Andy A Meharg

List of Publications by Year
in descending order

315 papers	32,892 citations	4103 90 h-index	5244 171 g-index
330 all docs	330 docs citations	330 times ranked	18134 citing authors

#	Article	IF	Citations
1	Arsenic uptake and metabolism in arsenic resistant and nonresistant plant species. New Phytologist, 2002, 154, 29-43.	3.5	1,087
2	Arsenic as a Food Chain Contaminant: Mechanisms of Plant Uptake and Metabolism and Mitigation Strategies. Annual Review of Plant Biology, 2010, 61, 535-559.	8.6	1,023
3	Arsenic uptake and metabolism in plants. New Phytologist, 2009, 181, 777-794.	3.5	973
4	Arsenic Contamination of Bangladesh Paddy Field Soils:Â Implications for Rice Contribution to Arsenic Consumption. Environmental Science & Technology, 2003, 37, 229-234.	4.6	872
5	Variation in Arsenic Speciation and Concentration in Paddy Rice Related to Dietary Exposure. Environmental Science & Technology, 2005, 39, 5531-5540.	4.6	706
6	Geographical Variation in Total and Inorganic Arsenic Content of Polished (White) Rice. Environmental Science & Technology, 2009, 43, 1612-1617.	4.6	673
7	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
8	Uptake Kinetics of Arsenic Species in Rice Plants. Plant Physiology, 2002, 128, 1120-1128.	2.3	593
9	Growing Rice Aerobically Markedly Decreases Arsenic Accumulation. Environmental Science & Technology, 2008, 42, 5574-5579.	4.6	567
10	Mechanisms of Arsenic Hyperaccumulation in Pteris vittata. Uptake Kinetics, Interactions with Phosphate, and Arsenic Speciation. Plant Physiology, 2002, 130, 1552-1561.	2.3	548
11	Arsenic Accumulation and Metabolism in Rice (Oryza sativaL.). Environmental Science & Technology, 2002, 36, 962-968.	4.6	516
12	Selenium in higher plants: understanding mechanisms for biofortification and phytoremediation. Trends in Plant Science, 2009, 14, 436-442.	4.3	486
13	Suppression of the High Affinity Phosphate Uptake System: A Mechanism of Arsenate Tolerance inHolcus lanatusL.. Journal of Experimental Botany, 1992, 43, 519-524.	2.4	482
14	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
15	Occurrence and Partitioning of Cadmium, Arsenic and Lead in Mine Impacted Paddy Rice: Hunan, China. Environmental Science & Technology, 2009, 43, 637-642.	4.6	451
16	High Percentage Inorganic Arsenic Content of Mining Impacted and Nonimpacted Chinese Rice. Environmental Science & Technology, 2008, 42, 5008-5013.	4.6	390
17	Arsenic Sequestration in Iron Plaque, Its Accumulation and Speciation in Mature Rice Plants (Oryza) Tj ETQq1 1 0.784314 rgBT /Overlock	4.6	385
18	Copper- and arsenate-induced oxidative stress in Holcus lanatus L. clones with differential sensitivity. Plant, Cell and Environment, 2001, 24, 713-722.	2.8	382

