Joerg Feldmann

List of Publications by Year
in descending order

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285 papers	17,697 citations	16411 64 h-index	17546 121 g-index
296 all docs	296 docs citations	296 times ranked	11500 citing authors

#	Article	IF	Citations
1	Metal Chelation and Inhibition of Bacterial Growth in Tissue Abscesses. Science, 2008, 319, 962-965.	6.0	751
2	Variation in Arsenic Speciation and Concentration in Paddy Rice Related to Dietary Exposure. Environmental Science & Technology, 2005, 39, 5531-5540.	4.6	706
3	Geographical Variation in Total and Inorganic Arsenic Content of Polished (White) Rice. Environmental Science & Technology, 2009, 43, 1612-1617.	4.6	673
4	Greatly Enhanced Arsenic Shoot Assimilation in Rice Leads to Elevated Grain Levels Compared to Wheat and Barley. Environmental Science & Technology, 2007, 41, 6854-6859.	4.6	653
5	Uptake Kinetics of Arsenic Species in Rice Plants. Plant Physiology, 2002, 128, 1120-1128.	2.3	593
6	Mechanisms of Arsenic Hyperaccumulation in Pteris vittata. Uptake Kinetics, Interactions with Phosphate, and Arsenic Speciation. Plant Physiology, 2002, 130, 1552-1561.	2.3	548
7	Arsenic Accumulation and Metabolism in Rice (Oryza sativaL.). Environmental Science & Technology, 2002, 36, 962-968.	4.6	516
8	Increase in Rice Grain Arsenic for Regions of Bangladesh Irrigating Paddies with Elevated Arsenic in Groundwaters. Environmental Science & Technology, 2006, 40, 4903-4908.	4.6	473
9	The Rice Aquaporin Lsi1 Mediates Uptake of Methylated Arsenic Species Â. Plant Physiology, 2009, 150, 2071-2080.	2.3	350
10	Speciation and Localization of Arsenic in White and Brown Rice Grains. Environmental Science & Technology, 2008, 42, 1051-1057.	4.6	321
11	Uptake, translocation and transformation of arsenate and arsenite in sunflower (Helianthus annuus) Tj ETQq1 1 0.784314 rgBT /Over New Phytologist, 2005, 168, 551-558.	3.5	282
12	Inorganic Arsenic in Rice Bran and Its Products Are an Order of Magnitude Higher than in Bulk Grain. Environmental Science & Technology, 2008, 42, 7542-7546.	4.6	278
13	The Nature of Arsenic-Phytochelatin Complexes in Holcus lanatus and Pteris cretica. Plant Physiology, 2004, 134, 1113-1122.	2.3	275
14	Grain Unloading of Arsenic Species in Rice Â. Plant Physiology, 2009, 152, 309-319.	2.3	268
15	Uptake and translocation of inorganic and methylated arsenic species by plants. Environmental Chemistry, 2007, 4, 197.	0.7	257
16	Market Basket Survey Shows Elevated Levels of As in South Central U.S. Processed Rice Compared to California:Â Consequences for Human Dietary Exposure. Environmental Science & Technology, 2007, 41, 2178-2183.	4.6	253
17	Complexation of Arsenite with Phytochelatins Reduces Arsenite Efflux and Translocation from Roots to Shoots in Arabidopsis. Plant Physiology, 2010, 152, 2211-2221.	2.3	206
18	Inorganic arsenic levels in baby rice are of concern. Environmental Pollution, 2008, 152, 746-749.	3.7	168

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19	Critical review or scientific opinion paper: Arsenosugarsâ€”a class of benign arsenic species or justification for developing partly speciated arsenic fractionation in foodstuffs?. Analytical and Bioanalytical Chemistry, 2011, 399, 1735-1741.	1.9	159
20	Sulfur-Containing Arsenical Mistaken for Dimethylarsinous Acid [DMA(III)] and Identified as a Natural Metabolite in Urine:â€‰ Major Implications for Studies on Arsenic Metabolism and Toxicity. Chemical Research in Toxicology, 2004, 17, 1086-1091.	1.7	154
