

Joanna Szpunar

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137
papers

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48
h-index

72
g-index

142
ext. papers

6,559
ext. citations

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avg, IF

5.94
L-index

#	Paper	IF	Citations
137	Advances in analytical methodology for bioinorganic speciation analysis: metallomics, metalloproteomics and heteroatom-tagged proteomics and metabolomics. <i>Analyst, The</i> , 2005 , 130, 442-55	5.85	340
136	Metallomics: the concept and methodology. <i>Chemical Society Reviews</i> , 2009 , 38, 1119-38	58.5	265
135	Bio-inorganic speciation analysis by hyphenated techniques. <i>Analyst, The</i> , 2000 , 125, 963-88	5	238
134	Mass spectrometry in bioinorganic analytical chemistry. <i>Mass Spectrometry Reviews</i> , 2006 , 25, 255-89	11	173
133	Metallomics: a new frontier in analytical chemistry. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 378, 54-6	4.4	173
132	Hyphenated techniques for elemental speciation in biological systems. <i>Applied Spectroscopy</i> , 2003 , 57, 102A-112A	3.1	128
131	Identification of water-soluble selenium-containing proteins in selenized yeast by size-exclusion-reversed-phase HPLC/ICPMS followed by MALDI-TOF and electrospray Q-TOF mass spectrometry. <i>Analytical Chemistry</i> , 2003 , 75, 3765-74	7.8	123
130	Sample preparation and HPLC separation approaches to speciation analysis of selenium in yeast by ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 645-650	3.7	118
129	Speciation analysis of selenium in garlic by two-dimensional high-performance liquid chromatography with parallel inductively coupled plasma mass spectrometric and electrospray tandem mass spectrometric detection. <i>Analytica Chimica Acta</i> , 2000 , 421, 147-153	6.6	103
128	Rapid speciation of butyltin compounds in sediments and biomaterials by capillary gas chromatography-microwave-induced plasma atomic emission spectrometry after microwave-assisted leaching/digestion. <i>Journal of Analytical Atomic Spectrometry</i> , 1996 , 11, 193-199	3.7	94
127	An approach to the identification of selenium species in yeast extracts using pneumatically-assisted electrospray tandem mass spectrometry. <i>Analytical Communications</i> , 1999 , 36, 77-80		92
126	Determination of selenocysteine and selenomethionine in edible animal tissues by 2D size-exclusion reversed-phase HPLC-ICP MS following carbamidomethylation and proteolytic extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 1789-98	4.4	90
125	Gas chromatography with inductively coupled plasma mass spectrometric detection in speciation analysis. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2002 , 57, 805-828	3.1	89
124	The speciation of arsenic in biological tissues and the certification of reference materials for quality control. <i>TrAC - Trends in Analytical Chemistry</i> , 2003 , 22, 191-209	14.6	87
123	Investigation of metal/drug/protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS). <i>Analytica Chimica Acta</i> , 1999 , 387, 135-144	6.6	87
122	Multidimensional approaches in biochemical speciation analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 373, 404-11	4.4	82
121	Ultratrace determination of uranium and plutonium by nano-volume flow injection double-focusing sector field inductively coupled plasma mass spectrometry (nFICP-SFMS). <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 17-21	3.7	80