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19	Arsenic in rice â€“ understanding a new disaster for South-East Asia. Trends in Plant Science, 2004, 9, 415-417.	4.3	375
20	Variation in Rice Cadmium Related to Human Exposure. Environmental Science & Technology, 2013, 47, 5613-5618.	4.6	365
21	Exposure to inorganic arsenic from rice: A global health issue?. Environmental Pollution, 2008, 154, 169-171.	3.7	344
22	Speciation and Localization of Arsenic in White and Brown Rice Grains. Environmental Science & Technology, 2008, 42, 1051-1057.	4.6	321
23	Methylated arsenic species in plants originate from soil microorganisms. New Phytologist, 2012, 193, 665-672.	3.5	312
24	Arsenic uptake and accumulation in rice (Oryza sativa L.) irrigated with contaminated water. Plant and Soil, 2002, 240, 311-319.	1.8	311
25	Phytochelatins Are Involved in Differential Arsenate Tolerance inHolcus lanatus. Plant Physiology, 2001, 126, 299-306.	2.3	305
26	Uptake, translocation and transformation of arsenate and arsenite in sunflower (Helianthus annuus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf New Phytologist, 2005, 168, 551-558.	3.5	282
27	Direct evidence showing the effect of root surface iron plaque on arsenite and arsenate uptake into rice (Oryza sativa) roots. New Phytologist, 2005, 165, 91-97.	3.5	279
28	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
29	Methylated Arsenic Species in Rice: Geographical Variation, Origin, and Uptake Mechanisms. Environmental Science & Technology, 2013, 47, 3957-3966.	4.6	276
30	The Nature of Arsenic-Phytochelatin Complexes in Holcus lanatus and Pteris cretica. Plant Physiology, 2004, 134, 1113-1122.	2.3	275
31	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.	1.8	275
32	Grain Unloading of Arsenic Species in Rice Â. Plant Physiology, 2009, 152, 309-319.	2.3	268
33	Integrated tolerance mechanisms: constitutive and adaptive plant responses to elevated metal concentrations in the environment. Plant, Cell and Environment, 1994, 17, 989-993.	2.8	266
34	Arsenite transport into paddy rice (Oryza sativa) roots. New Phytologist, 2003, 157, 39-44.	3.5	262
35	Uptake and translocation of inorganic and methylated arsenic species by plants. Environmental Chemistry, 2007, 4, 197.	0.7	257
36	An altered phosphate uptake system in arsenate-tolerant Holcus lanatus L.. New Phytologist, 1990, 116, 29-35.	3.5	255

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37	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
38	Arsenic speciation dynamics in paddy rice soil-water environment: sources, physico-chemical, and biological factors - A review. Water Research, 2018, 140, 403-414.	5.3	244
39	Genome Wide Association Mapping of Grain Arsenic, Copper, Molybdenum and Zinc in Rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overl	1.1	228
40	Speciation and distribution of arsenic and localization of nutrients in rice grains. New Phytologist, 2009, 184, 193-201.	3.5	226
41	Storage of sediment-associated nutrients and contaminants in river channel and floodplain systems. Applied Geochemistry, 2003, 18, 195-220.	1.4	225
42	Linking Genes to Microbial Biogeochemical Cycling: Lessons from Arsenic. Environmental Science & Technology, 2017, 51, 7326-7339.	4.6	223
43	Silicon, the silver bullet for mitigating biotic and abiotic stress, and improving grain quality, in rice?. Environmental and Experimental Botany, 2015, 120, 8-17.	2.0	218
44	Toxicity of diclofenac to Gyps vultures. Biology Letters, 2006, 2, 279-282.	1.0	210
45	Riceâ€“arsenate interactions in hydroponics: whole genome transcriptional analysis. Journal of Experimental Botany, 2008, 59, 2267-2276.	2.4	210
46	Co-evolution of Mycorrhizal Symbionts and their Hosts to Metal-contaminated Environments. Advances in Ecological Research, 1999, 30, 69-112.	1.4	193
47	Selenium Characterization in the Global Rice Supply Chain. Environmental Science & Technology, 2009, 43, 6024-6030.	4.6	191
48	The mechanistic basis of interactions between mycorrhizal associations and toxic metal cations. Mycological Research, 2003, 107, 1253-1265.	2.5	187
49	Antimony bioavailability in mine soils. Environmental Pollution, 2003, 124, 93-100.	3.7	186
50	Understanding arsenic dynamics in agronomic systems to predict and prevent uptake by crop plants. Science of the Total Environment, 2017, 581-582, 209-220.	3.9	185
51	Organic Matterâ€"Solid Phase Interactions Are Critical for Predicting Arsenic Release and Plant Uptake in Bangladesh Paddy Soils. Environmental Science & Technology, 2011, 45, 6080-6087.	4.6	181
52	Ectomycorrhizas â€" extending the capabilities of rhizosphere remediation?. Soil Biology and Biochemistry, 2000, 32, 1475-1484.	4.2	180
53	Title is missing!. Plant and Soil, 2002, 243, 57-66.	1.8	175
54	Phloem transport of arsenic species from flag leaf to grain during grain filling. New Phytologist, 2011, 192, 87-98.	3.5	170