21	Identification of Low Inorganic and Total Grain Arsenic Rice Cultivars from Bangladesh. Environmental Science & Technology, 2009, 43, 6070-6075.	4.6	151
22	Identification and quantification of phytochelatins in roots of rice to long-term exposure: evidence of individual role on arsenic accumulation and translocation. Journal of Experimental Botany, 2014, 65, 1467-1479.	2.4	149
23	Environmental and Genetic Control of Arsenic Accumulation and Speciation in Rice Grain: Comparing a Range of Common Cultivars Grown in Contaminated Sites Across Bangladesh, China, and India. Environmental Science & Technology, 2009, 43, 8381-8386.	4.6	146
24	Cooking rice in a high water to rice ratio reduces inorganic arsenic content. Journal of Environmental Monitoring, 2009, 11, 41-44.	2.1	143
25	Survey of arsenic and its speciation in rice products such as breakfast cereals, rice crackers and Japanese rice condiments. Environment International, 2009, 35, 473-475.	4.8	138
26	Field Fluxes and Speciation of Arsines Emanating from Soils. Environmental Science & Technology, 2011, 45, 1798-1804.	4.6	138
27	Two-Dimensional Mapping of Copper and Zinc in Liver Sections by Laser Ablationâ€“Inductively Coupled Plasma Mass Spectrometry. Clinical Chemistry, 2003, 49, 1916-1923.	1.5	135
28	Occurrence of Volatile Metal and Metalloid Species in Landfill and Sewage Gases. International Journal of Environmental Analytical Chemistry, 1995, 60, 339-359.	1.8	134
29	Quantitative and Qualitative Trapping of Arsines Deployed to Assess Loss of Volatile Arsenic from Paddy Soil. Environmental Science & Technology, 2009, 43, 8270-8275.	4.6	122
30	Arsenic in the Meager Creek hot springs environment, British Columbia, Canada. Science of the Total Environment, 1999, 236, 101-117.	3.9	118
31	Laser ablation of soft tissue using a cryogenically cooled ablation cell. Journal of Analytical Atomic Spectrometry, 2002, 17, 813-818.	1.6	118
32	A qualitative and quantitative evaluation of the seaweed diet of North Ronaldsay sheep. Animal Feed Science and Technology, 2003, 105, 21-28.	1.1	117
33	Phylogenomic Analysis of Natural Products Biosynthetic Gene Clusters Allows Discovery of Arseno-Organic Metabolites in Model Streptomycetes. Genome Biology and Evolution, 2016, 8, 1906-1916.	1.1	111
34	Arsenicâ€“glutathione complexesâ€”their stability in solution and during separation by different HPLC modes. Journal of Analytical Atomic Spectrometry, 2004, 19, 183-190.	1.6	110
35	Arsenic Speciation in Phloem and Xylem Exudates of Castor Bean. Plant Physiology, 2010, 154, 1505-1513.	2.3	104
36	Metal(loid)organic compounds in geothermal gases and waters. Organic Geochemistry, 1998, 29, 1765-1778.	0.9	102

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37	An arsenicâ€accumulating, hypertolerant brassica, Isatis capadocica. New Phytologist, 2009, 184, 41-47.	3.5	101
38	Identification and Quantification of Arsenolipids Using Reversed-Phase HPLC Coupled Simultaneously to High-Resolution ICPMS and High-Resolution Electrospray MS without Species-Specific Standards. Analytical Chemistry, 2011, 83, 3589-3595.	3.2	101
39	Investigation into mercury bound to biothiols: structural identification using ESIâ€“ion-trap MS and introduction of a method for their HPLC separation with simultaneous detection by ICP-MS and ESI-MS. Analytical and Bioanalytical Chemistry, 2008, 390, 1753-1764.	1.9	99
40	The molecular form of mercury in biota: identification of novel mercury peptide complexes in plants. Chemical Communications, 2009, , 4257.	2.2	99
