Joanna Szpunar

List of Publications by Year
in descending order

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141 papers	7,328 citations	29994 54 h-index	62479 80 g-index
142 all docs	142 docs citations	142 times ranked	4400 citing authors

#	Article	IF	Citations
1	Advances in analytical methodology for bioinorganic speciation analysis: metallomics, metalloproteomics and heteroatom-tagged proteomics and metabolomics. Analyst, The, 2005, 130, 442.	1.7	371
2	Metallomics: the concept and methodology. Chemical Society Reviews, 2009, 38, 1119.	18.7	309
3	Bio-inorganic speciation analysis by hyphenated techniques. Analyst, The, 2000, 125, 963-988.	1.7	271
4	Metallomics: a new frontier in analytical chemistry. Analytical and Bioanalytical Chemistry, 2004, 378, 54-56.	1.9	198
5	Mass spectrometry in bioinorganic analytical chemistry. Mass Spectrometry Reviews, 2006, 25, 255-289.	2.8	185
6	Sample preparation and HPLC separation approaches to speciation analysis of selenium in yeast by ICP-MS. Journal of Analytical Atomic Spectrometry, 1999, 14, 645-650.	1.6	155
7	Hyphenated Techniques for Elemental Speciation in Biological Systems. Applied Spectroscopy, 2003, 57, 102A-112A.	1.2	144
8	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. Analytical Chemistry, 2003, 75, 3765-3774.	3.2	139
9	Rapid speciation of butyltin compounds in sediments and biomaterials by capillary gas chromatography-microwave-induced plasma atomic emission spectrometry after microwave-assisted leaching/digestion. Journal of Analytical Atomic Spectrometry, 1996, 11, 193-199.	1.6	119
10	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. Analytica Chimica Acta, 2000, 421, 147-153.	2.6	115
11	An approach to the identification of selenium species in yeast extracts using pneumatically-assisted electrospray tandem mass spectrometry. Analytical Communications, 1999, 36, 77-80.	2.2	108
12	Determination of selenocysteine and selenomethionine in edible animal tissues by 2D size-exclusion reversed-phase HPLC-ICP MS following carbamidomethylation and proteolytic extraction. Analytical and Bioanalytical Chemistry, 2008, 390, 1789-1798.	1.9	108
13	Gas chromatography with inductively coupled plasma mass spectrometric detection in speciation analysis. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2002, 57, 805-828.	1.5	104
14	The speciation of arsenic in biological tissues and the certification of reference materials for quality control. TrAC - Trends in Analytical Chemistry, 2003, 22, 191-209.	5.8	102
15	Investigation of metallodrugâ€“protein interactions by size-exclusion chromatography coupled with inductively coupled plasma mass spectrometry (ICP-MS). Analytica Chimica Acta, 1999, 387, 135-144.	2.6	99
16	Discrimination of geographical origin of rice based on multi-element fingerprinting by high resolution inductively coupled plasma mass spectrometry. Food Chemistry, 2013, 141, 3504-3509.	4.2	98
17	Determination of rare earth elements in wine by inductively coupled plasma mass spectrometry using a microconcentric nebulizer. Journal of Analytical Atomic Spectrometry, 1996, 11, 713-721.	1.6	97
18	Multidimensional approaches in biochemical speciation analysis. Analytical and Bioanalytical Chemistry, 2002, 373, 404-411.	1.9	92

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19	Speciation analysis for iodine in milk by size-exclusion chromatography with inductively coupled plasma mass spectrometric detection (SEC-ICP MS). Journal of Analytical Atomic Spectrometry, 1999, 14, 1697-1702.	1.6	89
