Andy A Meharg

List of Publications by Citations

313 papers	27,564 citations	85 h-index	158 g-index
330 ext. papers	30,129 ext. citations	7.8 avg, IF	7.21 L-index

#	Paper	IF	Citations
313	Arsenic uptake and metabolism in arsenic resistant and nonresistant plant species. *New Phytologist*, **2002**, 154, 29-43	9.8	959
312	Arsenic as a food chain contaminant: mechanisms of plant uptake and metabolism and mitigation strategies. *Annual Review of Plant Biology*, **2010**, 61, 535-59	30.7	854
311	Arsenic uptake and metabolism in plants. *New Phytologist*, **2009**, 181, 777-794	9.8	837
310	Arsenic contamination of Bangladesh paddy field soils: implications for rice contribution to arsenic consumption. *Environmental Science & Technology*, **2003**, 37, 229-34	10.3	757
309	Variation in arsenic speciation and concentration in paddy rice related to dietary exposure. *Environmental Science & Technology*, **2005**, 39, 5531-40	10.3	616
308	Geographical variation in total and inorganic arsenic content of polished (white) rice. *Environmental Science & Technology*, **2009**, 43, 1612-7	10.3	558
307	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
306	Uptake kinetics of arsenic species in rice plants. *Plant Physiology*, **2002**, 128, 1120-8	6.6	529
305	Mechanisms of arsenic hyperaccumulation in Pteris vittata. Uptake kinetics, interactions with phosphate, and arsenic speciation. *Plant Physiology*, **2002**, 130, 1552-61	6.6	491
304	Growing rice aerobically markedly decreases arsenic accumulation. *Environmental Science & Technology*, **2008**, 42, 5574-9	10.3	486
303	Arsenic accumulation and metabolism in rice (Oryza sativa L.). *Environmental Science & Technology*, **2002**, 36, 962-8	10.3	452
302	Suppression of the High Affinity Phosphate Uptake System: A Mechanism of Arsenate Tolerance inHolcus lanatusL.. *Journal of Experimental Botany*, **1992**, 43, 519-524	7	427
301	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
300	Selenium in higher plants: understanding mechanisms for biofortification and phytoremediation. *Trends in Plant Science*, **2009**, 14, 436-42	13.1	394
299	Occurrence and partitioning of cadmium, arsenic and lead in mine impacted paddy rice: Hunan, China. *Environmental Science & Technology*, **2009**, 43, 637-42	10.3	361
298	High percentage inorganic arsenic content of mining impacted and nonimpacted Chinese rice. *Environmental Science & Technology*, **2008**, 42, 5008-13	10.3	346
297	Copper- and arsenate-induced oxidative stress in Holcus lanatus L. clones with differential sensitivity. *Plant, Cell and Environment*, **2001**, 24, 713-722	8.4	344

296	Arsenic sequestration in iron plaque, its accumulation and speciation in mature rice plants (Oryza sativa L.). *Environmental Science & Technology*, **2006**, 40, 5730-6	10.3	331
295	Arsenic in rice--understanding a new disaster for South-East Asia. *Trends in Plant Science*, **2004**, 9, 415-7	13.1	325
294	Exposure to inorganic arsenic from rice: a global health issue?. *Environmental Pollution*, **2008**, 154, 169-71	9.3	298
293	Speciation and localization of arsenic in white and brown rice grains. *Environmental Science & Technology*, **2008**, 42, 1051-7	10.3	284
292	Phytochelatins are involved in differential arsenate tolerance in Holcus lanatus. *Plant Physiology*, **2001**, 126, 299-306	6.6	280
291	Variation in rice cadmium related to human exposure. *Environmental Science & Technology*, **2013**, 47, 5613-8	10.3	274
290	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
289	The nature of arsenic-phytochelatin complexes in Holcus lanatus and Pteris cretica. *Plant Physiology* , **2004**, 134, 1113-22	6.6	254
288	Methylated arsenic species in plants originate from soil microorganisms. *New Phytologist*, **2012**, 193, 665-672	9.8	253
