Fang-Jie Zhao

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Soil Contamination in China: Current Status and Mitigation Strategies. Environmental Science & Technology, 2015, 49, 750-759.	10.0	1,488
2	Transporters of arsenite in rice and their role in arsenic accumulation in rice grain. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9931-9935.	7.1	1,202
3	Arsenic as a Food Chain Contaminant: Mechanisms of Plant Uptake and Metabolism and Mitigation Strategies. Annual Review of Plant Biology, 2010, 61, 535-559.	18.7	1,023
4	Arsenic uptake and metabolism in plants. New Phytologist, 2009, 181, 777-794.	7.3	973
5	Phytoextraction of metals and metalloids from contaminated soils. Current Opinion in Biotechnology, 2003, 14, 277-282.	6.6	908
6	Nanotechnology: A New Opportunity in Plant Sciences. Trends in Plant Science, 2016, 21, 699-712.	8.8	690
7	Geographical Variation in Total and Inorganic Arsenic Content of Polished (White) Rice. Environmental Science & Technology, 2009, 43, 1612-1617.	10.0	673
8	Cellular compartmentation of cadmium and zinc in relation to other elements in the hyperaccumulator Arabidopsis halleri. Planta, 2000, 212, 75-84.	3.2	618
9	Selenium uptake, translocation and speciation in wheat supplied with selenate or selenite. New Phytologist, 2008, 178, 92-102.	7.3	593
10	Growing Rice Aerobically Markedly Decreases Arsenic Accumulation. Environmental Science & Technology, 2008, 42, 5574-5579.	10.0	567
11	Mechanisms of Arsenic Hyperaccumulation in Pteris vittata. Uptake Kinetics, Interactions with Phosphate, and Arsenic Speciation. Plant Physiology, 2002, 130, 1552-1561.	4.8	548
12	Phytoremediation of Heavy Metalâ€"Contaminated Soils: Natural Hyperaccumulation versus Chemically Enhanced Phytoextraction. Journal of Environmental Quality, 2001, 30, 1919-1926.	2.0	493
13	Selenium in higher plants: understanding mechanisms for biofortification and phytoremediation. Trends in Plant Science, 2009, 14, 436-442.	8.8	486
14	Plant and rhizosphere processes involved in phytoremediation of metal-contaminated soils. Plant and Soil, 2001, 232, 207-214.	3.7	455
15	A New Method to Measure Effective Soil Solution Concentration Predicts Copper Availability to Plants. Environmental Science & Technology, 2001, 35, 2602-2607.	10.0	435
16	Leaching of heavy metals from contaminated soils using EDTA. Environmental Pollution, 2001, 113, 111-120.	7.5	429
17	Variation in mineral micronutrient concentrations in grain of wheat lines of diverse origin. Journal of Cereal Science, 2009, 49, 290-295.	3.7	423
18	Earth Abides Arsenic Biotransformations. Annual Review of Earth and Planetary Sciences, 2014, 42, 443-467.	11.0	423

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19	Cadmium contamination in agricultural soils of China and the impact on food safety. Environmental Pollution, 2019, 249, 1038-1048.	7.5	395
20	Function of Nutrients. , 2012, , 191-248.		383
21	Biofortification of UK food crops with selenium. Proceedings of the Nutrition Society, 2006, 65, 169-181.	1.0	378
22	Evidence of decreasing mineral density in wheat grain over the last 160 years. Journal of Trace Elements in Medicine and Biology, 2008, 22, 315-324.	3.0	373
23	Title is missing!. Plant and Soil, 2003, 249, 37-43.	3.7	370
24	Field evaluation of in situ remediation of a heavy metal contaminated soil using lime and red-mud. Environmental Pollution, 2006, 142, 530-539.	7.5	365
25	Variation in Rice Cadmium Related to Human Exposure. Environmental Science & Technology, 2013, 47, 5613-5618.	10.0	365
26	Arsenic hyperaccumulation by different fern species. New Phytologist, 2002, 156, 27-31.	7.3	361
27	Mitigation of Arsenic Accumulation in Rice with Water Management and Silicon Fertilization. Environmental Science & Technology, 2009, 43, 3778-3783.	10.0	356
28	Cadmium accumulation in populations of Thlaspi caerulescens and Thlaspi goesingense. New Phytologist, 2000, 145, 11-20.	7.3	354
29	The Rice Aquaporin Lsi1 Mediates Uptake of Methylated Arsenic Species Â. Plant Physiology, 2009, 150, 2071-2080.	4.8	350
30	Rapid reduction of arsenate in the medium mediated by plant roots. New Phytologist, 2007, 176, 590-599.	7.3	340
31	Sulphur Assimilation and Effects on Yield and Quality of Wheat. Journal of Cereal Science, 1999, 30, 1-17.	3.7	330
32	Characteristics of cadmium uptake in two contrasting ecotypes of the hyperaccumulator Thlaspi caerulescens. Journal of Experimental Botany, 2002, 53, 535-543.	4.8	328
33	Arsenic and cadmium accumulation in rice and mitigation strategies. Plant and Soil, 2020, 446, 1-21.	3.7	327
34	Cellular compartmentation of nickel in the hyperaccumulators Alyssum lesbiacum, Alyssum bertolonii and Thlaspi goesingense. Journal of Experimental Botany, 2001, 52, 2291-2300.	4.8	317
35	Methylated arsenic species in plants originate from soil microorganisms. New Phytologist, 2012, 193, 665-672.	7.3	312
36	Zinc hyperaccumulation and cellular distribution in Arabidopsis halleri. Plant, Cell and Environment, 2000, 23, 507-514.	5.7	307