20	State of the art report of selenium speciation in biological samples. Journal of Analytical Atomic Spectrometry, 2006, 21, 639-654.	1.6	89
21	Ultratrace determination of uranium and plutonium by nano-volume flow injection double-focusing sector field inductively coupled plasma mass spectrometry (nFIâ€“ICP-SFMS). Journal of Analytical Atomic Spectrometry, 2005, 20, 17-21.	1.6	88
22	Characterization of Arsenic Species in Kidney of the ClamTridacnaderasaby Multidimensional Liquid Chromatography-ICPMS and Electrospray Time-of-Flight Tandem Mass Spectrometry. Analytical Chemistry, 2002, 74, 2370-2378.	3.2	87
23	Certification of a new selenized yeast reference material (SELM-1) for methionine, selenomethinone and total selenium content and its use in an intercomparison exercise for quantifying these analytes. Analytical and Bioanalytical Chemistry, 2006, 385, 168-180.	1.9	85
24	Comprehensive speciation of selenium in selenium-rich yeast. TrAC - Trends in Analytical Chemistry, 2012, 41, 122-132.	5.8	85
25	Speciation of seleno compounds in yeast aqueous extracts by three-dimensional liquid chromatography with inductively coupled plasma mass spectrometric and electrospray mass spectrometric detection. Analyst, The, 2002, 127, 223-229.	1.7	84
26	A Novel Strategy for the Detection and Quantification of Nanoplastics by Single Particle Inductively Coupled Plasma Mass Spectrometry (ICP-MS). Analytical Chemistry, 2020, 92, 11664-11672.	3.2	84
27	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. Journal of Analytical Atomic Spectrometry, 2005, 20, 1101.	1.6	79
28	Methodological advances for selenium speciation analysis in yeast. Analytica Chimica Acta, 2003, 500, 171-183.	2.6	78
29	Speciation of arsenic in edible algae by bi-dimensional size-exclusion anion exchange HPLC with dual ICP-MS and electrospray MS/MS detection. Journal of Analytical Atomic Spectrometry, 2000, 15, 79-87.	1.6	76
30	Analysis for selenium speciation in selenized yeast extracts by two-dimensional liquid chromatography with ICP-MS and electrospray MS-MS detection. Journal of Analytical Atomic Spectrometry, 2001, 16, 68-73.	1.6	76
31	Development of a Nebulizer for a Sheathless Interfacing of NanoHPLC and ICPMS. Analytical Chemistry, 2006, 78, 965-971.	3.2	76
32	Single particle ICP-MS characterization of platinum nanoparticles uptake and bioaccumulation by Lepidium sativum and Sinapis alba plants. Journal of Analytical Atomic Spectrometry, 2016, 31, 2321-2329.	1.6	75
33	Biochemical speciation analysis by hyphenated techniques. Analytica Chimica Acta, 1999, 400, 321-332.	2.6	72
34	Identification of selenocompounds in yeast by electrospray quadrupole-time of flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2002, 17, 507-514.	1.6	72
35	Determination of selenomethionine, selenocysteine, and inorganic selenium in eggs by HPLCâ€“inductively coupled plasma mass spectrometry. Analytical and Bioanalytical Chemistry, 2010, 397, 731-741.	1.9	72
36	Speciation of cadmium in plant tissues by size-exclusion chromatography with ICP-MS detection. Journal of Analytical Atomic Spectrometry, 1999, 14, 1557-1566.	1.6	70

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37	Investigation of arsenic speciation in oyster test reference material by multidimensional HPLC-ICP-MS and electrospray tandem mass spectrometry (ES-MS-MS). Analyst, The, 2001, 126, 1055-1062.	1.7	70
38	A systematic approach to selenium speciation in selenized yeast. Journal of Analytical Atomic Spectrometry, 2004, 19, 114-120.	1.6	69
39	Precolumn Isotope Dilution Analysis in nanoHPLCâ^'ICPMS for Absolute Quantification of Sulfur-Containing Peptides. Analytical Chemistry, 2007, 79, 2859-2868.	3.2	69