287	Arsenic uptake and accumulation in rice (Oryza sativa L.) irrigated with contaminated water. *Plant and Soil*, **2002**, 240, 311-319	4.2	253
286	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
285	Direct evidence showing the effect of root surface iron plaque on arsenite and arsenate uptake into rice (Oryza sativa) roots. *New Phytologist*, **2005**, 165, 91-7	9.8	245
284	An altered phosphate uptake system in arsenate-tolerant Holcus lanatus L.. *New Phytologist*, **1990**, 116, 29-35	9.8	235
283	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
282	Grain unloading of arsenic species in rice. *Plant Physiology*, **2010**, 152, 309-19	6.6	231
281	Arsenite transport into paddy rice (Oryza sativa) roots. *New Phytologist*, **2003**, 157, 39-44	9.8	225
280	Integrated tolerance mechanisms: constitutive and adaptive plant responses to elevated metal concentrations in the environment. *Plant, Cell and Environment*, **1994**, 17, 989-993	8.4	224
279	Uptake and translocation of inorganic and methylated arsenic species by plants. *Environmental Chemistry*, **2007**, 4, 197	3.2	218

278	Methylated arsenic species in rice: geographical variation, origin, and uptake mechanisms. *Environmental Science & Technology*, **2013**, 47, 3957-66	10.3	205
277	Speciation and distribution of arsenic and localization of nutrients in rice grains. *New Phytologist*, **2009**, 184, 193-201	9.8	202
276	Genetic mapping of the rice ionome in leaves and grain: identification of QTLs for 17 elements including arsenic, cadmium, iron and selenium. *Plant and Soil*, **2010**, 329, 139-153	4.2	198
275	Storage of sediment-associated nutrients and contaminants in river channel and floodplain systems. *Applied Geochemistry*, **2003**, 18, 195-220	3.5	198
274	Rice-arsenate interactions in hydroponics: whole genome transcriptional analysis. *Journal of Experimental Botany*, **2008**, 59, 2267-76	7	191
273	Co-evolution of Mycorrhizal Symbionts and their Hosts to Metal-contaminated Environments. *Advances in Ecological Research*, **1999**, 30, 69-112	4.6	174
272	Silicon, the silver bullet for mitigating biotic and abiotic stress, and improving grain quality, in rice?. *Environmental and Experimental Botany*, **2015**, 120, 8-17	5.9	170
271	Antimony bioavailability in mine soils. *Environmental Pollution*, **2003**, 124, 93-100	9.3	163
270	Selenium characterization in the global rice supply chain. *Environmental Science & Technology*, **2009**, 43, 6024-30	10.3	162
269	Ectomycorrhizas extending the capabilities of rhizosphere remediation?. *Soil Biology and Biochemistry*, **2000**, 32, 1475-1484	7.5	160
268	The mechanistic basis of interactions between mycorrhizal associations and toxic metal cations. *Mycological Research*, **2003**, 107, 1253-65		157
267	Inorganic arsenic levels in baby rice are of concern. *Environmental Pollution*, **2008**, 152, 746-9	9.3	154
266	Variation in arsenic accumulation - hyperaccumulation in ferns and their allies: Rapid report. *New Phytologist*, **2003**, 157, 25-31	9.8	151
265	Arsenic speciation dynamics in paddy rice soil-water environment: sources, physico-chemical, and biological factors - A review. *Water Research*, **2018**, 140, 403-414	12.5	150
264	Relative toxicity of arsenite and arsenate on germination and early seedling growth of rice (Oryza sativa L.). *Plant and Soil*, **2002**, 243, 57-66	4.2	150
263	Organic matter-solid phase interactions are critical for predicting arsenic release and plant uptake in Bangladesh paddy soils. *Environmental Science & Technology*, **2011**, 45, 6080-7	10.3	147
262	A review of rhizosphere carbon flow modelling. *Plant and Soil*, **2000**, 222, 263-281	4.2	147