120	State of the art report of selenium speciation in biological samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 639-654	3.7	80
119	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, 168-80	4.4	79
118	Interfacing reversed-phase nanoHPLC with ICP-MS and on-line isotope dilution analysis for the accurate quantification of selenium-containing peptides in protein tryptic digests. <i>Journal of Analytical Atomic Spectrometry</i> , 2005 , 20, 1101	3.7	77
117	Discrimination of geographical origin of rice based on multi-element fingerprinting by high resolution inductively coupled plasma mass spectrometry. <i>Food Chemistry</i> , 2013 , 141, 3504-9	8.5	75
116	Characterization of arsenic species in kidney of the clam <i>Tridacna derasa</i> by multidimensional liquid chromatography-ICPMS and electrospray time-of-flight tandem mass spectrometry. <i>Analytical Chemistry</i> , 2002 , 74, 2370-8	7.8	75
115	Speciation of seleno compounds in yeast aqueous extracts by three-dimensional liquid chromatography with inductively coupled plasma mass spectrometric and electrospray mass spectrometric detection. <i>Analyst, The</i> , 2002 , 127, 223-9	5	74
114	Determination of rare earth elements in wine by inductively coupled plasma mass spectrometry using a microconcentric nebulizer. <i>Journal of Analytical Atomic Spectrometry</i> , 1996 , 11, 713-721	3.7	74
113	Development of a nebulizer for a sheathless interfacing of NanoHPLC and ICPMS. <i>Analytical Chemistry</i> , 2006 , 78, 965-71	7.8	72
112	Methodological advances for selenium speciation analysis in yeast. <i>Analytica Chimica Acta</i> , 2003 , 500, 171-183	6.6	72
111	Comprehensive speciation of selenium in selenium-rich yeast. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 41, 122-132	14.6	70
110	Speciation analysis for iodine in milk by size-exclusion chromatography with inductively coupled plasma mass spectrometric detection (SEC-ICP MS). <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1697-1702	3.7	70
109	Analysis for selenium speciation in selenized yeast extracts by two-dimensional liquid chromatography with ICP-MS and electrospray MS-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 68-73	3.7	66
108	Precolumn isotope dilution analysis in nanoHPLC-ICPMS for absolute quantification of sulfur-containing peptides. <i>Analytical Chemistry</i> , 2007 , 79, 2859-68	7.8	64
107	Biochemical speciation analysis by hyphenated techniques. <i>Analytica Chimica Acta</i> , 1999 , 400, 321-332	6.6	64
106	Determination of selenomethionine, selenocysteine, and inorganic selenium in eggs by HPLC-inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 397, 731-41	4.4	63
105	A systematic approach to selenium speciation in selenized yeast. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 114-120	3.7	62
104	Identification of selenocompounds in yeast by electrospray quadrupole-time of flight mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 507-514	3.7	61
103	Analysis for metal complexes with metallothionein in rat liver by capillary zone electrophoresis using ICP double-focussing sector-field isotope dilution MS and electrospray MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 908-912	3.7	59

102	Investigation of arsenic speciation in oyster test reference material by multidimensional HPLC-ICP-MS and electrospray tandem mass spectrometry (ES-MS-MS). <i>Analyst, The</i> , 2001 , 126, 1055-62 ⁵	59
101	Complementarity of MALDI and LA ICP mass spectrometry for platinum anticancer imaging in human tumor. <i>Metallomics</i> , 2014 , 6, 1382-6	4.5 57
100	Multidimensional liquid chromatography with parallel ICP MS and electrospray MS/MS detection as a tool for the characterization of arsenic species in algae. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 372, 457-66	4.4 57
99	Speciation of cadmium in plant tissues by size-exclusion chromatography with ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1557-1566	3.7 57
98	Single particle ICP-MS characterization of platinum nanoparticles uptake and bioaccumulation by <i>Lepidium sativum</i> and <i>Sinapis alba</i> plants. <i>Journal of Analytical Atomic Spectrometry</i> , 2016 , 31, 2321-2329 ^{3.7}	56
97	Identification of dimethylarsinoyl-riboside derivatives in seaweed by pneumatically assisted electrospray tandem mass spectrometry. <i>Analytica Chimica Acta</i> , 2000 , 410, 71-84	6.6 55
96	Detection of selenocompounds in a tryptic digest of yeast selenoprotein by MALDI time-of-flight MS prior to their structural analysis by electrospray ionization triple quadrupole MS. <i>Analyst, The</i> , 2003 , 128, 220-4	5 54
95	Speciation of arsenic in edible algae by bi-dimensional size-exclusion anion exchange HPLC with dual ICP-MS and electrospray MS/MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 79-87 ^{3.7}	54
94	Speciation analysis for biomolecular complexes of lead in wine by size-exclusion high-performance liquid chromatography-inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 749-754	3.7 53
93	Investigation of metal complexes with metallothionein in rat tissues by hyphenated techniques. <i>Journal of Inorganic Biochemistry</i> , 2002 , 88, 197-206	4.2 53
92	Trace element speciation analysis of biomaterials by high-performance liquid chromatography with inductively coupled plasma mass spectrometric detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2000 , 19, 127-137	14.6 53
91	Complementarity of multidimensional HPLC-ICP-MS and electrospray MS/MS for speciation analysis of arsenic in algae. <i>Analytica Chimica Acta</i> , 2001 , 440, 3-16	6.6 52
90	Speciation analysis for organotin compounds in biomaterials after integrated dissolution, extraction, and derivatization in a focused microwave field. <i>Analytical Chemistry</i> , 1996 , 68, 4135-40	7.8 50
89	An insight into silver nanoparticles bioavailability in rats. <i>Metallomics</i> , 2014 , 6, 2242-9	4.5 48
88	Speciation analysis for organotin compounds in sediments by capillary gas chromatography with flame photometric detection after microwave-assisted acid leaching. <i>Analyst, The</i> , 1995 , 120, 2665-2673 ⁵	48
87	Investigation of the recovery of selenomethionine from selenized yeast by two-dimensional LC-ICP MS. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 381, 844-9	4.4 47
86	Selenopeptide mapping in a selenium yeast protein digest by parallel nanoHPLC-ICP-MS and nanoHPLC-electrospray-MS/MS after on-line preconcentration. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 26-32	3.7 46
85	Analysis of selenized yeast for selenium speciation by size-exclusion chromatography and capillary zone electrophoresis with inductively coupled plasma mass spectrometric detection (SEC-CZE-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 15-20	3.7 44