40	Speciation Analysis for Organotin Compounds in Biomaterials after Integrated Dissolution, Extraction, and Derivatization in a Focused Microwave Field. Analytical Chemistry, 1996, 68, 4135-4140.	3.2	67
41	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. Journal of Analytical Atomic Spectrometry, 2002, 17, 908-912.	1.6	67
42	Multidimensional liquid chromatography with parallel ICP MS and electrospray MS/MS detection as a tool for the characterization of arsenic species in algae. Analytical and Bioanalytical Chemistry, 2002, 372, 457-466.	1.9	67
43	Trace element speciation analysis of biomaterials by high-performance liquid chromatography with inductively coupled plasma mass spectrometric detection. TrAC - Trends in Analytical Chemistry, 2000, 19, 127-137.	5.8	64
44	Speciation analysis for biomolecular complexes of lead in wine by size-exclusion high-performance liquid chromatography-inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 1998, 13, 749-754.	1.6	63
45	Complementarity of MALDI and LA ICP mass spectrometry for platinum anticancer imaging in human tumor. Metallomics, 2014, 6, 1382-1386.	1.0	63
46	Identification of dimethylarsinoyl-riboside derivatives in seaweed by pneumatically assisted electrospray tandem mass spectrometry. Analytica Chimica Acta, 2000, 410, 71-84.	2.6	62
47	Complementarity of multidimensional HPLC-ICP-MS and electrospray MSâ€“MS for speciation analysis of arsenic in algae. Analytica Chimica Acta, 2001, 440, 3-16.	2.6	62
48	An insight into silver nanoparticles bioavailability in rats. Metallomics, 2014, 6, 2242-2249.	1.0	62
49	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. Analyst, The, 2003, 128, 220-224.	1.7	61
50	Speciation analysis for organotin compounds in sediments by capillary gas chromatography with flame photometric detection after microwave-assisted acid leaching. Analyst, The, 1995, 120, 2665-2673.	1.7	60
51	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). Journal of Analytical Atomic Spectrometry, 2002, 17, 15-20.	1.6	58
52	Study of the uptake and bioaccumulation of palladium nanoparticles by Sinapis alba using single particle ICP-MS. Science of the Total Environment, 2018, 615, 1078-1085.	3.9	58
53	Investigation of metal complexes with metallothionein in rat tissues by hyphenated techniques. Journal of Inorganic Biochemistry, 2002, 88, 197-206.	1.5	57
54	Uptake, translocation, size characterization and localization of cerium oxide nanoparticles in radish (Raphanus sativus L.). Science of the Total Environment, 2019, 683, 284-292.	3.9	56

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55	Microwave-accelerated speciation analysis for butyltin compounds in sediments and biomaterials by large volume injection capillary gas chromatography quartz furnace atomic absorption spectrometry. Analytica Chimica Acta, 1996, 332, 225-232.	2.6	54
56	Detection and characterization of biogenic selenium nanoparticles in selenium-rich yeast by single particle ICPMS. Journal of Analytical Atomic Spectrometry, 2018, 33, 452-460.	1.6	52
57	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. Journal of Analytical Atomic Spectrometry, 2001, 16, 567-574.	1.6	51
58	Investigation of the recovery of selenomethionine from selenized yeast by two-dimensional LCâ€“ICP MS. Analytical and Bioanalytical Chemistry, 2005, 381, 844-849.	1.9	51
59	Identification of selenosugars and other low-molecular weight selenium metabolites in high-selenium cereal crops. Metallomics, 2012, 4, 968.	1.0	51