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37	Research Priorities for Conservation of Metallophyte Biodiversity and their Potential for Restoration and Site Remediation. Restoration Ecology, 2004, 12, 106-116.	2.9	304
38	Investigating the Contribution of the Phosphate Transport Pathway to Arsenic Accumulation in Rice Â. Plant Physiology, 2011, 157, 498-508.	4.8	299
39	In situ fixation of metals in soils using bauxite residue: chemical assessment. Environmental Pollution, 2002, 118, 435-443.	7.5	297
40	Influence of Iron Status on Cadmium and Zinc Uptake by Different Ecotypes of the Hyperaccumulator Thlaspi caerulescens. Plant Physiology, 2002, 128, 1359-1367.	4.8	293
41	Antibiotics and antibiotic resistance from animal manures to soil: a review. European Journal of Soil Science, 2018, 69, 181-195.	3.9	291
42	Comparison of three wet digestion methods for the determination of plant sulphur by inductively coupled plasma atomic emission spectroscopy (ICPâ€AES). Communications in Soil Science and Plant Analysis, 1994, 25, 407-418.	1.4	288
43	Arsenic distribution and speciation in the fronds of the hyperaccumulator Pteris vittata. New Phytologist, 2002, 156, 195-203.	7.3	285
44	Biofortification and phytoremediation. Current Opinion in Plant Biology, 2009, 12, 373-380.	7.1	277
45	Rice is more efficient in arsenite uptake and translocation than wheat and barley. Plant and Soil, 2010, 328, 27-34.	3.7	277
46	Methylated Arsenic Species in Rice: Geographical Variation, Origin, and Uptake Mechanisms. Environmental Science & Technology, 2013, 47, 3957-3966.	10.0	276
47	Field evaluation of Cd and Zn phytoextraction potential by the hyperaccumulators Thlaspi caerulescens and Arabidopsis halleri. Environmental Pollution, 2006, 141, 115-125.	7.5	268
48	Title is missing!. Plant and Soil, 1997, 188, 153-159.	3.7	259
49	Uptake and transport of zinc in the hyperaccumulator Thlaspi caerulescens and the non-hyperaccumulator Thlaspi ochroleucum. Plant, Cell and Environment, 1997, 20, 898-906.	5.7	257
50	Physiological evidence for a highâ€affinity cadmium transporter highly expressed in a Thlaspi caerulescens ecotype. New Phytologist, 2001, 149, 53-60.	7.3	254
51	Selenium biofortification of high-yielding winter wheat (Triticum aestivum L.) by liquid or granular Se fertilisation. Plant and Soil, 2010, 332, 5-18.	3.7	242
52	Ironâ€"Manganese (Oxyhydro)oxides, Rather than Oxidation of Sulfides, Determine Mobilization of Cd during Soil Drainage in Paddy Soil Systems. Environmental Science & Technology, 2019, 53, 2500-2508.	10.0	236
53	The role of phytochelatins in arsenic tolerance in the hyperaccumulator Pteris vittata. New Phytologist, 2003, 159, 403-410.	7.3	231
54	Dietary cadmium intake from rice and vegetables and potential health risk: A case study in Xiangtan, southern China. Science of the Total Environment, 2018, 639, 271-277.	8.0	231