41	Can arsenic-phytochelatin complex formation be used as an indicator for toxicity in Helianthus annuus?. Journal of Experimental Botany, 2007, 58, 1333-1338.	2.4	97
42	Determination of volatile metal and metalloid compounds in gases from domestic waste deposits with GC/ICP-MS. Fresenius' Journal of Analytical Chemistry, 1994, 350, 228-234.	1.5	96
43	Speciation without Chromatography Using Selective Hydride Generation: Inorganic Arsenic in Rice and Samples of Marine Origin. Analytical Chemistry, 2014, 86, 993-999.	3.2	95
44	Comprehensive Analysis of Lipophilic Arsenic Species in a Brown Alga (Saccharina latissima). Analytical Chemistry, 2013, 85, 2817-2824.	3.2	93
45	2-Dimethylarsinothioyl Acetic Acid Identified in a Biological Sample: The First Occurrence of a Mammalian Arsinothioyl Metabolite. Angewandte Chemie - International Edition, 2004, 43, 337-340.	7.2	89
46	Critical review perspective: elemental speciation analysis methods in environmental chemistry - moving towards methodological integration. Environmental Chemistry, 2009, 6, 275.	0.7	89
47	Metabolism of Arsenic by Sheep Chronically Exposed to Arsenosugars as a Normal Part of Their Diet. 1. Quantitative Intake, Uptake, and Excretion. Environmental Science & Technology, 2003, 37, 845-851.	4.6	86
48	Arsenic metabolism in seaweed-eating sheep from Northern Scotland. Fresenius' Journal of Analytical Chemistry, 2000, 368, 116-121.	1.5	84
49	Stability of arsenic peptides in plant extracts: off-line versus on-line parallel elemental and molecular mass spectrometric detection for liquid chromatographic separation. Analytical and Bioanalytical Chemistry, 2009, 393, 357-366.	1.9	84
50	The impact of a rice based diet on urinary arsenic. Journal of Environmental Monitoring, 2011, 13, 257-265.	2.1	83
51	In vivo formation of natural HgSe nanoparticles in the liver and brain of pilot whales. Scientific Reports, 2016, 6, 34361.	1.6	82
52	Biotransformation of arsenate to arsenosugars byChlorella vulgaris. Applied Organometallic Chemistry, 2003, 17, 669-674.	1.7	81
53	Can we trust mass spectrometry for determination of arsenic peptides in plants: comparison of LCâ€“ICPâ€“MS and LCâ€“ES-MS/ICPâ€“MS with XANES/EXAFS in analysis of Thunbergia alata. Analytical and Bioanalytical Chemistry, 2008, 390, 1739-1751.	1.9	78
54	Pentavalent Arsenic Can Bind to Biomolecules. Angewandte Chemie - International Edition, 2007, 46, 2594-2597.	7.2	77

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55	Fungal formation of selenium and tellurium nanoparticles. Applied Microbiology and Biotechnology, 2019, 103, 7241-7259.	1.7	77
56	Novel Identification of Arsenolipids Using Chemical Derivatizations in Conjunction with RP-HPLC-ICPMS/ESMS. Analytical Chemistry, 2013, 85, 9321-9327.	3.2	75
57	GCâ€“ICPâ€“MS determination of dimethylselenide in human breath after ingestion of 77Se-enriched selenite: monitoring of in-vivo methylation of selenium. Analytical and Bioanalytical Chemistry, 2005, 383, 509-515.	1.9	74
58	Biotransformation and Accumulation of Arsenic in Soil Amended with Seaweed. Environmental Science & Technology, 2003, 37, 951-957.	4.6	73
59	Determination of antimony species with high-performance liquid chromatography using element specific detection. Fresenius' Journal of Analytical Chemistry, 1997, 359, 484-491.	1.5	72
60	Occurrence of Volatile Transition Metal Compounds in Landfill Gas:Â Synthesis of Molybdenum and Tungsten Carbonyls in the Environment. Environmental Science & Technology, 1997, 31, 2125-2129.	4.6	71