60	Selenopeptide mapping in a seleniumâ€“yeast protein digest by parallel nanoHPLC-ICP-MS and nanoHPLC-electrospray-MS/MS after on-line preconcentration. Journal of Analytical Atomic Spectrometry, 2006, 21, 26-32.	1.6	50
61	Elemental speciation and coupled techniquesâ€”towards faster and reliable analyses. Journal of Analytical Atomic Spectrometry, 1998, 13, 859-867.	1.6	47
62	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). Journal of Analytical Atomic Spectrometry, 2002, 17, 880-886.	1.6	46
63	Speciation of metal-carbohydrate complexes in fruit and vegetable samples by size-exclusion HPLC-ICP-MS. Journal of Analytical Atomic Spectrometry, 1999, 14, 639-644.	1.6	45
64	Gas and liquid chromatography with inductively coupled plasma mass spectrometry detection for environmental speciation analysis â€” advances and limitations. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2000, 55, 779-793.	1.5	43
65	Study of the Se-containing metabolomes in Se-rich yeast by size-exclusionâ€”cation-exchange HPLC with the parallel ICP MS and electrospray orbital ion trap detection. Metallomics, 2010, 2, 535.	1.0	42
66	Speciation of mercury by ICP-MS after on-line capillary cryofocussing and ambient temperature multicapillary gas chromatography. Analytical Communications, 1998, 35, 331-335.	2.2	41
67	Comparative cytotoxicity of cadmium forms (CdCl₂, CdO, CdS micro- and nanoparticles) in renal cells. Toxicology Research, 2014, 3, 32-41.	0.9	41
68	Occurrence of Cerium-, Titanium-, and Silver-Bearing Nanoparticles in the BesÃ²s and Ebro Rivers. Environmental Science & Technology, 2020, 54, 3969-3978.	4.6	39
69	Privileged Incorporation of Selenium as Selenocysteine in Lactobacillus reuteri Proteins Demonstrated by Selenium-specific Imaging and Proteomics. Molecular and Cellular Proteomics, 2013, 12, 2196-2204.	2.5	38
70	Identification of cadmium-bioinduced ligands in rat liver using parallel HPLC-ICP-MS and HPLC-electrospray MS. Journal of Analytical Atomic Spectrometry, 2000, 15, 1363-1368.	1.6	37
71	Advances in electrospray mass spectrometry for the selenium speciation: Focus on Se-rich yeast. TrAC - Trends in Analytical Chemistry, 2018, 104, 87-94.	5.8	36
72	Elucidation of the fate of zinc in model plants using single particle ICP-MS and ESI tandem MS. Journal of Analytical Atomic Spectrometry, 2019, 34, 683-693.	1.6	36

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73	Species-selective determination of cobalamin analogues by reversed-phase HPLC with ICP-MS detection. Journal of Analytical Atomic Spectrometry, 1999, 14, 1323-1327.	1.6	35
74	A sequential extraction procedure for an insight into selenium speciation in garlic. Talanta, 2009, 77, 1877-1882.	2.9	35
75	Characterization of Selenium Incorporation into Wheat Proteins by Two-Dimensional Gel Electrophoresisâ€“Laser Ablation ICP MS followed by capillary HPLCâ€“ICP MS and Electrospray Linear Trap Quadrupole Orbitrap MS. Analytical Chemistry, 2013, 85, 2037-2043.	3.2	35
76	Specific determination of selenoaminoacids in whole milk by 2D size-exclusion-ion-paring reversed phase high-performance liquid chromatographyâ€“inductively coupled plasma mass spectrometry (HPLCâ€“ICP MS). Analytica Chimica Acta, 2008, 624, 195-202.	2.6	34
77	Assessment of Selenium Bioavailability from High-Selenium Spirulina Subfractions in Selenium-Deficient Rats. Journal of Agricultural and Food Chemistry, 2002, 50, 3867-3873.	2.4	33
78	Probing of bismuth antiulcer drug targets in H. pylori by laser ablation-inductively coupled plasma mass spectrometry. Metallomics, 2012, 4, 277.	1.0	33
79	Comprehensive speciation of low-molecular weight selenium metabolites in mustard seeds using HPLC â€“ electrospray linear trap/orbitrap tandem mass spectrometry. Metallomics, 2013, 5, 1294.	1.0	33