261	Phloem transport of arsenic species from flag leaf to grain during grain filling. *New Phytologist*, **2011**, 192, 87-98	9.8	146

260	Stable isotope probing analysis of the influence of liming on root exudate utilization by soil microorganisms. *Environmental Microbiology*, **2005**, 7, 828-38	5.2	146
259	Phosphorus Nutrition of Arsenate-Tolerant and Nontolerant Phenotypes of Velvetgrass. *Journal of Environmental Quality*, **1994**, 23, 234-238	3.4	146
258	Toxicity of diclofenac to Gyps vultures. *Biology Letters*, **2006**, 2, 279-82	3.6	144
257	Linking Genes to Microbial Biogeochemical Cycling: Lessons from Arsenic. *Environmental Science & Technology*, **2017**, 51, 7326-7339	10.3	142
256	Do ectomycorrhizal fungi exhibit adaptive tolerance to potentially toxic metals in the environment ?. *Plant and Soil*, **1997**, 189, 303-319	4.2	137
255	Identification of low inorganic and total grain arsenic rice cultivars from Bangladesh. *Environmental Science & Technology*, **2009**, 43, 6070-5	10.3	133
254	Understanding arsenic dynamics in agronomic systems to predict and prevent uptake by crop plants. *Science of the Total Environment*, **2017**, 581-582, 209-220	10.2	132
253	Genome wide association mapping of grain arsenic, copper, molybdenum and zinc in rice (Oryza sativa L.) grown at four international field sites. *PLoS ONE*, **2014**, 9, e89685	3.7	132
252	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
251	Cooking rice in a high water to rice ratio reduces inorganic arsenic content. *Journal of Environmental Monitoring*, **2009**, 11, 41-4		125
250	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
249	Ericoid mycorrhiza: a partnership that exploits harsh edaphic conditions. *European Journal of Soil Science*, **2003**, 54, 735-740	3.4	124
248	Loss of exudates from the roots of perennial ryegrass inoculated with a range of micro-organisms. *Plant and Soil*, **1995**, 170, 345-349	4.2	124
247	The role of the plasmalemma in metal tolerance in angiosperms. *Physiologia Plantarum*, **1993**, 88, 191-198	4.6	122
246	A critical review of labelling techniques used to quantify rhizosphere carbon-flow. *Plant and Soil*, **1994**, 166, 55-62	4.2	121
245	Removing the threat of diclofenac to critically endangered Asian vultures. *PLoS Biology*, **2006**, 4, e66	9.7	119
244	Field fluxes and speciation of arsines emanating from soils. *Environmental Science & Technology*, **2011**, 45, 1798-804	10.3	115
243	Mechanism of arsenate resistance in the ericoid mycorrhizal fungus Hymenoscyphus ericae. *Plant Physiology*, **2000**, 124, 1327-34	6.6	113

242	Variation in grain arsenic assessed in a diverse panel of rice (Oryza sativa) grown in multiple sites. *New Phytologist*, **2012**, 193, 650-664	9.8	108
241	Inorganic arsenic in rice-based products for infants and young children. *Food Chemistry*, **2016**, 191, 128-34	8.5	107
240	A review on completing arsenic biogeochemical cycle: microbial volatilization of arsines in environment. *Journal of Environmental Sciences*, **2014**, 26, 371-81	6.4	107
239	Inorganic arsenic contents in rice-based infant foods from Spain, UK, China and USA. *Environmental Pollution*, **2012**, 163, 77-83	9.3	104
238	Interactions between earthworms and arsenic in the soil environment: a review. *Environmental Pollution*, **2003**, 124, 361-73	9.3	104
237	The mechanisms of arsenate tolerance in Deschampsia cespitosa (L.) Beauv. and Agrostis capillaris L.: Adaptation of the arsenate uptake system. *New Phytologist*, **1991**, 119, 291-297	9.8	102
236	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
235	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