61	Arsenic-speciation in arsenate-resistant and non-resistant populations of the earthworm, Lumbricus rubellus. Journal of Environmental Monitoring, 2002, 4, 603-608.	2.1	70
62	Arsenic speciation in hair extracts. Analytical and Bioanalytical Chemistry, 2005, 381, 332-338.	1.9	68
63	Inorganic arsenic levels in rice milk exceed EU and US drinking water standards. Journal of Environmental Monitoring, 2008, 10, 428.	2.1	68
64	Complementary use of capillary gas chromatographyâ€“mass spectrometry (ion trap) and gas chromatographyâ€“inductively coupled plasma mass spectrometry for the speciation of volatile antimony, tin and bismuth compounds in landfill and fermentation gasesâ€. Analyst, The, 1998, 123, 815-820.	1.7	66
65	New arsenosugar metabolite determined in urine by parallel use of HPLC-ICP-MS and HPLC-ESI-MS. Journal of Analytical Atomic Spectrometry, 2003, 18, 474.	1.6	65
66	Impact of selenium supplementation on fish antiviral responses: a whole transcriptomic analysis in rainbow trout (Oncorhynchus mykiss) fed supranutritional levels of Sel-PlexÂ®. BMC Genomics, 2016, 17, 116.	1.2	65
67	Host-Imposed Copper Poisoning Impacts Fungal Micronutrient Acquisition during Systemic Candida albicans Infections. PLoS ONE, 2016, 11, e0158683.	1.1	64
68	Volatile metal and metalloid species in gases from municipal waste deposits. Applied Organometallic Chemistry, 1994, 8, 65-69.	1.7	63
69	Biovolatilisation: a poorly studied pathway of the arsenic biogeochemical cycle. Environmental Sciences: Processes and Impacts, 2013, 15, 1639.	1.7	62
70	Summary of a Calibration Method for the Deteremination of Volatile Metal(loid) Compounds in Environmental Gas Samples by Using Gas Chromatographyâ€“Inductively Coupled Plasma Mass Spectrometry. Journal of Analytical Atomic Spectrometry, 1997, 12, 1069-1076.	1.6	58
71	Evaluation of gel electrophoresis conditions for the separation of metalâ€tagged proteins with subsequent laser ablation ICPâ€MS detection. Electrophoresis, 2009, 30, 303-314.	1.3	58
72	In utero exposure to cigarette chemicals induces sex-specific disruption of one-carbon metabolism and DNA methylation in the human fetal liver. BMC Medicine, 2015, 13, 18.	2.3	58

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73	Identification of tetramethylarsonium in rice grains with elevated arsenic content. Journal of Environmental Monitoring, 2011, 13, 32-34.	2.1	56
74	Cadmium and lead in vegetable and fruit produce selected from specific regional areas of the UK. Science of the Total Environment, 2015, 533, 520-527.	3.9	55
75	Selenium Supplementation in Fish: A Combined Chemical and Biomolecular Study to Understand Sel-Plex Assimilation and Impact on Selenoproteome Expression in Rainbow Trout (Oncorhynchus) Tj ETQq1 1 0.784314 rgBT /Overlo	4.3	55
76	Arsenic Shoot-Grain Relationships in Field Grown Rice Cultivars. Environmental Science & Technology, 2010, 44, 1471-1477.	4.6	54
77	Atmospheric stability of arsines and the determination of their oxidative products in atmospheric aerosols (PM₁₀): evidence of the widespread phenomena of biovolatilization of arsenic. Journal of Environmental Monitoring, 2010, 12, 409-416.	2.1	54
78	Chronic exposure to arsenic in drinking water can lead to resistance to antimonial drugs in a mouse model of visceral leishmaniasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19932-19937.	3.3	54