84	Microwave-accelerated speciation analysis for butyltin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry. <i>Analytica Chimica Acta</i> , 1996 , 332, 225-232	6.6	44
83	Study of the uptake and bioaccumulation of palladium nanoparticles by <i>Sinapis alba</i> using single particle ICP-MS. <i>Science of the Total Environment</i> , 2018 , 615, 1078-1085	10.2	43
82	Identification of selenosugars and other low-molecular weight selenium metabolites in high-selenium cereal crops. <i>Metallomics</i> , 2012 , 4, 968-78	4.5	42
81	Investigation of metal binding by recombinant and native metallothioneins by capillary zone electrophoresis (CZE) coupled with inductively coupled plasma mass spectrometry (ICP-MS) via a self-aspirating total consumption micronebulizer. <i>Journal of Analytical Atomic Spectrometry</i> , 2001 , 16, 567-574	3.7	40
80	Study of the Se-containing metabolomes in Se-rich yeast by size-exclusion-cation-exchange HPLC with the parallel ICP MS and electrospray orbital ion trap detection. <i>Metallomics</i> , 2010 , 2, 535-48	4.5	39
79	Gas and liquid chromatography with inductively coupled plasma mass spectrometry detection for environmental speciation analysis: advances and limitations. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2000 , 55, 779-793	3.1	37
78	Comparative cytotoxicity of cadmium forms (CdCl ₂ , CdO, CdS micro- and nanoparticles) in renal cells. <i>Toxicology Research</i> , 2014 , 3, 32-41	2.6	36
77	Elemental speciation and coupled techniques: towards faster and reliable analyses. <i>Journal of Analytical Atomic Spectrometry</i> , 1998 , 13, 859-867	3.7	36
76	Bioavailability of cadmium and lead in cocoa: comparison of extraction procedures prior to size-exclusion fast-flow liquid chromatography with inductively coupled plasma mass spectrometric detection (SEC-ICP-MS). <i>Journal of Analytical Atomic Spectrometry</i> , 2002 , 17, 880-886	3.7	36
75	A Novel Strategy for the Detection and Quantification of Nanoplastics by Single Particle Inductively Coupled Plasma Mass Spectrometry (ICP-MS). <i>Analytical Chemistry</i> , 2020 , 92, 11664-11672	7.8	36
74	Uptake, translocation, size characterization and localization of cerium oxide nanoparticles in radish (<i>Raphanus sativus</i> L.). <i>Science of the Total Environment</i> , 2019 , 683, 284-292	10.2	35
73	A sequential extraction procedure for an insight into selenium speciation in garlic. <i>Talanta</i> , 2009 , 77, 1877-82	6.2	35
72	Speciation of mercury by ICP-MS after on-line capillary cryofocussing and ambient temperature multicapillary gas chromatography. <i>Analytical Communications</i> , 1998 , 35, 331-335		35
71	Speciation of metal-carbohydrate complexes in fruit and vegetable samples by size-exclusion HPLC-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 639-644	3.7	35
70	Detection and characterization of biogenic selenium nanoparticles in selenium-rich yeast by single particle ICPMS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 452-460	3.7	33
69	Characterization of selenium incorporation into wheat proteins by two-dimensional gel electrophoresis-laser ablation ICP MS followed by capillary HPLC-ICP MS and electrospray linear trap quadrupole Orbitrap MS. <i>Analytical Chemistry</i> , 2013 , 85, 2037-43	7.8	31
68	Specific determination of selenoaminoacids in whole milk by 2D size-exclusion-ion-pairing reversed phase high-performance liquid chromatography-inductively coupled plasma mass spectrometry (HPLC-ICP MS). <i>Analytica Chimica Acta</i> , 2008 , 624, 195-202	6.6	31
67	Comprehensive speciation of low-molecular weight selenium metabolites in mustard seeds using HPLC-electrospray linear trap/Orbitrap tandem mass spectrometry. <i>Metallomics</i> , 2013 , 5, 1294-304	4.5	30