234	Survival and behaviour of the earthworms Lumbricus rubellus and Dendrodrilus rubidus from arsenate-contaminated and non-contaminated sites. *Soil Biology and Biochemistry*, **2001**, 33, 1239-1244	7.5	95
233	Uptake, accumulation and translocation of arsenate in arsenate-tolerant and non-tolerant Holcus lanatus L.. *New Phytologist*, **1991**, 117, 225-231	9.8	92
232	Codeposition of organic carbon and arsenic in Bengal Delta aquifers. *Environmental Science & Technology*, **2006**, 40, 4928-35	10.3	91
231	An arsenic-accumulating, hypertolerant brassica, Isatis capadocica. *New Phytologist*, **2009**, 184, 41-47	9.8	88
230	Toxicity of non-steroidal anti-inflammatory drugs to Gyps vultures: a new threat from ketoprofen. *Biology Letters*, **2010**, 6, 339-41	3.6	86
229	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
228	The molecular form of mercury in biota: identification of novel mercury peptide complexes in plants. *Chemical Communications*, **2009**, 4257-9	5.8	84
227	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
226	The dynamics of arsenic in four paddy fields in the Bengal delta. *Environmental Pollution*, **2011**, 159, 947-53	9.3	82
225	Total arsenic, inorganic arsenic, and other elements concentrations in Italian rice grain varies with origin and type. *Environmental Pollution*, **2013**, 181, 38-43	9.3	81

224	Arsenate, arsenite and dimethyl arsinic acid (DMA) uptake and tolerance in maize (Zea mays L.). *Plant and Soil*, **2008**, 304, 277-289	4.2	81
223	Arsenic limits trace mineral nutrition (selenium, zinc, and nickel) in Bangladesh rice grain. *Environmental Science & Technology*, **2009**, 43, 8430-6	10.3	80
222	Influence of Phosphate on the Arsenic Uptake by Wheat (Triticum durum L.) Irrigated with Arsenic Solutions at Three Different Concentrations. *Water, Air, and Soil Pollution*, **2009**, 197, 371-380	2.6	78
221	An arsenate tolerance gene on chromosome 6 of rice. *New Phytologist*, **2004**, 163, 45-49	9.8	76
220	Downstream changes in the transport and storage of sediment-associated contaminants (P, Cr and PCBs) in agricultural and industrialized drainage basins. *Science of the Total Environment*, **2001**, 266, 177-86	10.2	76
219	Arsenic & Rice **2012**,		75
218	The impact of a rice based diet on urinary arsenic. *Journal of Environmental Monitoring*, **2011**, 13, 257-65		74
217	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
216	A review of recent developments in the speciation and location of arsenic and selenium in rice grain. *Analytical and Bioanalytical Chemistry*, **2012**, 402, 3275-86	4.4	73
215	High-affinity phosphate/arsenate transport in white lupin (Lupinus albus) is relatively insensitive to phosphate status. *New Phytologist*, **2003**, 158, 165-173	9.8	73
214	Genetic correlation between arsenate tolerance and the rate of influx of arsenate and phosphate in Holcus lanatus L.. *Heredity*, **1992**, 69, 336-341	3.6	73
213	Potential hazard to human health from exposure to fragments of lead bullets and shot in the tissues of game animals. *PLoS ONE*, **2010**, 5, e10315	3.7	70
212	Arsenic and selenium mobilisation from organic matter treated mine spoil with and without inorganic fertilisation. *Environmental Pollution*, **2013**, 173, 238-44	9.3	69
211	Dioxins released from chemical accidents. *Nature*, **1995**, 375, 353-4	50.4	69
210	Biotransformation and accumulation of arsenic in soil amended with seaweed. *Environmental Science & Technology*, **2003**, 37, 951-7	10.3	68
209	Pentavalent arsenic can bind to biomolecules. *Angewandte Chemie - International Edition*, **2007**, 46, 2594-7	16.4	67
208	Sprinkler irrigation of rice fields reduces grain arsenic but enhances cadmium. *Science of the Total Environment*, **2014**, 485-486, 468-473	10.2	66