79	Introduction of regulations for arsenic in feed and food with emphasis on inorganic arsenic, and implications for analytical chemistry. Analytical and Bioanalytical Chemistry, 2015, 407, 8385-8396.	1.9	54
80	Arsenic accumulation and speciation analysis in wool from sheep exposed to arsenosugars. Talanta, 2002, 58, 67-76.	2.9	53
81	Isotope ratio determination of antimony from the transient signal of trimethylstibine by GC-MC-ICP-MS and GC-ICP-TOF-MS. Journal of Analytical Atomic Spectrometry, 2003, 18, 1001.	1.6	53
82	Sampling of Trace Volatile Metal(loid) Compounds in Ambient Air Using Polymer Bags:Â A Convenient Method. Analytical Chemistry, 2000, 72, 4205-4211.	3.2	52
83	Characterization of cytosolic glutathione peroxidase and phospholipid-hydroperoxide glutathione peroxidase genes in rainbow trout (Oncorhynchus mykiss) and their modulation by in vitro selenium exposure. Aquatic Toxicology, 2013, 130-131, 97-111.	1.9	52
84	Accumulation or production of arsenobetaine in humans?. Journal of Environmental Monitoring, 2010, 12, 832.	2.1	51
85	Identification of arsenolipids and their degradation products in cod-liver oil. Talanta, 2014, 118, 217-223.	2.9	51
86	Does the determination of inorganic arsenic in rice depend on the method?. TrAC - Trends in Analytical Chemistry, 2011, 30, 641-651.	5.8	49
87	Fluorine Speciation Analysis Using Reverse Phase Liquid Chromatography Coupled Off-Line to Continuum Source Molecular Absorption Spectrometry (CS-MAS): Identification and Quantification of Novel Fluorinated Organic Compounds in Environmental and Biological Samples. Analytical Chemistry, 2012, 84, 6213-6219.	3.2	49
88	Investigations into the Use of Copper and Other Metals as Indicators for the Authenticity of Scotch Whiskies. Journal of the Institute of Brewing, 2002, 108, 459-464.	0.8	48
89	Atmospheric Stability of Arsine and Methylarsines. Environmental Science & Technology, 2011, 45, 4010-4015.	4.6	48
90	Fungal Iron Availability during Deep Seated Candidiasis Is Defined by a Complex Interplay Involving Systemic and Local Events. PLoS Pathogens, 2013, 9, e1003676.	2.1	48

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91	The production of methylated organoantimony compounds byScopulariopsis brevicaulis. Applied Organometallic Chemistry, 1998, 12, 827-842.	1.7	47
92	Determination of lipid-soluble arsenic species in seaweed-eating sheep from Orkney. Applied Organometallic Chemistry, 2003, 17, 906-912.	1.7	47
93	Phytochelatins play a key role in arsenic accumulation and tolerance in the aquatic macrophyte Wolffia globosa. Environmental Pollution, 2012, 165, 18-24.	3.7	47
94	Demethylation of trimethylantimony species in aqueous solution during analysis by hydride generation/gas chromatography with AAS and ICP MS detection. Applied Organometallic Chemistry, 1998, 12, 129-136.	1.7	46
95	High proportions of inorganic arsenic in Laminaria digitata but not in Ascophyllum nodosum samples from Ireland. Chemosphere, 2017, 186, 17-23.	4.2	46
96	Determination of Ni(CO)4, Fe(CO)5, Mo(CO)6, and W(CO)6 in sewage gas by using cryotrapping gas chromatography inductively coupled plasma mass spectrometry. Journal of Environmental Monitoring, 1999, 1, 33-37.	2.1	45
97	Visceral Leishmaniasis and Arsenic: An Ancient Poison Contributing to Antimonial Treatment Failure in the Indian Subcontinent?. PLoS Neglected Tropical Diseases, 2011, 5, e1227.	1.3	45
98	High-precision isotopic analysis sheds new light on mercury metabolism in long-finned pilot whales (Globicephala melas). Scientific Reports, 2019, 9, 7262.	1.6	45
