Joerg Feldmann

List of Publications by Citations

287 papers	14,891 citations	59 h-index	112 g-index
296 ext. papers	16,237 ext. citations	5.9 avg, IF	6.45 L-index

#	Paper	IF	Citations
287	Metal chelation and inhibition of bacterial growth in tissue abscesses. *Science*, **2008**, 319, 962-5	33.3	627
286	Variation in arsenic speciation and concentration in paddy rice related to dietary exposure. *Environmental Science & Technology*, **2005**, 39, 5531-40	10.3	616
285	Geographical variation in total and inorganic arsenic content of polished (white) rice. *Environmental Science & Technology*, **2009**, 43, 1612-7	10.3	558
284	Greatly enhanced arsenic shoot assimilation in rice leads to elevated grain levels compared to wheat and barley. *Environmental Science & Technology*, **2007**, 41, 6854-9	10.3	542
283	Uptake kinetics of arsenic species in rice plants. *Plant Physiology*, **2002**, 128, 1120-8	6.6	529
282	Mechanisms of arsenic hyperaccumulation in Pteris vittata. Uptake kinetics, interactions with phosphate, and arsenic speciation. *Plant Physiology*, **2002**, 130, 1552-61	6.6	491
281	Arsenic accumulation and metabolism in rice (Oryza sativa L.). *Environmental Science & Technology*, **2002**, 36, 962-8	10.3	452
280	Increase in rice grain arsenic for regions of Bangladesh irrigating paddies with elevated arsenic in groundwaters. *Environmental Science & Technology*, **2006**, 40, 4903-8	10.3	405
279	Speciation and localization of arsenic in white and brown rice grains. *Environmental Science & Technology*, **2008**, 42, 1051-7	10.3	284
278	The rice aquaporin Lsi1 mediates uptake of methylated arsenic species. *Plant Physiology*, **2009**, 150, 2071-80	6.6	283
277	Uptake, translocation and transformation of arsenate and arsenite in sunflower (Helianthus annuus): formation of arsenic-phytochelatin complexes during exposure to high arsenic concentrations. *New Phytologist*, **2005**, 168, 551-8	9.8	255
276	The nature of arsenic-phytochelatin complexes in Holcus lanatus and Pteris cretica. *Plant Physiology* , **2004**, 134, 1113-22	6.6	254
275	Inorganic arsenic in rice bran and its products are an order of magnitude higher than in bulk grain. *Environmental Science & Technology*, **2008**, 42, 7542-6	10.3	247
274	Market basket survey shows elevated levels of As in South Central U.S. processed rice compared to California: consequences for human dietary exposure. *Environmental Science & Technology*, **2007**, 41, 2178-83	10.3	233
273	Grain unloading of arsenic species in rice. *Plant Physiology*, **2010**, 152, 309-19	6.6	231
272	Uptake and translocation of inorganic and methylated arsenic species by plants. *Environmental Chemistry*, **2007**, 4, 197	3.2	218
271	Complexation of arsenite with phytochelatins reduces arsenite efflux and translocation from roots to shoots in Arabidopsis. *Plant Physiology*, **2010**, 152, 2211-21	6.6	188