66	Probing of bismuth antiulcer drug targets in <i>H. pylori</i> by laser ablation-inductively coupled plasma mass spectrometry. <i>Metallomics</i> , 2012 , 4, 277-83	4.5	30
65	Simultaneous derivatization of selenocysteine and selenomethionine in animal blood prior to their specific determination by 2D size-exclusion ion-pairing reversed-phase HPLC-ICP MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 508	3.7	29
64	Species-selective determination of cobalamin analogues by reversed-phase HPLC with ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 1999 , 14, 1323-1327	3.7	29
63	Elucidation of the fate of zinc in model plants using single particle ICP-MS and ESI tandem MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 683-693	3.7	28
62	Privileged incorporation of selenium as selenocysteine in <i>Lactobacillus reuteri</i> proteins demonstrated by selenium-specific imaging and proteomics. <i>Molecular and Cellular Proteomics</i> , 2013 , 12, 2196-204	7.6	28
61	Advances in electrospray mass spectrometry for the selenium speciation: Focus on Se-rich yeast. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 87-94	14.6	27
60	A comparative study of element concentrations and binding in transgenic and non-transgenic soybean seeds. <i>Metallomics</i> , 2010 , 2, 800-5	4.5	27
59	Assessment of selenium bioavailability from high-selenium spirulina subfractions in selenium-deficient rats. <i>Journal of Agricultural and Food Chemistry</i> , 2002 , 50, 3867-73	5.7	26
58	Identification of cadmium-bioinduced ligands in rat liver using parallel HPLC-ICP-MS and HPLC-electrospray MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2000 , 15, 1363-1368	3.7	26
57	Speciation in the environmental field [Trends in Analytical Chemistry. <i>Fresenius Journal of Analytical Chemistry</i> , 1999 , 363, 550-557		26
56	Identification and determination of selenohomolanthionine - The major selenium compound in <i>Torula</i> yeast. <i>Food Chemistry</i> , 2017 , 237, 1196-1201	8.5	25
55	Identification of metallothionein subisoforms in HPLC using accurate mass and online sequencing by electrospray hybrid linear ion trap-orbital ion trap mass spectrometry. <i>Analytical Chemistry</i> , 2010 , 82, 6947-57	7.8	24
54	Speciation analysis for trace levels of selenoproteins in cultured human cells. <i>Journal of Proteomics</i> , 2014 , 108, 316-24	3.9	22
53	Identification of non-peptide species in selenized yeast by MALDI mass spectrometry using post-source decay and orthogonal Q-TOF detection. <i>Analyst, The</i> , 2004 , 129, 846-9	5	22
52	Determination of phytochelatins by capillary zone electrophoresis with electrospray tandem mass spectrometry detection (CZE-ES MS/MS). <i>Analyst, The</i> , 2001 , 126, 624-32	5	21
51	Ultra-High Resolution Elemental/Isotopic Mass Spectrometry ($m/\bar{m} > 1,000,000$): Coupling of the Liquid Sampling-Atmospheric Pressure Glow Discharge with an Orbitrap Mass Spectrometer for Applications in Biological Chemistry and Environmental Analysis. <i>Journal of the American Society for Mass Spectrometry</i> , 2019 , 30, 1163-1168	3.5	19
50	Trace element speciation in food: State of the art of analytical techniques and methods. <i>Pure and Applied Chemistry</i> , 2012 , 84, 169-179	2.1	19
49	Bioaccessibility of Se from Se-enriched wheat and chicken meat. <i>Pure and Applied Chemistry</i> , 2010 , 82, 461-471	2.1	18