80	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. Journal of Analytical Atomic Spectrometry, 2008, 23, 508.	1.6	31
81	A comparative study of element concentrations and binding in transgenic and non-transgenic soybean seeds. Metallomics, 2010, 2, 800.	1.0	31
82	Speciation in the environmental field - trends in Analytical Chemistry. Fresenius' Journal of Analytical Chemistry, 1999, 363, 550-557.	1.5	30
83	Identification and determination of selenohomolanthionine â€“ The major selenium compound in Torula yeast. Food Chemistry, 2017, 237, 1196-1201.	4.2	30
84	Characterization of TiO2 NPs in Radish (Raphanus sativus L.) by Single-Particle ICP-QQQ-MS. Frontiers in Environmental Science, 2020, 8, .	1.5	30
85	Does selenium fortification of kale and kohlrabi sprouts change significantly their biochemical and cytotoxic properties?. Journal of Trace Elements in Medicine and Biology, 2020, 59, 126466.	1.5	28
86	Speciation analysis for trace levels of selenoproteins in cultured human cells. Journal of Proteomics, 2014, 108, 316-324.	1.2	26
87	Metabolic Response of the Yeast Candida utilis During Enrichment in Selenium. International Journal of Molecular Sciences, 2020, 21, 5287.	1.8	26
88	Identification of Metallothionein Subisoforms in HPLC Using Accurate Mass and Online Sequencing by Electrospray Hybrid Linear Ion Trap-Orbital Ion Trap Mass Spectrometry. Analytical Chemistry, 2010, 82, 6947-6957.	3.2	25
89	Long-Term Evaluation of Gadolinium Retention in Rat Brain After Single Injection of a Clinically Relevant Dose of Gadolinium-Based Contrast Agents. Investigative Radiology, 2020, 55, 138-143.	3.5	25
90	Identification of non-peptide species in selenized yeast by MALDI mass spectrometry using post-source decay and orthogonal Q-TOF detection. Analyst, The, 2004, 129, 846-849.	1.7	24

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91	Determination of phytochelatins by capillary zone electrophoresis with electrospray tandem mass spectrometry detection (CZE-ES MS/MS). Analyst, The, 2001, 126, 624-632.	1.7	23
92	Ultra-High Resolution Elemental/Isotopic Mass Spectrometry (m/Î”mâ€‰>â€‰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. Journal of the American Society for Mass Spectrometry, 2019, 30, 1163-1168.	1.2	23
93	Towards the Removal of Antibiotics Detected in Wastewaters in the POCTEFA Territory: Occurrence and TiO2 Photocatalytic Pilot-Scale Plant Performance. Water (Switzerland), 2020, 12, 1453.	1.2	23
94	Paspalum urvillei and Setaria parviflora, two grasses naturally adapted to extreme iron-rich environments. Plant Physiology and Biochemistry, 2020, 151, 144-156.	2.8	23
95	Bioaccessibility of Se from Se-enriched wheat and chicken meat. Pure and Applied Chemistry, 2010, 82, 461-471.	0.9	22
96	Trace element speciation in food: State of the art of analytical techniques and methods. Pure and Applied Chemistry, 2012, 84, 169-179.	0.9	21
97	Speciation of essential nutrient trace elements in coconut water. Food Chemistry, 2021, 339, 127680.	4.2	20
98	Speciation of Selenium in Selenium-Enriched Sunflower Oil by High-Performance Liquid Chromatographyâ€“Inductively Coupled Plasma Mass Spectrometry/Electrosprayâ€“Orbitrap Tandem Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2016, 64, 4975-4981.	2.4	18
99	Speciation of technologically critical elements in the environment using chromatography with element and molecule specific detection. TrAC - Trends in Analytical Chemistry, 2018, 104, 42-53.	5.8	18