207	Arsenic behaviour from groundwater and soil to crops: impacts on agriculture and food safety. *Reviews of Environmental Contamination and Toxicology*, **2007**, 189, 43-87	3.5	66

206	Arsenic accumulation in rice (Oryza sativa L.) is influenced by environment and genetic factors. *Science of the Total Environment*, **2018**, 642, 485-496	10.2	65
205	Inorganic arsenic and trace elements in Ghanaian grain staples. *Environmental Pollution*, **2011**, 159, 2435-43	5.5	65
204	After the Aznalcllar mine spill: arsenic, zinc, selenium, lead and copper levels in the livers and bones of five waterfowl species. *Environmental Research*, **2006**, 100, 349-61	7.9	65
203	Mechanisms of Plant Resistance to Metal and Metalloid Ions and Potential Biotechnological Applications. *Plant and Soil*, **2005**, 274, 163-174	4.2	65
202	Use of an earthworm lysosomal biomarker for the ecological assessment of pollution from an industrial plastics fire. *Applied Soil Ecology*, **1996**, 3, 99-107	5	64
201	Effect of organic matter amendment, arsenic amendment and water management regime on rice grain arsenic species. *Environmental Pollution*, **2013**, 177, 38-47	9.3	63
200	Lead concentrations in bones and feathers of the globally threatened Spanish imperial eagle. *Biological Conservation*, **2005**, 121, 603-610	6.2	63
199	Carbon distribution within the plant and rhizosphere in laboratory and field-grown Lolium perenne at different stages of development. *Soil Biology and Biochemistry*, **1990**, 22, 471-477	7.5	63
198	Arsenic-speciation in arsenate-resistant and non-resistant populations of the earthworm, Lumbricus rubellus. *Journal of Environmental Monitoring*, **2002**, 4, 603-8		62
197	Assessing the labile arsenic pool in contaminated paddy soils by isotopic dilution techniques and simple extractions. *Environmental Science & Technology*, **2011**, 45, 4262-9	10.3	61
196	Baseline soil variation is a major factor in arsenic accumulation in Bengal Delta paddy rice. *Environmental Science & Technology*, **2009**, 43, 1724-9	10.3	60
195	Grain accumulation of selenium species in rice (Oryza sativa L.). *Environmental Science & Technology*, **2012**, 46, 5557-64	10.3	59
194	Inorganic arsenic levels in rice milk exceed EU and US drinking water standards. *Journal of Environmental Monitoring*, **2008**, 10, 428-31		59
193	Diclofenac residues in carcasses of domestic ungulates available to vultures in India. *Environment International*, **2007**, 33, 759-65	12.9	59
192	Interactions between ectomycorrhizal fungi and soil saprotrophs: implications for decomposition of organic matter in soils and degradation of organic pollutants in the rhizosphere. *Canadian Journal of Botany*, **2002**, 80, 803-809		59
191	Optimizing Peri-URban Ecosystems (PURE) to re-couple urban-rural symbiosis. *Science of the Total Environment*, **2017**, 586, 1085-1090	10.2	58
190	Assessment of bioavailable arsenic and copper in soils and sediments from the Antofagasta region of northern Chile. *Science of the Total Environment*, **2002**, 286, 51-9	10.2	58
189	The fungal microbiota of de-novo paediatric inflammatory bowel disease. *Microbes and Infection*, **2015**, 17, 304-10	9.3	57

188	Relationship between plant phosphorus status and the kinetics of arsenate influx in clones ofdeschampsia cespitosa (L.) beauv. that differ in their tolerance to arsenate. *Plant and Soil*, **1994**, 162, 99-106	4.2	57
187	Enhanced transfer of arsenic to grain for Bangladesh grown rice compared to US and EU. *Environment International*, **2009**, 35, 476-9	12.9	56
186	Resistance to copper toxicity in populations of the earthworms Lumbricus rubellus and Dendrodrilus rubidus from contaminated mine wastes. *Environmental Toxicology and Chemistry*, **2001**, 20, 2336-2341	3.8	56