48	Coupling of an atmospheric pressure microplasma ionization source with an Orbitrap Fusion Lumos Tribrid 1M mass analyzer for ultra-high resolution isotopic analysis of uranium. <i>Journal of Analytical Atomic Spectrometry</i> , 2019 , 34, 1387-1395	3.7	17
47	Occurrence of Cerium-, Titanium-, and Silver-Bearing Nanoparticles in the Bes and Ebro Rivers. <i>Environmental Science & Technology</i> , 2020 , 54, 3969-3978	10.3	17
46	Detection of selenoproteins in human cell extracts by laser ablation-ICP MS after separation by polyacrylamide gel electrophoresis and blotting. <i>Journal of Analytical Atomic Spectrometry</i> , 2012 , 27, 25-32	3.7	17
45	Characterization of TiO ₂ NPs in Radish (<i>Raphanus sativus</i> L.) by Single-Particle ICP-QQQ-MS. <i>Frontiers in Environmental Science</i> , 2020 , 8,	4.8	17
44	Speciation of Selenium in Selenium-Enriched Sunflower Oil by High-Performance Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry/Electrospray-Orbitrap Tandem Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 4975-81	5.7	16
43	Characterization of binding and bioaccessibility of Cr in Cr-enriched yeast by sequential extraction followed by two-dimensional liquid chromatography with mass spectrometric detection. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1355-64	4.4	16
42	Does selenium fortification of kale and kohlrabi sprouts change significantly their biochemical and cytotoxic properties?. <i>Journal of Trace Elements in Medicine and Biology</i> , 2020 , 59, 126466	4.1	15
41	Large-scale speciation of selenium in rice proteins using ICP-MS assisted electrospray MS/MS proteomics. <i>Metallomics</i> , 2014 , 6, 646-53	4.5	15
40	Towards the Removal of Antibiotics Detected in Wastewaters in the POCTEFA Territory: Occurrence and TiO ₂ Photocatalytic Pilot-Scale Plant Performance. <i>Water (Switzerland)</i> , 2020 , 12, 1453	3	13
39	Processive Recoding and Metazoan Evolution of Selenoprotein P: Up to 132 UGAs in Molluscs. <i>Journal of Molecular Biology</i> , 2019 , 431, 4381-4407	6.5	12
38	Long-Term Evaluation of Gadolinium Retention in Rat Brain After Single Injection of a Clinically Relevant Dose of Gadolinium-Based Contrast Agents. <i>Investigative Radiology</i> , 2020 , 55, 138-143	10.1	12
37	New approach to the determination phosphorothioate oligonucleotides by ultra high performance liquid chromatography coupled with inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2015 , 855, 13-20	6.6	12
36	Screening for polybrominated diphenyl ethers in biological samples by reversed-phase fast HPLC-ICP MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2010 , 25, 889	3.7	11
35	Investigation of the aluminium binding in Al(III)-treated neuroblastoma cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2004 , 19, 41-45	3.7	11
34	Direct screening of food packaging materials for post-polymerization residues, degradation products and additives by liquid extraction surface analysis nanoelectrospray mass spectrometry (LESA-nESI-MS). <i>Analytica Chimica Acta</i> , 2019 , 1058, 117-126	6.6	10
33	Immunomodulating polysaccharide fractions of <i>Menyanthes trifoliata</i> L. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2004 , 59, 485-93	1.7	10
32	To-Do and Not-To-Do in Model Studies of the Uptake, Fate and Metabolism of Metal-Containing Nanoparticles in Plants. <i>Nanomaterials</i> , 2020 , 10,	5.4	10
31	Lanthanide polymer labels for multiplexed determination of biomarkers in human serum samples by means of size exclusion chromatography-inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2018 , 1018, 7-15	6.6	9