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55	A review of rhizosphere carbon flow modelling. Plant and Soil, 2000, 222, 263-281.	1.8	168
56	Inorganic arsenic levels in baby rice are of concern. Environmental Pollution, 2008, 152, 746-749.	3.7	168
57	Removing the Threat of Diclofenac to Critically Endangered Asian Vultures. PLoS Biology, 2006, 4, e66.	2.6	167
58	Variation in arsenic accumulation â€“ hyperaccumulation in ferns and their allies. New Phytologist, 2003, 157, 25-31.	3.5	165
59	Ericoid mycorrhiza: a partnership that exploits harsh edaphic conditions. European Journal of Soil Science, 2003, 54, 735-740.	1.8	161
60	Title is missing!. Plant and Soil, 1997, 189, 303-319.	1.8	155
61	Stable isotope probing analysis of the influence of liming on root exudate utilization by soil microorganisms. Environmental Microbiology, 2005, 7, 828-838.	1.8	153
62	Phosphorus Nutrition of Arsenateâ€Tolerant and Nontolerant Phenotypes of Velvetgrass. Journal of Environmental Quality, 1994, 23, 234-238.	1.0	152
63	Identification of Low Inorganic and Total Grain Arsenic Rice Cultivars from Bangladesh. Environmental Science & Technology, 2009, 43, 6070-6075.	4.6	151
64	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
65	Cooking rice in a high water to rice ratio reduces inorganic arsenic content. Journal of Environmental Monitoring, 2009, 11, 41-44.	2.1	143
66	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
67	Field Fluxes and Speciation of Arsines Emanating from Soils. Environmental Science & Technology, 2011, 45, 1798-1804.	4.6	138
68	Inorganic arsenic in rice-based products for infants and young children. Food Chemistry, 2016, 191, 128-134.	4.2	137
69	A critical review of labelling techniques used to quantify rhizosphere carbon-flow. Plant and Soil, 1994, 166, 55-62.	1.8	129
70	Loss of exudates from the roots of perennial ryegrass inoculated with a range of micro-organisms. Plant and Soil, 1995, 170, 345-349.	1.8	129
71	Mechanism of Arsenate Resistance in the Ericoid Mycorrhizal Fungus Hymenoscyphus ericae. Plant Physiology, 2000, 124, 1327-1334.	2.3	129
72	The role of the plasmalemma in metal tolerance in angiosperms. Physiologia Plantarum, 1993, 88, 191-198.	2.6	128

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73	A review on completing arsenic biogeochemical cycle: Microbial volatilization of arsines in environment. Journal of Environmental Sciences, 2014, 26, 371-381.	3.2	128
74	Variation in grain arsenic assessed in a diverse panel of rice (<i>Oryza sativa</i>) grown in multiple sites. New Phytologist, 2012, 193, 650-664.	3.5	126
75	Interactions between earthworms and arsenic in the soil environment: a review. Environmental Pollution, 2003, 124, 361-373.	3.7	124
76	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
77	Inorganic arsenic contents in rice-based infant foods from Spain, UK, China and USA. Environmental Pollution, 2012, 163, 77-83.	3.7	121
78	Toxicity of non-steroidal anti-inflammatory drugs to <i>Gyps</i> vultures: a new threat from ketoprofen. Biology Letters, 2010, 6, 339-341.	1.0	118
79	The mechanisms of arsenate tolerance in Deschampsia cespitosa (L.) Beauv. and Agrostis capillaris L.. New Phytologist, 1991, 119, 291-297.	3.5	112
80	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
81	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.	4.2	101
82	An arsenicâ€accumulating, hypertolerant brassica, <i>Isatis capadocica</i>. New Phytologist, 2009, 184, 41-47.	3.5	101
83	Codeposition of Organic Carbon and Arsenic in Bengal Delta Aquifers. Environmental Science & Technology, 2006, 40, 4928-4935.	4.6	100
84	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
85	The molecular form of mercury in biota: identification of novel mercury peptide complexes in plants. Chemical Communications, 2009, , 4257.	2.2	99
86	Arsenic Limits Trace Mineral Nutrition (Selenium, Zinc, and Nickel) in Bangladesh Rice Grain. Environmental Science & Technology, 2009, 43, 8430-8436.	4.6	99
87	Uptake, accumulation and translocation of arsenate in arsenate-tolerant and non-tolerant Holcus lanatus L.. New Phytologist, 1991, 117, 225-231.	3.5	98
88	Arsenic accumulation in rice (Oryza sativa L.) is influenced by environment and genetic factors. Science of the Total Environment, 2018, 642, 485-496.	3.9	98
89	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
90	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.	1.1	97