185	Arsenic accumulation and phosphorus status in two rice (Oryza sativa L.) cultivars surveyed from fields in South China. *Environmental Pollution*, **2010**, 158, 1536-41	9.3	55
184	Alternate wetting and drying irrigation for rice in Bangladesh: Is it sustainable and has plant breeding something to offer?. *Food and Energy Security*, **2013**, 2, 120-129	4.1	54
183	Getting to the bottom of arsenic standards and guidelines. *Environmental Science & Technology* , **2010**, 44, 4395-9	10.3	54
182	Lead in rice: analysis of baseline lead levels in market and field collected rice grains. *Science of the Total Environment*, **2014**, 485-486, 428-434	10.2	53
181	Lux-biosensor assessment of pH effects on microbial sorption and toxicity of chlorophenols. *FEMS Microbiology Letters*, **1999**, 174, 273-8	2.9	53
180	Assessment of toxicological interactions of benzene and its primary degradation products (catechol and phenol) using a lux-modified bacterial bioassay. *Environmental Toxicology and Chemistry*, **1997**, 16, 849-856	3.8	52
179	Arsenic shoot-grain relationships in field grown rice cultivars. *Environmental Science & Technology*, **2010**, 44, 1471-7	10.3	51
178	Toxicity assessment of xenobiotic contaminated groundwater using lux modified Pseudomonas fluorescens. *Chemosphere*, **1997**, 35, 1967-85	8.4	50
177	Apparent tolerance of turkey vultures (Cathartes aura) to the non-steroidal anti-inflammatory drug diclofenac. *Environmental Toxicology and Chemistry*, **2008**, 27, 2341-5	3.8	49
176	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
175	Toxic interactions of metal ions (Cd , Pb , Zn and Sb) on in vitro biomass production of ectomycorrhizal fungi. *New Phytologist*, **1997**, 137, 551-562	9.8	48
174	Identification of tetramethylarsonium in rice grains with elevated arsenic content. *Journal of Environmental Monitoring*, **2011**, 13, 32-4		47
173	Diclofenac disposition in Indian cow and goat with reference to Gyps vulture population declines. *Environmental Pollution*, **2007**, 147, 60-5	9.3	47
172	Geographical variation in inorganic arsenic in paddy field samples and commercial rice from the Iberian Peninsula. *Food Chemistry*, **2016**, 202, 356-63	8.5	46
171	Mineralization of 2,4- dichlorophenol by ectomycorrhizal fungi in axenic culture and in symbiosis with pine. *Chemosphere*, **1997**, 34, 2495-2504	8.4	46

170	Lead contamination and associated disease in captive and reintroduced red kites Milvus milvus in England. *Science of the Total Environment*, **2007**, 376, 116-27	10.2	46
169	Arsenic and old plants. *New Phytologist*, **2002**, 156, 1-4	9.8	46
168	The genetics of arsenate tolerance in Yorkshire fog, Holcus lanatus L.. *Heredity*, **1992**, 69, 325-335	3.6	46
167	Mucosal microbiome in patients with recurrent aphthous stomatitis. *Journal of Dental Research*, **2015**, 94, 87S-94S	8.1	45
166	A comparison of carbon flow from pre-labelled and pulse-labelled plants. *Plant and Soil*, **1988**, 112, 225-231	4.1	45
165	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
164	Scopoletin 8-hydroxylase: a novel enzyme involved in coumarin biosynthesis and iron-deficiency responses in Arabidopsis. *Journal of Experimental Botany*, **2018**, 69, 1735-1748	7	44
163	Age-associated changes of brain copper, iron, and zinc in Alzheimer's disease and dementia with Lewy bodies. *Journal of Alzheimer's Disease*, **2014**, 42, 1407-13	4.3	44
162	Accumulation or production of arsenobetaine in humans?. *Journal of Environmental Monitoring*, **2010**, 12, 832-7		44
161	Risk assessment of potentially toxic elements in agricultural soils and maize tissues from selected districts in Tanzania. *Science of the Total Environment*, **2012**, 416, 180-6	10.2	42