270	Inorganic arsenic levels in baby rice are of concern. *Environmental Pollution*, **2008**, 152, 746-9	9.3	154
269	Sulfur-containing arsenical mistaken for dimethylarsinous acid [DMA(III)] and identified as a natural metabolite in urine: major implications for studies on arsenic metabolism and toxicity. *Chemical Research in Toxicology*, **2004**, 17, 1086-91	4	139
268	Critical review or scientific opinion paper: arsenosugars--a class of benign arsenic species or justification for developing partly speciated arsenic fractionation in foodstuffs?. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 1735-41	4.4	134
267	Identification of low inorganic and total grain arsenic rice cultivars from Bangladesh. *Environmental Science & Technology*, **2009**, 43, 6070-5	10.3	133
266	Survey of arsenic and its speciation in rice products such as breakfast cereals, rice crackers and Japanese rice condiments. *Environment International*, **2009**, 35, 473-5	12.9	129
265	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, 1467-79	7	128
264	Cooking rice in a high water to rice ratio reduces inorganic arsenic content. *Journal of Environmental Monitoring*, **2009**, 11, 41-4		125
263	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, 8381-6	10.3	125
262	Two-dimensional mapping of copper and zinc in liver sections by laser ablation-inductively coupled plasma mass spectrometry. *Clinical Chemistry*, **2003**, 49, 1916-23	5.5	120
261	Occurrence of Volatile Metal and Metalloid Species in Landfill and Sewage Gases. *International Journal of Environmental Analytical Chemistry*, **1995**, 60, 339-359	1.8	116
260	Field fluxes and speciation of arsines emanating from soils. *Environmental Science & Technology*, **2011**, 45, 1798-804	10.3	115
259	Arsenic in the Meager Creek hot springs environment, British Columbia, Canada. *Science of the Total Environment*, **1999**, 236, 101-17	10.2	108
258	Laser ablation of soft tissue using a cryogenically cooled ablation cell. *Journal of Analytical Atomic Spectrometry*, **2002**, 17, 813-818	3.7	102
257	Arsenic–glutathione complexes—their stability in solution and during separation by different HPLC modes. *Journal of Analytical Atomic Spectrometry*, **2004**, 19, 183-190	3.7	100
256	A qualitative and quantitative evaluation of the seaweed diet of North Ronaldsay sheep. *Animal Feed Science and Technology*, **2003**, 105, 21-28	3	99
255	Quantitative and qualitative trapping of arsines deployed to assess loss of volatile arsenic from paddy soil. *Environmental Science & Technology*, **2009**, 43, 8270-5	10.3	98
254	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, 3589-95	7.8	93
253	Metal(loid)organic compounds in geothermal gases and waters. *Organic Geochemistry*, **1998**, 29, 1765-1778	3.1	92

252	Arsenic speciation in phloem and xylem exudates of castor bean. *Plant Physiology*, **2010**, 154, 1505-13	6.6	90
251	An arsenic-accumulating, hypertolerant brassica, Isatis capadocica. *New Phytologist*, **2009**, 184, 41-47	9.8	88
250	Investigation into mercury bound to biothiols: structural identification using ESI-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, 1753-64	4.4	86
249	Speciation without chromatography using selective hydride generation: inorganic arsenic in rice and samples of marine origin. *Analytical Chemistry*, **2014**, 86, 993-9	7.8	84
248	The molecular form of mercury in biota: identification of novel mercury peptide complexes in plants. *Chemical Communications*, **2009**, 4257-9	5.8	84
247	Can arsenic-phytochelatin complex formation be used as an indicator for toxicity in Helianthus annuus?. *Journal of Experimental Botany*, **2007**, 58, 1333-8	7	84
246	2-Dimethylarsinothioyl acetic acid identified in a biological sample: the first occurrence of a mammalian arsinothioyl metabolite. *Angewandte Chemie - International Edition*, **2004**, 43, 337-40	16.4	81
245	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, 845-51	10.3	79
244	Comprehensive analysis of lipophilic arsenic species in a brown alga (Saccharina latissima). *Analytical Chemistry*, **2013**, 85, 2817-24	7.8	78
243	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, 357-66	4.4	77
242	Critical review perspective: elemental speciation analysis methods in environmental chemistry - moving towards methodological integration. *Environmental Chemistry*, **2009**, 6, 275	3.2	76
241	The impact of a rice based diet on urinary arsenic. *Journal of Environmental Monitoring*, **2011**, 13, 257-65		74
240	Can we trust mass spectrometry for determination of arsenic peptides in plants: comparison of LC-ICP-MS and LC-ES-MS/ICP-MS with XANES/EXAFS in analysis of Thunbergia alata. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 1739-51	4.4	74
239	Arsenic metabolism in seaweed-eating sheep from Northern Scotland. *Freseniusi Journal of Analytical Chemistry*, **2000**, 368, 116-21		74
238	Phylogenomic Analysis of Natural Products Biosynthetic Gene Clusters Allows Discovery of Arseno-Organic Metabolites in Model Streptomycetes. *Genome Biology and Evolution*, **2016**, 8, 1906-16	3.9	73
237	Biotransformation of arsenate to arsenosugars by Chlorella vulgaris. *Applied Organometallic Chemistry*, **2003**, 17, 669-674	3.1	73
236	Determination of volatile metal and metalloid compounds in gases from domestic waste deposits with GC/ICP-MS. *Freseniusi Journal of Analytical Chemistry*, **1994**, 350, 228-234		73
235	Biotransformation and accumulation of arsenic in soil amended with seaweed. *Environmental Science & Technology*, **2003**, 37, 951-7	10.3	68