30	Sensitive simultaneous determination of 19 fluorobenzoic acids in saline waters by solid-phase extraction and liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2015 , 1417, 30-40	4.5	8
29	Identification and determination of selenocysteine, selenosugar, and other selenometabolites in turkey liver. <i>Metallomics</i> , 2020 , 12, 758-766	4.5	8
28	New Frontiers of Metallomics: Elemental and Species-Specific Analysis and Imaging of Single Cells. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1055, 245-270	3.6	8
27	A chemical speciation insight into the palladium(ii) uptake and metabolism by <i>Sinapis alba</i> . Exposure to Pd induces the synthesis of a Pd-histidine complex. <i>Metallomics</i> , 2019 , 11, 1498-1505	4.5	8
26	Metabolic Response of the Yeast During Enrichment in Selenium. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	8
25	Speciation of technologically critical elements in the environment using chromatography with element and molecule specific detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 42-53	14.6	8
24	Investigation of the response of wood-rotting fungi to copper stress by size-exclusion chromatography and capillary zone electrophoresis with ICP MS detection. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 372, 453-6	4.4	7
23	Speciation of essential nutrient trace elements in coconut water. <i>Food Chemistry</i> , 2021 , 339, 127680	8.5	7
22	Advances in mass spectrometry for iron speciation in plants. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 104, 77-86	14.6	7
21	ICP-MS-assisted identification of selenium-containing proteins in 2D gels using a new capillary HPLC/ICP MS interface and Orbitrap tandem mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2013 , 28, 288-292	3.7	6
20	Nickel Nanoparticles Induce the Synthesis of a Tumor-Related Polypeptide in Human Epidermal Keratinocytes. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
19	<i>Paspalum urvillei</i> and <i>Setaria parviflora</i> , two grasses naturally adapted to extreme iron-rich environments. <i>Plant Physiology and Biochemistry</i> , 2020 , 151, 144-156	5.4	5
18	Nanoplastic Labelling with Metal Probes: Analytical Strategies for Their Sensitive Detection and Quantification by ICP Mass Spectrometry. <i>Molecules</i> , 2021 , 26,	4.8	5
17	An LC-MS/MS Method for a Comprehensive Determination of Metabolites of BTEX Anaerobic Degradation in Bacterial Cultures and Groundwater. <i>Water (Switzerland)</i> , 2020 , 12, 1869	3	5
16	Heavy metal contents in soils and native flora inventory at mining environmental liabilities in the Peruvian Andes. <i>Journal of South American Earth Sciences</i> , 2021 , 106, 103107	2	5
15	Selenized Plant Oil Is an Efficient Source of Selenium for Selenoprotein Biosynthesis in Human Cell Lines. <i>Nutrients</i> , 2019 , 11,	6.7	4
14	Analytical approaches for the characterization of nickel proteome. <i>Metallomics</i> , 2017 , 9, 1014-1027	4.5	4
13	Accumulation of As, Ag, Cd, Cu, Pb, and Zn by Native Plants Growing in Soils Contaminated by Mining Environmental Liabilities in the Peruvian Andes. <i>Plants</i> , 2021 , 10,	4.5	4

12	In vitro digestion of selenium from selenium-enriched chicken. <i>Pure and Applied Chemistry</i> , 2012 , 84, 249-258	2.1	3
11	Mass spectrometry-based analytical developments to link iron speciation to iron bioavailability in maize. <i>Food Chemistry</i> , 2019 , 294, 414-422	8.5	2
10	Rapid ion-exchange matrix removal for a decrease of detection limits in the analysis of salt-rich reservoir waters for fluorobenzoic acids by liquid chromatography coupled with tandem mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 871-879	4.4	2
9	Potential of Fourier Transform Mass Spectrometry (Orbitrap and Ion Cyclotron Resonance) for Speciation of the Selenium Metabolome in Selenium-Rich Yeast. <i>Frontiers in Chemistry</i> , 2020 , 8, 612387	5	2
8	Characterization and Quantification of Selenoprotein P: Challenges to Mass Spectrometry. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
7	Methylselenol Produced In Vivo from Methylseleninic Acid or Dimethyl Diselenide Induces Toxic Protein Aggregation in. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2
6	Speciation of metals in indigenous plants growing in post-mining areas: Dihydroxynicotianamine identified as the most abundant Cu and Zn ligand in <i>Hypericum laricifolium</i> . <i>Science of the Total Environment</i> , 2021 , 809, 151090	10.2	1
5	Speciation Analysis of Gadolinium in the Water-Insoluble Rat Brain Fraction After Administration of Gadolinium-Based Contrast Agents. <i>Investigative Radiology</i> , 2021 , 56, 535-544	10.1	1
4	Resolving Severe Elemental Isobaric Interferences with a Combined Atomic and Molecular Ionization Source-Orbitrap Mass Spectrometry Approach: The Sr and Rb Geochronology Pair. <i>Analytical Chemistry</i> , 2021 , 93, 11506-11514	7.8	1
3	Gas chromatography with inductively coupled plasma mass spectrometric detection (GC-ICP MS). <i>Advances in Chromatography</i> , 2003 , 42, 107-37		1
2	Long-Term Study of Antibiotic Presence in Ebro River Basin (Spain): Identification of the Emission Sources. <i>Water (Switzerland)</i> , 2022 , 14, 1033	3	1
1	Varied effect of fortification of kale sprouts with novel organic selenium compounds on the synthesis of sulphur and phenolic compounds in relation to cytotoxic, antioxidant and anti-inflammatory activity. <i>Microchemical Journal</i> , 2022 , 179, 107509	4.8	1