99	Arsinothioyl-sugars produced by in vitro incubation of seaweed extract with liver cytosol analysed by HPLC coupled simultaneously to ES-MS and ICP-MS. Analyst, The, 2004, 129, 1058.	1.7	43
100	Investigation into the determination of trimethylarsine in natural gas and its partitioning into gas and condensate phases using (cryotrapping)/gas chromatography coupled to inductively coupled plasma mass spectrometry and liquid/solid sorption techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 970-977.	1.5	43
101	Inorganic arsenic in seafood: Does the extraction method matter?. Food Chemistry, 2014, 150, 353-359.	4.2	43
102	Possible link between Hg and Cd accumulation in the brain of long-finned pilot whales (Globicephala) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.9	43
103	Novel non-target analysis of fluorine compounds using ICPMS/MS and HPLC-ICPMS/MS. Journal of Analytical Atomic Spectrometry, 2017, 32, 942-950.	1.6	43
104	Methylated bismuth in the environment. Applied Organometallic Chemistry, 1999, 13, 739-748.	1.7	42
105	The arsenic eaters of Styria: a different picture of people who were chronically exposed to arsenic. Applied Organometallic Chemistry, 2001, 15, 457-462.	1.7	42
106	Selenite enhances arsenate toxicity in Thunbergia alata. Environmental Chemistry, 2009, 6, 486.	0.7	41
107	Zinc deprivation inhibits extracellular matrix calcification through decreased synthesis of matrix proteins in osteoblasts. Molecular Nutrition and Food Research, 2011, 55, 1552-1560.	1.5	41
108	Biosynthesis of the Fluorinated Natural Product Nucleocidin in Streptomyces calvus Is Dependent on the bldA â€Specified Leuâ€tRNA^{UUA} Molecule. ChemBioChem, 2015, 16, 2498-2506.	1.3	41

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109	Methylmercury varies more than one order of magnitude in commercial European rice. Food Chemistry, 2017, 214, 360-365.	4.2	41
110	Methylmercury in water samples at the pg/L level by online preconcentration liquid chromatography cold vapor-atomic fluorescence spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2015, 105, 103-108.	1.5	40
111	Importance of ICPMS for speciation analysis is changing: future trends for targeted and non-targeted element speciation analysis. Analytical and Bioanalytical Chemistry, 2018, 410, 661-667.	1.9	40
112	Novel non-targeted analysis of perfluorinated compounds using fluorine-specific detection regardless of their ionisability (HPLC-ICPMS/MS-ESI-MS). Analytica Chimica Acta, 2019, 1053, 22-31.	2.6	40
113	The importance of glutathione and phytochelatins on the selenite and arsenate detoxification in Arabidopsis thaliana. Journal of Environmental Sciences, 2016, 49, 150-161.	3.2	38
114	Arsenic speciation in the earthwormsLumbricus rubellusandDendrodrilus rubidus. Environmental Toxicology and Chemistry, 2003, 22, 1302-1308.	2.2	37
115	Suboptimal dietary zinc intake promotes vascular inflammation and atherogenesis in a mouse model of atherosclerosis. Molecular Nutrition and Food Research, 2012, 56, 1097-1105.	1.5	37
116	Quantification of phytochelatins and their metal(loid) complexes: critical assessment of current analytical methodology. Analytical and Bioanalytical Chemistry, 2012, 402, 3299-3309.	1.9	37
117	Hydride generation ICP-MS as a simple method for determination of inorganic arsenic in rice for routine biomonitoring. Analytical Methods, 2014, 6, 5392-5396.	1.3	37
118	Arsenic Exposure and Outcomes of Antimonial Treatment in Visceral Leishmaniasis Patients in Bihar, India: A Retrospective Cohort Study. PLoS Neglected Tropical Diseases, 2015, 9, e0003518.	1.3	37