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55	The aromatic/arginine selectivity filter of NIP aquaporins plays a critical role in substrate selectivity for silicon, boron, and arsenic. Journal of Experimental Botany, 2011, 62, 4391-4398.	4.8	229
56	Genome Wide Association Mapping of Grain Arsenic, Copper, Molybdenum and Zinc in Rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	228
57	Genome-wide Association Mapping Identifies a New Arsenate Reductase Enzyme Critical for Limiting Arsenic Accumulation in Plants. PLoS Biology, 2014, 12, e1002009.	5.6	227
58	A Terrestrial Biotic Ligand Model. 1. Development and Application to Cu and Ni Toxicities to Barley Root Elongation in Soils. Environmental Science & Technology, 2006, 40, 7085-7093.	10.0	224
59	Isotopic discrimination of zinc in higher plants. New Phytologist, 2005, 165, 703-710.	7.3	219
60	Predicting Cadmium Concentrations in Wheat and Barley Grain Using Soil Properties. Journal of Environmental Quality, 2004, 33, 532-541.	2.0	218
61	Subcellular localisation of Cd and Zn in the leaves of a Cd-hyperaccumulating ecotype of Thlaspi caerulescens. Planta, 2005, 220, 731-736.	3.2	217
62	Cadmium uptake, translocation and tolerance in the hyperaccumulator Arabidopsis halleri. New Phytologist, 2006, 172, 646-654.	7.3	212
63	Role of salicylic acid in alleviating oxidative damage in rice roots (Oryza sativa) subjected to cadmium stress. Environmental Pollution, 2007, 147, 743-749.	7.5	212
64	OsNRAMP5 contributes to manganese translocation and distribution in rice shoots. Journal of Experimental Botany, 2014, 65, 4849-4861.	4.8	211
65	Title is missing!. Plant and Soil, 1997, 197, 71-78.	3.7	210
66	Complexation of Arsenite with Phytochelatins Reduces Arsenite Efflux and Translocation from Roots to Shoots in Arabidopsis. Plant Physiology, 2010, 152, 2211-2221.	4.8	206
67	OsHAC1;1 and OsHAC1;2 Function as Arsenate Reductases and Regulate Arsenic Accumulation. Plant Physiology, 2016, 172, 1708-1719.	4.8	200
68	Strategies for increasing the selenium content of wheat. Journal of Cereal Science, 2007, 46, 282-292.	3.7	196
69	The role of the rice aquaporin Lsi1 in arsenite efflux from roots. New Phytologist, 2010, 186, 392-399.	7.3	196
70	Diversity and Abundance of Arsenic Biotransformation Genes in Paddy Soils from Southern China. Environmental Science & Technology, 2015, 49, 4138-4146.	10.0	195
71	Heavy metal ATPase 3 (HMA3) confers cadmium hypertolerance on the cadmium/zinc hyperaccumulator <i>Sedum plumbizincicola</i>. New Phytologist, 2017, 215, 687-698.	7.3	191
72	<scp>OsNRAMP1</scp> transporter contributes to cadmium and manganese uptake in rice. Plant, Cell and Environment, 2020, 43, 2476-2491.	5.7	191

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73	Copper uptake by Elsholtzia splendens and Silene vulgaris and assessment of copper phytoavailability in contaminated soils. Environmental Pollution, 2004, 128, 307-315.	7.5	175
74	Sulphur uptake, yield responses and the interactions between nitrogen and sulphur in winter oilseed rape (<i>Brassica napus</i>). Journal of Agricultural Science, 1996, 126, 53-62.	1.3	174
75	Root exudates of the hyperaccumulator Thlaspi caerulescens do not enhance metal mobilization. New Phytologist, 2001, 151, 613-620.	7.3	174
76	Effective methods to reduce cadmium accumulation in rice grain. Chemosphere, 2018, 207, 699-707.	8.2	170
77	A lossâ€ofâ€function allele of <i>OsHMA3</i> associated with high cadmium accumulation in shoots and grain of <i>Japonica</i> rice cultivars. Plant, Cell and Environment, 2016, 39, 1941-1954.	5.7	168
78	Distribution of Sulfur within Oilseed Rape Leaves in Response to Sulfur Deficiency during Vegetative Growth. Plant Physiology, 1998, 118, 1337-1344.	4.8	167
79	Mutation in Nicotianamine Aminotransferase Stimulated the Fe(II) Acquisition System and Led to Iron Accumulation in Rice. Plant Physiology, 2007, 145, 1647-1657.	4.8	167
80	Mineral Availability as a Key Regulator of Soil Carbon Storage. Environmental Science & Technology, 2017, 51, 4960-4969.	10.0	167
81	Arsenic Methylation in Soils and Its Relationship with Microbial <i>arsM</i> Abundance and Diversity, and As Speciation in Rice. Environmental Science & Technology, 2013, 47, 7147-7154.	10.0	166
82	Changes in antibiotic concentrations and antibiotic resistome during commercial composting of animal manures. Environmental Pollution, 2016, 219, 182-190.	7.5	166
83	Terrestrial Biotic Ligand Model. 2. Application to Ni and Cu Toxicities to Plants, Invertebrates, and Microbes in Soil. Environmental Science & Technology, 2006, 40, 7094-7100.	10.0	164
84	Genome-Wide Association Studies Reveal the Genetic Basis of Ionomic Variation in Rice. Plant Cell, 2018, 30, 2720-2740.	6.6	164
85	Highly efficient xylem transport of arsenite in the arsenic hyperaccumulator <i>Pteris vittata</i>. New Phytologist, 2008, 180, 434-441.	7.3	161
86	SOIL FACTORS CONTROLLING THE EXPRESSION OF COPPER TOXICITY TO PLANTS IN A WIDE RANGE OF EUROPEAN SOILS. Environmental Toxicology and Chemistry, 2006, 25, 726.	4.3	159
87	The role of OsPT8 in arsenate uptake and varietal difference in arsenate tolerance in rice. Journal of Experimental Botany, 2016, 67, 6051-6059.	4.8	158
88	Heavy metal concentrations and arsenic speciation in animal manure composts in China. Waste Management, 2017, 64, 333-339.	7.4	158
89	Characterization of Cd Translocation and Identification of the Cd Form in Xylem Sap of the Cd-Hyperaccumulator Arabidopsis halleri. Plant and Cell Physiology, 2008, 49, 540-548.	3.1	157
90	Combined NanoSIMS and synchrotron Xâ€ray fluorescence reveal distinct cellular and subcellular distribution patterns of trace elements in rice tissues. New Phytologist, 2014, 201, 104-115.	7.3	157

