 11, 814 | 4.9 | 0 |
| 1 | The use of high performance liquid chromatography-inductively coupled plasma-mass spectrometry in the analysis of inorganic nanomaterials. <i>Comprehensive Analytical Chemistry</i> , 2021 , 285-301 | 1.9 | 1 |