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91	The dynamics of arsenic in four paddy fields in the Bengal delta. Environmental Pollution, 2011, 159, 947-953.	3.7	95
92	Arsenate, arsenite and dimethyl arsinic acid (DMA) uptake and tolerance in maize (Zea mays L.). Plant and Soil, 2008, 304, 277-289.	1.8	92
93	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.	1.1	92
94	Arsenic & Rice. , 2012, , .		92
95	Total arsenic, inorganic arsenic, and other elements concentrations in Italian rice grain varies with origin and type. Environmental Pollution, 2013, 181, 38-43.	3.7	91
96	Scopoletin 8-hydroxylase: a novel enzyme involved in coumarin biosynthesis and iron-deficiency responses in Arabidopsis. Journal of Experimental Botany, 2018, 69, 1735-1748.	2.4	86
97	An arsenate tolerance gene on chromosome 6 of rice. New Phytologist, 2004, 163, 45-49.	3.5	85
98	Highâ€affinity phosphate/arsenate transport in white lupin (Lupinus albus) is relatively insensitive to phosphate status. New Phytologist, 2003, 158, 165-173.	3.5	84
99	The impact of a rice based diet on urinary arsenic. Journal of Environmental Monitoring, 2011, 13, 257-265.	2.1	83
100	Diclofenac residues in carcasses of domestic ungulates available to vultures in India. Environment International, 2007, 33, 759-765.	4.8	82
101	Inorganic arsenic and trace elements in Ghanaian grain staples. Environmental Pollution, 2011, 159, 2435-2442.	3.7	82
102	Grain Accumulation of Selenium Species in Rice (Oryza sativa L.). Environmental Science & Technology, 2012, 46, 5557-5564.	4.6	82
103	Effect of organic matter amendment, arsenic amendment and water management regime on rice grain arsenic species. Environmental Pollution, 2013, 177, 38-47.	3.7	82
104	The role of the plasmalemma in metal tolerance in angiosperms. Physiologia Plantarum, 1993, 88, 191-198.	2.6	82
105	Downstream changes in the transport and storage of sediment-associated contaminants (P, Cr and) Tj ETQq1 1 0.784314 rgBT /Overlo 177-186.	3.9	81
106	Sprinkler irrigation of rice fields reduces grain arsenic but enhances cadmium. Science of the Total Environment, 2014, 485-486, 468-473.	3.9	81
107	Lead concentrations in bones and feathers of the globally threatened Spanish imperial eagle. Biological Conservation, 2005, 121, 603-610.	1.9	80
108	Arsenic Behaviour from Groundwater and Soil to Crops: Impacts on Agriculture and Food Safety. Reviews of Environmental Contamination and Toxicology, 2007, 189, 43-87.	0.7	80