119	Determination of arsenic in agricultural soil samples using High-resolution continuum source graphite furnace atomic absorption spectrometry and direct solid sample analysis. Talanta, 2018, 188, 722-728.	2.9	37
120	Determination of Arsenic in Algae â€“ Results of an Interlaboratory Trial: Determination of Arsenic Species in the Water-Soluble Fraction. Mikrochimica Acta, 2005, 151, 153-166.	2.5	36
121	Is it possible to agree on a value for inorganic arsenic in food? The outcome of IMEP-112. Analytical and Bioanalytical Chemistry, 2012, 404, 2475-2488.	1.9	36
122	Detection of Inorganic Arsenic in Rice Using a Field Test Kit: A Screening Method. Analytical Chemistry, 2015, 87, 11271-11276.	3.2	36
123	Evaluation of Hg species after culinary treatments of fish. Food Control, 2015, 47, 413-419.	2.8	36
124	Absolute quantification of superoxide dismutase (SOD) using species-specific isotope dilution analysis. Analytical and Bioanalytical Chemistry, 2010, 397, 3515-3524.	1.9	35
125	Arsenolipids show different profiles in muscle tissues of four commercial fish species. Journal of Trace Elements in Medicine and Biology, 2014, 28, 131-137.	1.5	35
126	A rapid monitoring method for inorganic arsenic in rice flour using reversed phase-high performance liquid chromatography-inductively coupled plasma mass spectrometry. Journal of Chromatography A, 2017, 1479, 129-136.	1.8	35

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127	Long-term zinc deprivation accelerates rat vascular smooth muscle cell proliferation involving the down-regulation of JNK1/2 expression in MAPK signaling. Atherosclerosis, 2013, 228, 46-52.	0.4	34
128	The morphogenic responses and phytochelatin complexes induced by arsenic in Pteris vittata change in the presence of cadmium. Environmental and Experimental Botany, 2017, 133, 176-187.	2.0	34
129	Dermal Uptake of Arsenic through Human Skin Depends Strongly on Its Speciation. Environmental Science & Technology, 2010, 44, 3972-3978.	4.6	33
130	Speciation and Degradation of Triphenyltin in Typical Paddy Fields and Its Uptake into Rice Plants. Environmental Science & Technology, 2011, 45, 10524-10530.	4.6	33
131	What can the different current-detection methods offer for element speciation?. TrAC - Trends in Analytical Chemistry, 2005, 24, 228-242.	5.8	32
132	Investigation into antimony mobility in sewage sludge fermentation. Journal of Environmental Monitoring, 2005, 7, 1194.	2.1	32
133	Advantages and limitations of a desolvation system coupled online to HPLC-ICPqMS/ES-MS for the quantitative determination of sulfur and arsenic in arseno-peptide complexes. Journal of Analytical Atomic Spectrometry, 2009, 24, 108-113.	1.6	32
134	Quantitative and Qualitative Trapping of Volatile Methylated Selenium Species Entrained through Nitric Acid. Environmental Science & Technology, 2010, 44, 382-387.	4.6	32
135	First comprehensive peat depositional records for tin, lead and copper associated with the antiquity of Europe's largest cassiterite deposits. Journal of Archaeological Science, 2012, 39, 717-727.	1.2	32
136	Ancient manuring practices pollute arable soils at the St Kilda World Heritage Site, Scottish North Atlantic. Chemosphere, 2006, 64, 1818-1828.	4.2	31
137	HPLC-HG-ICP-MS: a sensitive and selective method for inorganic arsenic in seafood. Analytical and Bioanalytical Chemistry, 2012, 404, 2185-2191.	1.9	31
138	Zinc isotope ratio imaging of rat brain thin sections from stable isotope tracer studies by LA-MC-ICP-MS. Metallomics, 2012, 4, 1057.	1.0	31