234	Pentavalent arsenic can bind to biomolecules. *Angewandte Chemie - International Edition*, **2007**, 46, 2594-7	16.4	67
233	Novel identification of arsenolipids using chemical derivatizations in conjunction with RP-HPLC-ICPMS/ESMS. *Analytical Chemistry*, **2013**, 85, 9321-7	7.8	65
232	GC-ICP-MS determination of dimethylselenide in human breath after ingestion of (77)Se-enriched selenite: monitoring of in-vivo methylation of selenium. *Analytical and Bioanalytical Chemistry*, **2005**, 383, 509-15	4.4	64
231	Arsenic-speciation in arsenate-resistant and non-resistant populations of the earthworm, Lumbricus rubellus. *Journal of Environmental Monitoring*, **2002**, 4, 603-8		62
230	Determination of antimony species with high-performance liquid chromatography using element specific detection. *Freseniusi Journal of Analytical Chemistry*, **1997**, 359, 484-491		60
229	In vivo formation of natural HgSe nanoparticles in the liver and brain of pilot whales. *Scientific Reports*, **2016**, 6, 34361	4.9	59
228	Inorganic arsenic levels in rice milk exceed EU and US drinking water standards. *Journal of Environmental Monitoring*, **2008**, 10, 428-31		59
227	Arsenic speciation in hair extracts. *Analytical and Bioanalytical Chemistry*, **2005**, 381, 332-8	4.4	58
226	Volatile metal and metalloid species in gases from municipal waste deposits. *Applied Organometallic Chemistry*, **1994**, 8, 65-69	3.1	57
225	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	3.7	56
224	Biovolatilisation: a poorly studied pathway of the arsenic biogeochemical cycle. *Environmental Sciences: Processes and Impacts*, **2013**, 15, 1639-51	4.3	53
223	Complementary use of capillary gas chromatography□mass spectrometry (ion trap) and gas chromatography□nductively coupled plasma mass spectrometry for the speciation of volatile antimony, tin and bismuth compounds in landfill and fermentation gases□*Analyst, The*, **1998**, 123, 815-820	5	53
222	Impact of selenium supplementation on fish antiviral responses: a whole transcriptomic analysis in rainbow trout (Oncorhynchus mykiss) fed supranutritional levels of Sel-Plex□ . *BMC Genomics*, **2016**, 17, 116	4.5	52
221	Evaluation of gel electrophoresis conditions for the separation of metal-tagged proteins with subsequent laser ablation ICP-MS detection. *Electrophoresis*, **2009**, 30, 303-14	3.6	52
220	Occurrence of Volatile Transition Metal Compounds in Landfill Gas: Synthesis of Molybdenum and Tungsten Carbonyls in the Environment. *Environmental Science & Technology*, **1997**, 31, 2125-2129	10.3	52
219	Arsenic shoot-grain relationships in field grown rice cultivars. *Environmental Science & Technology*, **2010**, 44, 1471-7	10.3	51
218	Summary of a Calibration Method for the Deteremination of VolatileMetal(loid) Compounds in Environmental Gas Samples by Using GasChromatography□nductively Coupled Plasma MassSpectrometry. *Journal of Analytical Atomic Spectrometry*, **1997**, 12, 1069-1076	3.7	50
217	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	11.4	48