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109	Optimizing Peri-URban Ecosystems (PURE) to re-couple urban-rural symbiosis. Science of the Total Environment, 2017, 586, 1085-1090.	3.9	80
110	A review of recent developments in the speciation and location of arsenic and selenium in rice grain. Analytical and Bioanalytical Chemistry, 2012, 402, 3275-3286.	1.9	79
111	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
112	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.	3.9	78
113	Mechanisms of Plant Resistance to Metal and Metalloid Ions and Potential Biotechnological Applications. Plant and Soil, 2005, 274, 163-174.	1.8	77
114	Pentavalent Arsenic Can Bind to Biomolecules. Angewandte Chemie - International Edition, 2007, 46, 2594-2597.	7.2	77
115	Arsenic and selenium mobilisation from organic matter treated mine spoil with and without inorganic fertilisation. Environmental Pollution, 2013, 173, 238-244.	3.7	77
116	Genetic correlation between arsenate tolerance and the rate of influx of arsenate and phosphate in Holcus lanatus L.. Heredity, 1992, 69, 336-341.	1.2	75
117	Assessing the Labile Arsenic Pool in Contaminated Paddy Soils by Isotopic Dilution Techniques and Simple Extractions. Environmental Science & Technology, 2011, 45, 4262-4269.	4.6	75
118	Assessment of bioavailable arsenic and copper in soils and sediments from the Antofagasta region of northern Chile. Science of the Total Environment, 2002, 286, 51-59.	3.9	74
119	After the AznalcÃ³llar mine spill: Arsenic, zinc, selenium, lead and copper levels in the livers and bones of five waterfowl species. Environmental Research, 2006, 100, 349-361.	3.7	74
120	Baseline Soil Variation Is a Major Factor in Arsenic Accumulation in Bengal Delta Paddy Rice. Environmental Science & Technology, 2009, 43, 1724-1729.	4.6	74
121	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.	2.0	74
122	Biotransformation and Accumulation of Arsenic in Soil Amended with Seaweed. Environmental Science & Technology, 2003, 37, 951-957.	4.6	73
123	Dioxins released from chemical accidents. Nature, 1995, 375, 353-354.	13.7	71
124	Arsenic accumulation and phosphorus status in two rice (Oryza sativa L.) cultivars surveyed from fields in South China. Environmental Pollution, 2010, 158, 1536-1541.	3.7	71
125	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
126	Use of an earthworm lysosomal biomarker for the ecological assessment of pollution from an industrial plastics fire. Applied Soil Ecology, 1996, 3, 99-107.	2.1	69

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127	Inorganic arsenic levels in rice milk exceed EU and US drinking water standards. Journal of Environmental Monitoring, 2008, 10, 428.	2.1	68
128	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.	1.2	67
129	The fungal microbiota of de-novo paediatric inflammatory bowel disease. Microbes and Infection, 2015, 17, 304-310.	1.0	67
130	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.	4.2	65
131	Getting to the bottom of arsenic standards and guidelines. Environmental Science & Technology, 2010, 44, 4395-4399.	4.6	65
132	Enhanced transfer of arsenic to grain for Bangladesh grown rice compared to US and EU. Environment International, 2009, 35, 476-479.	4.8	64
133	Apparent tolerance of turkey vultures (<i>Cathartes aura</i>) to the nonâ€steroidal antiâ€inflammatory drug diclofenac. Environmental Toxicology and Chemistry, 2008, 27, 2341-2345.	2.2	63
134	Rice Grain Cadmium Concentrations in the Global Supply-Chain. Exposure and Health, 2020, 12, 869-876.	2.8	63
135	Lux-biosensor assessment of pH effects on microbial sorption and toxicity of chlorophenols. FEMS Microbiology Letters, 1999, 174, 273-278.	0.7	62
136	Resistance to copper toxicity in populations of the earthworms <i>Lumbricus rubellus</i> and <i>Dendrodrilus rubidus</i> from contaminated mine wastes. Environmental Toxicology and Chemistry, 2001, 20, 2336-2341.	2.2	61
137	Geographical variation in inorganic arsenic in paddy field samples and commercial rice from the Iberian Peninsula. Food Chemistry, 2016, 202, 356-363.	4.2	61
138	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.	1.8	60
139	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, 1407-1413.	1.2	59
140	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
141	Assessment of toxicological interactions of benzene and its primary degradation products (catechol) Tj ETQq1 1 0.784314 rgBT /Overlo 1997, 16, 849-856.	2.2	57
142	Lead contamination and associated disease in captive and reintroduced red kites Milvus milvus in England. Science of the Total Environment, 2007, 376, 116-127.	3.9	57
143	Analysis of Nine NSAIDs in Ungulate Tissues Available to Critically Endangered Vultures in India. Environmental Science & Technology, 2009, 43, 4561-4566.	4.6	57
144	Mucosal Microbiome in Patients with Recurrent Aphthous Stomatitis. Journal of Dental Research, 2015, 94, 87S-94S.	2.5	57