139	Environmental effects on arsenosugars and arsenolipids in Ectocarpus (Phaeophyta). Environmental Chemistry, 2016, 13, 21.	0.7	31
140	Mercury Speciation and Distribution in an Egyptian Natural Gas Processing Plant. Energy & Fuels, 2016, 30, 10236-10243.	2.5	31
141	The role of selenium in mercury toxicity â€“ Current analytical techniques and future trends in analysis of selenium and mercury interactions in biological matrices. TrAC - Trends in Analytical Chemistry, 2018, 104, 95-109.	5.8	31
142	Antimony Species in Environmental Samples. International Journal of Environmental Analytical Chemistry, 2000, 77, 111-131.	1.8	30
143	Chemical Preparation of an Isotopically Enriched Superoxide Dismutase and Its Characterization as a Standard for Species-Specific Isotope Dilution Analysis. Analytical Chemistry, 2007, 79, 8381-8390.	3.2	30
144	Hydride generation activity of arsenosugars and thioarsenicals. Analytical and Bioanalytical Chemistry, 2007, 388, 775-782.	1.9	30

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145	Marginal dietary zinc deficiency in vivo induces vascular smooth muscle cell apoptosis in large arteries. Cardiovascular Research, 2013, 99, 525-534.	1.8	30
146	Arsenic and cadmium contents in Brazilian rice from different origins can vary more than two orders of magnitude. Food Chemistry, 2019, 286, 644-650.	4.2	30
147	Simultaneous stimulation of arsenic methylation and inhibition of cadmium bioaccumulation in rice grain using zero valent iron and alternate wetting and drying water management. Science of the Total Environment, 2020, 711, 134696.	3.9	30
148	Methylantimony compound formation in the medium of Scopulariopsis brevicaulis cultures:13CD3-L-methionine as a source of the methyl group. Applied Organometallic Chemistry, 1999, 13, 681-687.	1.7	29
149	Arsenic Influence on Genetic Variation in Grain Trace-Element Nutrient Content in Bengal Delta Grown Rice. Environmental Science & Technology, 2010, 44, 8284-8288.	4.6	29
150	Arsenic Speciation and Localization in Horticultural Produce Grown in a Historically Impacted Mining Region. Environmental Science & Technology, 2013, 47, 6164-6172.	4.6	29
151	Plasma processes to detect fluorine with ICPMS/MS as [Mâ€“F]⁺: an argument for building a negative mode ICPMS/MS. Journal of Analytical Atomic Spectrometry, 2018, 33, 1304-1309.	1.6	28
152	High selenium in the Carboniferous Coal Measures of Northumberland, North East England. International Journal of Coal Geology, 2018, 195, 61-74.	1.9	28
153	Cryotrapping of CO2-rich atmospheres for the analysis of volatile metal compounds using capillary GC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2001, 16, 1040-1043.	1.6	27
154	Monitoring the Arsenic and Iodine Exposure of Seaweed-Eating North Ronaldsay Sheep from the Gestational and Suckling Periods to Adulthood by Using Horns as a Dietary Archive. Environmental Science & Technology, 2007, 41, 2673-2679.	4.6	27
155	Direct online HPLC-CV-AFS method for traces of methylmercury without derivatisation: a matrix-independent method for urine, sediment and biological tissue samples. Analytical and Bioanalytical Chemistry, 2015, 407, 973-981.	1.9	27
156	Arsenic containing medium and long chain fatty acids in marine fish oil identified as degradation products using reversed-phase HPLC-ICP-MS/ESI-MS. Journal of Analytical Atomic Spectrometry, 2016, 31, 1836-1845.	1.6	27
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