216	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, 409-16		48
215	Identification of arsenolipids and their degradation products in cod-liver oil. *Talanta*, **2014**, 118, 217-23	6.2	47
214	Identification of tetramethylarsonium in rice grains with elevated arsenic content. *Journal of Environmental Monitoring*, **2011**, 13, 32-4		47
213	Does the determination of inorganic arsenic in rice depend on the method?. *TrAC - Trends in Analytical Chemistry*, **2011**, 30, 641-651	14.6	46
212	The production of methylated organoantimony compounds by Scopulariopsis brevicaulis. *Applied Organometallic Chemistry*, **1998**, 12, 827-842	3.1	46
211	Sampling of trace volatile metal(loid) compounds in ambient air using polymer bags: a convenient method. *Analytical Chemistry*, **2000**, 72, 4205-11	7.8	45
210	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, 8385-96	4.4	44
209	Cadmium and lead in vegetable and fruit produce selected from specific regional areas of the UK. *Science of the Total Environment*, **2015**, 533, 520-7	10.2	44
208	Accumulation or production of arsenobetaine in humans?. *Journal of Environmental Monitoring*, **2010**, 12, 832-7		44
207	Determination of lipid-soluble arsenic species in seaweed-eating sheep from Orkney. *Applied Organometallic Chemistry*, **2003**, 17, 906-912	3.1	44
206	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, 19932-7	11.5	43
205	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, 6213-9	7.8	42
204	Atmospheric stability of arsine and methylarsines. *Environmental Science & Technology*, **2011**, 45, 4010-5	10.3	42
203	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	3.7	42
202	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	2	42
201	Arsenic accumulation and speciation analysis in wool from sheep exposed to arsenosugars. *Talanta*, **2002**, 58, 67-76	6.2	42
200	Host-Imposed Copper Poisoning Impacts Fungal Micronutrient Acquisition during Systemic Candida albicans Infections. *PLoS ONE*, **2016**, 11, e0158683	3.7	42
199	Selenite enhances arsenate toxicity in Thunbergia alata. *Environmental Chemistry*, **2009**, 6, 486	3.2	41

198	Selenium Supplementation in Fish: A Combined Chemical and Biomolecular Study to Understand Sel-Plex Assimilation and Impact on Selenoproteome Expression in Rainbow Trout (Oncorhynchus mykiss). *PLoS ONE*, **2015**, 10, e0127041	3.7	41
197	Phytochelatins play a key role in arsenic accumulation and tolerance in the aquatic macrophyte Wolffia globosa. *Environmental Pollution*, **2012**, 165, 18-24	9.3	40
196	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	5.1	40
195	Fungal iron availability during deep seated candidiasis is defined by a complex interplay involving systemic and local events. *PLoS Pathogens*, **2013**, 9, e1003676	7.6	40
194	Methylmercury varies more than one order of magnitude in commercial European rice. *Food Chemistry*, **2017**, 214, 360-365	8.5	39
193	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	3.1	39
192	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, 1058-64	5	39
191	Visceral leishmaniasis and arsenic: an ancient poison contributing to antimonial treatment failure in the Indian subcontinent?. *PLoS Neglected Tropical Diseases*, **2011**, 5, e1227	4.8	38
190	Methylated bismuth in the environment. *Applied Organometallic Chemistry*, **1999**, 13, 739-748	3.1	38
189	Quantification of phytochelatins and their metal(loid) complexes: critical assessment of current analytical methodology. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 3299-309	4.4	35
188	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, 33-7		35
187	Novel non-target analysis of fluorine compounds using ICPMS/MS and HPLC-ICPMS/MS. *Journal of Analytical Atomic Spectrometry*, **2017**, 32, 942-950	3.7	34
186	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	3.1	34
185	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	4.4	34
184	Fungal formation of selenium and tellurium nanoparticles. *Applied Microbiology and Biotechnology*, **2019**, 103, 7241-7259	5.7	34
183	Inorganic arsenic in seafood: does the extraction method matter?. *Food Chemistry*, **2014**, 150, 353-9	8.5	34
182	High proportions of inorganic arsenic in Laminaria digitata but not in Ascophyllum nodosum samples from Ireland. *Chemosphere*, **2017**, 186, 17-23	8.4	34
181	Arsenic speciation in the earthworms Lumbricus rubellus and Dendrodrilus rubidus. *Environmental Toxicology and Chemistry*, **2003**, 22, 1302-1308	3.8	34