100	Processive Recoding and MetazoanÂEvolution of SelenoproteinÂP: Up to 132 UGAs in Molluscs. Journal of Molecular Biology, 2019, 431, 4381-4407.	2.0	18
101	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. Journal of Analytical Atomic Spectrometry, 2019, 34, 1387-1395.	1.6	18
102	Characterization of binding and bioaccessibility of Cr in Cr-enriched yeast by sequential extraction followed by two-dimensional liquid chromatography with mass spectrometric detection. Analytical and Bioanalytical Chemistry, 2010, 396, 1355-1364.	1.9	17
103	Detection of selenoproteins in human cell extracts by laser ablation-ICP MS after separation by polyacrylamide gel electrophoresis and blotting. Journal of Analytical Atomic Spectrometry, 2012, 27, 25-32.	1.6	17
104	Large-scale speciation of selenium in rice proteins using ICP-MS assisted electrospray MS/MS proteomics. Metallomics, 2014, 6, 646.	1.0	17
105	To-Do and Not-To-Do in Model Studies of the Uptake, Fate and Metabolism of Metal-Containing Nanoparticles in Plants. Nanomaterials, 2020, 10, 1480.	1.9	15
106	Lanthanide polymer labels for multiplexed determination of biomarkers in human serum samples by means of size exclusion chromatography-inductively coupled plasma mass spectrometry. Analytica Chimica Acta, 2018, 1018, 7-15.	2.6	14
107	Identification and determination of selenocysteine, selenosugar, and other selenometabolites in turkey liver. Metallomics, 2020, 12, 758-766.	1.0	14
108	Characterization and Quantification of Selenoprotein P: Challenges to Mass Spectrometry. International Journal of Molecular Sciences, 2021, 22, 6283.	1.8	14

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109	Nanoplastic Labelling with Metal Probes: Analytical Strategies for Their Sensitive Detection and Quantification by ICP Mass Spectrometry. Molecules, 2021, 26, 7093.	1.7	14
110	New approach to the determination phosphorothioate oligonucleotides by ultra high performance liquid chromatography coupled with inductively coupled plasma mass spectrometry. Analytica Chimica Acta, 2015, 855, 13-20.	2.6	13
111	Investigation of the aluminium binding in Al(iii)-treated neuroblastoma cells. Journal of Analytical Atomic Spectrometry, 2004, 19, 41-45.	1.6	12
112	Immunomodulating Polysaccharide Fractions of Menyanthes trifoliata L.. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2004, 59, 485-493.	0.6	12
113	Screening for polybrominated diphenyl ethers in biological samples by reversed-phase fast HPLC-ICP MS. Journal of Analytical Atomic Spectrometry, 2010, 25, 889.	1.6	12
114	New Frontiers of Metallomics: Elemental and Species-Specific Analysis and Imaging of Single Cells. Advances in Experimental Medicine and Biology, 2018, 1055, 245-270.	0.8	12
115	An LC-MS/MS Method for a Comprehensive Determination of Metabolites of BTEX Anaerobic Degradation in Bacterial Cultures and Groundwater. Water (Switzerland), 2020, 12, 1869.	1.2	12
116	Advances in mass spectrometry for iron speciation in plants. TrAC - Trends in Analytical Chemistry, 2018, 104, 77-86.	5.8	11
117	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). Analytica Chimica Acta, 2019, 1058, 117-126.	2.6	11
118	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. Microchemical Journal, 2022, 179, 107509.	2.3	11
119	Investigation of the response of wood-rotting fungi to copper stress by size-exclusion chromatography and capillary zone electrophoresis with ICP MS detection. Analytical and Bioanalytical Chemistry, 2002, 372, 453-456.	1.9	10
120	Sensitive simultaneous determination of 19 fluorobenzoic acids in saline waters by solid-phase extraction and liquid chromatographyâ€“tandem mass spectrometry. Journal of Chromatography A, 2015, 1417, 30-40.	1.8	10