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145	Diclofenac disposition in Indian cow and goat with reference to Gyps vulture population declines. Environmental Pollution, 2007, 147, 60-65.	3.7	56
146	Identification of tetramethylarsonium in rice grains with elevated arsenic content. Journal of Environmental Monitoring, 2011, 13, 32-34.	2.1	56
147	Mitigation of arsenic accumulation in rice: An agronomical, physico-chemical, and biological approach â€" A critical review. Critical Reviews in Environmental Science and Technology, 2020, 50, 31-71.	6.6	56
148	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
149	Toxicity assessment of xenobiotic contaminated groundwater using lux modified Pseudomonas fluorescens. Chemosphere, 1997, 35, 1967-1985.	4.2	54
150	Toxic interactions of metal ions (Cd 2+ , Pb 2+ , Zn 2+ and Sb 3âˆ') on in vitro biomass production of ectomycorrhizal fungi. New Phytologist, 1997, 137, 551-562.	3.5	54
151	Arsenic Shoot-Grain Relationships in Field Grown Rice Cultivars. Environmental Science & Technology, 2010, 44, 1471-1477.	4.6	54
152	The genetics of arsenate tolerance in Yorkshire fog, Holcus lanatus L.. Heredity, 1992, 69, 325-335.	1.2	53
153	Mineralization of 2,4- dichlorophenol by ectomycorrhizal fungi in axenic culture and in symbiosis with pine. Chemosphere, 1997, 34, 2495-2504.	4.2	52
154	Toxicity of mono-, di- and tri-chlorophenols to lux marked terrestrial bacteria, Burkholderia species Rasc c2 and Pseudomonas fluorescens. Chemosphere, 2001, 43, 157-166.	4.2	52
155	Accumulation or production of arsenobetaine in humans?. Journal of Environmental Monitoring, 2010, 12, 832.	2.1	51
156	Arsenic and old plants. New Phytologist, 2002, 156, 1-4.	3.5	50
157	A pre-industrial source of dioxins and furans. Nature, 2003, 421, 909-910.	13.7	49
158	Arsenate Causes Differential Acute Toxicity to Two P-deprived Genotypes of Rice Seedlings (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.8	49
159	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.	1.3	49
160	Distribution of soil selenium in China is potentially controlled by deposition and volatilization?. Scientific Reports, 2016, 6, 20953.	1.6	49
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, 180-186.	3.9	48
162	A comparison of carbon flow from pre-labelled and pulse-labelled plants. Plant and Soil, 1988, 112, 225-231.	1.8	47

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163	The role of sulfate-reducing prokaryotes in the coupling of element biogeochemical cycling. Science of the Total Environment, 2018, 613-614, 398-408.	3.9	47
164	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.	2.2	45
165	Inorganic arsenic exposure and neuropsychological development of children of 4â€“5 years of age living in Spain. Environmental Research, 2019, 174, 135-142.	3.7	45
166	Degradation of the polycyclic aromatic hydrocarbon (PAH) fluorene is retarded in a Scots pine ectomycorrhizosphere. New Phytologist, 2004, 163, 641-649.	3.5	44
167	Ligand Arsenic Complexation and Immunoperoxidase Detection of Metallothionein in the EarthwormLumbricus rubellusInhabiting Arsenic-Rich Soil. Environmental Science & Technology, 2005, 39, 2042-2048.	4.6	44
168	Rethinking Rice Preparation for Highly Efficient Removal of Inorganic Arsenic Using Percolating Cooking Water. PLoS ONE, 2015, 10, e0131608.	1.1	44
169	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.	3.5	43
170	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.	4.2	43
171	Global Sourcing of Low-Inorganic Arsenic Rice Grain. Exposure and Health, 2020, 12, 711-719.	2.8	43
172	Edaphic factors affecting the toxicity and accumulation of arsenate in the earthworm<i>Lumbricus terrestris</i>. Environmental Toxicology and Chemistry, 1998, 17, 1124-1131.	2.2	41
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