180	Determination of Arsenic in Algae Results of an Interlaboratory Trial: Determination of Arsenic Species in the Water-Soluble Fraction. *Mikrochimica Acta*, **2005**, 151, 153-166	5.8	34
179	Is it possible to agree on a value for inorganic arsenic in food? The outcome of IMEP-112. *Analytical and Bioanalytical Chemistry*, **2012**, 404, 2475-88	4.4	33
178	Absolute quantification of superoxide dismutase (SOD) using species-specific isotope dilution analysis. *Analytical and Bioanalytical Chemistry*, **2010**, 397, 3515-24	4.4	33
177	Biosynthesis of the Fluorinated Natural Product Nucleocidin in Streptomyces calvus Is Dependent on the bldA-Specified Leu-tRNA(UUA) Molecule. *ChemBioChem*, **2015**, 16, 2498-506	3.8	32
176	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	3.1	32
175	The arsenic eaters of Styria: a different picture of people who were chronically exposed to arsenic. *Applied Organometallic Chemistry*, **2001**, 15, 457-462	3.1	32
174	Evaluation of Hg species after culinary treatments of fish. *Food Control*, **2015**, 47, 413-419	6.2	31
173	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	4.8	30
172	Detection of Inorganic Arsenic in Rice Using a Field Test Kit: A Screening Method. *Analytical Chemistry*, **2015**, 87, 11271-6	7.8	30
171	Possible link between Hg and Cd accumulation in the brain of long-finned pilot whales (Globicephala melas). *Science of the Total Environment*, **2016**, 545-546, 407-13	10.2	30
170	Hydride generation ICP-MS as a simple method for determination of inorganic arsenic in rice for routine biomonitoring. *Analytical Methods*, **2014**, 6, 5392-5396	3.2	30
169	HPLC-HG-ICP-MS: a sensitive and selective method for inorganic arsenic in seafood. *Analytical and Bioanalytical Chemistry*, **2012**, 404, 2185-91	4.4	30
168	Zinc isotope ratio imaging of rat brain thin sections from stable isotope tracer studies by LA-MC-ICP-MS. *Metallomics*, **2012**, 4, 1057-63	4.5	30
167	Dermal uptake of arsenic through human skin depends strongly on its speciation. *Environmental Science & Technology*, **2010**, 44, 3972-8	10.3	30
166	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	3.7	30
165	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	5.9	29
164	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	2.9	29
163	Zinc deprivation inhibits extracellular matrix calcification through decreased synthesis of matrix proteins in osteoblasts. *Molecular Nutrition and Food Research*, **2011**, 55, 1552-60	5.9	29

162	Speciation and degradation of triphenyltin in typical paddy fields and its uptake into rice plants. *Environmental Science & Technology*, **2011**, 45, 10524-30	10.3	29
161	The importance of glutathione and phytochelatins on the selenite and arsenate detoxification in Arabidopsis thaliana. *Journal of Environmental Sciences*, **2016**, 49, 150-161	6.4	29
160	Quantitative and qualitative trapping of volatile methylated selenium species entrained through nitric acid. *Environmental Science & Technology*, **2010**, 44, 382-7	10.3	28
159	Chemical preparation of an isotopically enriched superoxide dismutase and its characterization as a standard for species-specific isotope dilution analysis. *Analytical Chemistry*, **2007**, 79, 8381-90	7.8	28
158	Antimony Species in Environmental Samples. *International Journal of Environmental Analytical Chemistry*, **2000**, 77, 111-131	1.8	28
157	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	4.5	27
156	Arsenic influence on genetic variation in grain trace-element nutrient content in Bengal delta grown rice. *Environmental Science & Technology*, **2010**, 44, 8284-8	10.3	27
155	Ancient manuring practices pollute arable soils at the St Kilda World Heritage Site, Scottish North Atlantic. *Chemosphere*, **2006**, 64, 1818-28	8.4	27
154	What can the different current-detection methods offer for element speciation?. *TrAC - Trends in Analytical Chemistry*, **2005**, 24, 228-242	14.6	27
153	Arsenolipids show different profiles in muscle tissues of four commercial fish species. *Journal of Trace Elements in Medicine and Biology*, **2014**, 28, 131-137	4.1	26
152	Suboptimal dietary zinc intake promotes vascular inflammation and atherogenesis in a mouse model of atherosclerosis. *Molecular Nutrition and Food Research*, **2012**, 56, 1097-105	5.9	26
151	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, 2673-9	10.3	26
150	Hydride generation activity of arsenosugars and thioarsenicals. *Analytical and Bioanalytical Chemistry*, **2007**, 388, 775-82	4.4	26
149	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	6.6	26
148	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	3.1	25
147	Identification of an arsenic tolerant double mutant with a thiol-mediated component and increased arsenic tolerance in phyA mutants. *Plant Journal*, **2007**, 49, 1064-75	6.9	25
146	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	3.1	25
145	Plasma processes to detect fluorine with ICPMS/MS as [MF]+: an argument for building a negative mode ICPMS/MS. *Journal of Analytical Atomic Spectrometry*, **2018**, 33, 1304-1309	3.7	25