121	A chemical speciation insight into the palladium(ii) uptake and metabolism by Sinapis alba. Exposure to Pd induces the synthesis of a Pdâ€“histidine complex. Metallomics, 2019, 11, 1498-1505.	1.0	10
122	Heavy metal contents in soils and native flora inventory at mining environmental liabilities in the Peruvian Andes. Journal of South American Earth Sciences, 2021, 106, 103107.	0.6	10
123	Accumulation of As, Ag, Cd, Cu, Pb, and Zn by Native Plants Growing in Soils Contaminated by Mining Environmental Liabilities in the Peruvian Andes. Plants, 2021, 10, 241.	1.6	10
124	Speciation Analysis of Gadolinium in the Water-Insoluble Rat Brain Fraction After Administration of Gadolinium-Based Contrast Agents. Investigative Radiology, 2021, 56, 535-544.	3.5	9
125	Long-Term Study of Antibiotic Presence in Ebro River Basin (Spain): Identification of the Emission Sources. Water (Switzerland), 2022, 14, 1033.	1.2	9
126	Speciation of metals in indigenous plants growing in post-mining areas: Dihydroxynicotianamine identified as the most abundant Cu and Zn ligand in Hypericum laricifolium. Science of the Total Environment, 2022, 809, 151090.	3.9	8

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127	Analytical approaches for the characterization of nickel proteome. Metallomics, 2017, 9, 1014-1027.	1.0	7
128	Selenized Plant Oil Is an Efficient Source of Selenium for Selenoprotein Biosynthesis in Human Cell Lines. Nutrients, 2019, 11, 1524.	1.7	7
129	Nickel Nanoparticles Induce the Synthesis of a Tumor-Related Polypeptide in Human Epidermal Keratinocytes. Nanomaterials, 2020, 10, 992.	1.9	7
130	Resolving Severe Elemental Isobaric Interferences with a Combined Atomic and Molecular Ionization Sourceâ€“Orbitrap Mass Spectrometry Approach: The ⁸⁷Sr and ⁸⁷Rb Geochronology Pair. Analytical Chemistry, 2021, 93, 11506-11514.	3.2	7
131	ICP-MS-assisted identification of selenium-containing proteins in 2D gels using a new capillary HPLCâ€“ICP MS interface and Orbitrap tandem mass spectrometry. Journal of Analytical Atomic Spectrometry, 2013, 28, 288-292.	1.6	6
132	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. Analytical and Bioanalytical Chemistry, 2017, 409, 871-879.	1.9	6
133	In vitro digestion of selenium from selenium-enriched chicken. Pure and Applied Chemistry, 2012, 84, 249-258.	0.9	5
134	Potential of Fourier Transform Mass Spectrometry (Orbitrap and Ion Cyclotron Resonance) for Speciation of the Selenium Metabolome in Selenium-Rich Yeast. Frontiers in Chemistry, 2020, 8, 612387.	1.8	5
135	Methylselenol Produced In Vivo from Methylseleninic Acid or Dimethyl Diselenide Induces Toxic Protein Aggregation in Saccharomyces cerevisiae. International Journal of Molecular Sciences, 2021, 22, 2241.	1.8	4
136	Investigation of the Occurrence of Cyanotoxins in Lake Karaoun (Lebanon) by Mass Spectrometry, Bioassays and Molecular Methods. Toxins, 2021, 13, 716.	1.5	4
137	Speciation Issue. Journal of Analytical Atomic Spectrometry, 2011, 26, 22-22.	1.6	3
138	Mass spectrometry-based analytical developments to link iron speciation to iron bioavailability in maize. Food Chemistry, 2019, 294, 414-422.	4.2	3
139	Gas chromatography with inductively coupled plasma mass spectrometric detection (GC-ICP MS). Advances in Chromatography, 2003, 42, 107-37.	1.0	2
140	2013 European Winter Conference on Plasma Spectrochemistry. Journal of Analytical Atomic Spectrometry, 2013, 28, 1142.	1.6	0
141	Community Leaders: Ramon M. Barnes. Journal of Analytical Atomic Spectrometry, 2022, 37, 697-700.	1.6	0