160	Analysis of nine NSAIDs in ungulate tissues available to critically endangered vultures in India. *Environmental Science & Technology*, **2009**, 43, 4561-6	10.3	42
159	Altered porphyrin excretion and histopathology of greylag geese (Anser anser) exposed to soil contaminated with lead and arsenic in the Guadalquivir Marshes, southwestern Spain. *Environmental Toxicology and Chemistry*, **2006**, 25, 203-12	3.8	42
158	Arsenate Causes Differential Acute Toxicity to Two P-deprived Genotypes of Rice Seedlings (Oryza sativa L.). *Plant and Soil*, **2006**, 279, 297-306	4.2	42
157	Carbon flow in an upland grassland: effect of liming on the flux of recently photosynthesized carbon to rhizosphere soil. *Global Change Biology*, **2004**, 10, 2100-2108	11.4	42
156	Degradation of the polycyclic aromatic hydrocarbon (PAH) fluorene is retarded in a Scots pine ectomycorrhizosphere. *New Phytologist*, **2004**, 163, 641-649	9.8	40
155	Environment: A pre-industrial source of dioxins and furans. *Nature*, **2003**, 421, 909-10	50.4	40
154	Toxicity of mono-, di- and tri-chlorophenols to lux marked terrestrial bacteria, Burkholderia species Rasc c2 and Pseudomonas fluorescens. *Chemosphere*, **2001**, 43, 157-66	8.4	40
153	Edaphic factors affecting the toxicity and accumulation of arsenate in the earthworm Lumbricus terrestris. *Environmental Toxicology and Chemistry*, **1998**, 17, 1124-1131	3.8	37

152	Calluna vulgaris root cells show increased capacity for amino acid uptake when colonized with the mycorrhizal fungus Hymenoscyphus ericae. *New Phytologist*, **2002**, 155, 525-530	9.8	37
151	Ligand arsenic complexation and immunoperoxidase detection of metallothionein in the earthworm Lumbricus rubellus inhabiting arsenic-rich soil. *Environmental Science & Technology*, **2005**, 39, 2042-8	10.3	36
150	Inherited resistance to arsenate toxicity in two populations of Lumbricus rubellus. *Environmental Toxicology and Chemistry*, **2003**, 22, 2344-8	3.8	36
149	Identification of quantitative trait loci for rice grain element composition on an arsenic impacted soil: Influence of flowering time on genetic loci. *Annals of Applied Biology*, **2012**, 161, 46-56	2.6	35
148	Rethinking Rice Preparation for Highly Efficient Removal of Inorganic Arsenic Using Percolating Cooking Water. *PLoS ONE*, **2015**, 10, e0131608	3.7	35
147	Isotopic identification of the sources of lead contamination for white storks (Ciconia ciconia) in a marshland ecosystem (Doana, S.W. Spain). *Science of the Total Environment*, **2002**, 300, 81-6	10.2	35
146	Arsenic speciation in the earthworms Lumbricus rubellus and Dendrodrilus rubidus. *Environmental Toxicology and Chemistry*, **2003**, 22, 1302-1308	3.8	34
145	Urinary excretion of arsenic following rice consumption. *Environmental Pollution*, **2014**, 194, 181-187	9.3	33
144	Arsenic speciation in Japanese rice drinks and condiments. *Journal of Environmental Monitoring*, **2009**, 11, 1930-4		33
143	Characterization and dissolution properties of phytolith occluded phosphorus in rice straw. *Soil and Tillage Research*, **2017**, 171, 19-24	6.5	32
142	Assessing the Legacy of Red Mud Pollution in a Shallow Freshwater Lake: Arsenic Accumulation and Speciation in Macrophytes. *Environmental Science & Technology*, **2016**, 50, 9044-52	10.3	32
141	The distribution of arsenic in soils affected by the Aznalcllar mine spill, SW Spain. *Science of the Total Environment*, **2004**, 323, 137-52	10.2	32
140	Bioavailability of atrazine to soil microbes in the presence of the earthworm Lumbricus terrestrius (L.). *Soil Biology and Biochemistry*, **1996**, 28, 555-559	7.5	32
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