144	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	6.2	24
143	Arsenic speciation and localization in horticultural produce grown in a historically impacted mining region. *Environmental Science & Technology*, **2013**, 47, 6164-72	10.3	24
142	Environmental effects on arsenosugars and arsenolipids in Ectocarpus (Phaeophyta). *Environmental Chemistry*, **2016**, 13, 21	3.2	24
141	High-precision isotopic analysis sheds new light on mercury metabolism in long-finned pilot whales (Globicephala melas). *Scientific Reports*, **2019**, 9, 7262	4.9	23
140	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, 973-81	4.4	23
139	Investigation into antimony mobility in sewage sludge fermentation. *Journal of Environmental Monitoring*, **2005**, 7, 1194-9		23
138	Mercury Speciation and Distribution in an Egyptian Natural Gas Processing Plant. *Energy & Fuels*, **2016**, 30, 10236-10243	4.1	22
137	Microanalytical isotope ratio measurements and elemental mapping using laser ablation ICP-MS for tissue thin sections: zinc tracer studies in rats. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 287-97	4.4	22
136	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	3.7	22
135	Arsenic and cadmium contents in Brazilian rice from different origins can vary more than two orders of magnitude. *Food Chemistry*, **2019**, 286, 644-650	8.5	21
134	Hg Speciation in Petroleum Hydrocarbons with Emphasis on the Reactivity of Hg Particles. *Energy & Fuels*, **2016**, 30, 130-137	4.1	21
133	High selenium in the Carboniferous Coal Measures of Northumberland, North East England. *International Journal of Coal Geology*, **2018**, 195, 61-74	5.5	21
132	Isotope ratio measurements in biological tissues using LA-ICP-MS possibilities, limitations, and perspectives. *Journal of Analytical Atomic Spectrometry*, **2013**, 28, 1367	3.7	21
131	Transformation of arsenic species during in vitro gastrointestinal digestion of vegetables. *Journal of Agricultural and Food Chemistry*, **2013**, 61, 12164-70	5.7	21
130	Determination of inorganic arsenic in seafood: Emphasizing the need for certified reference materials. *Pure and Applied Chemistry*, **2012**, 84, 191-202	2.1	21
129	Microbial transformation of metals and metalloids. *Science Progress*, **2003**, 86, 179-202	1.1	21
128	Sample preparation and storage can change arsenic speciation in human urine. *Clinical Chemistry*, **1999**, 45, 1988-97	5.5	21
127	Investigation of chemical modifiers for the direct determination of arsenic in fish oil using high-resolution continuum source graphite furnace atomic absorption spectrometry. *Talanta*, **2016**, 150, 142-7	6.2	20

126	Marginal dietary zinc deficiency in vivo induces vascular smooth muscle cell apoptosis in large arteries. *Cardiovascular Research*, **2013**, 99, 525-34	9.9	20
125	2-Dimethylarsinothioyl Acetic Acid Identified in a Biological Sample: The First Occurrence of a Mammalian Arsinothioyl Metabolite. *Angewandte Chemie*, **2004**, 116, 341-344	3.6	20
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