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91	OsHAC4 is critical for arsenate tolerance and regulates arsenic accumulation in rice. New Phytologist, 2017, 215, 1090-1101.	7.3	156
92	Identification of Low Inorganic and Total Grain Arsenic Rice Cultivars from Bangladesh. Environmental Science & Technology, 2009, 43, 6070-6075.	10.0	151
93	Influence of Sulfur Deficiency on the Expression of Specific Sulfate Transporters and the Distribution of Sulfur, Selenium, and Molybdenum in Wheat. Plant Physiology, 2010, 153, 327-336.	4.8	151
94	Copper Speciation and Impacts on Bacterial Biosensors in the Pore Water of Copper-Contaminated Soils. Environmental Science & Technology, 2000, 34, 5115-5121.	10.0	150
95	Phytotoxicity of nickel in a range of European soils: Influence of soil properties, Ni solubility and speciation. Environmental Pollution, 2007, 145, 596-605.	7.5	150
96	Geographical variations of cadmium and arsenic concentrations and arsenic speciation in Chinese rice. Environmental Pollution, 2018, 238, 482-490.	7.5	148
97	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.	10.0	146
98	Control of arsenic mobilization in paddy soils by manganese and iron oxides. Environmental Pollution, 2017, 231, 37-47.	7.5	145
99	In situ fixation of metals in soils using bauxite residue: biological effects. Environmental Pollution, 2002, 118, 445-452.	7.5	143
100	Arsenic Bioavailability to Rice Is Elevated in Bangladeshi Paddy Soils. Environmental Science & Technology, 2010, 44, 8515-8521.	10.0	139
101	Influence of sulphur and nitrogen on seed yield and quality of low glucosinolate oilseed rape (Brassica napus L). Journal of the Science of Food and Agriculture, 1993, 63, 29-37.	3.5	138
102	Imaging element distribution and speciation in plant cells. Trends in Plant Science, 2014, 19, 183-192.	8.8	138
103	Uptake and distribution of nickel and other metals in the hyperaccumulator Berkheya coddii. New Phytologist, 2003, 158, 279-285.	7.3	135
104	Effect of nitrogen form on the rhizosphere dynamics and uptake of cadmium and zinc by the hyperaccumulator Thlaspi caerulescens. Plant and Soil, 2009, 318, 205-215.	3.7	131
105	Pathways and Relative Contributions to Arsenic Volatilization from Rice Plants and Paddy Soil. Environmental Science & Technology, 2012, 46, 8090-8096.	10.0	131
106	Elemental imaging at the nanoscale: NanoSIMS and complementary techniques for element localisation in plants. Analytical and Bioanalytical Chemistry, 2012, 402, 3263-3273.	3.7	131
107	Toxic metals and metalloids: Uptake, transport, detoxification, phytoremediation, and crop improvement for safer food. Molecular Plant, 2022, 15, 27-44.	8.3	131
108	Longâ€Term Changes in the Extractability and Bioavailability of Zinc and Cadmium after Sludge Application. Journal of Environmental Quality, 2000, 29, 875-883.	2.0	129

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109	Effect of soil characteristics on Cd uptake by the hyperaccumulator Thlaspi caerulescens. Environmental Pollution, 2006, 139, 167-175.	7.5	127
110	Arsenite transport in plants. Cellular and Molecular Life Sciences, 2009, 66, 2329-2339.	5.4	127
111	Phytotoxicity and bioavailability of cobalt to plants in a range of soils. Chemosphere, 2009, 75, 979-986.	8.2	127
112	Extractable sulphate and organic sulphur in soils and their availability to plants. Plant and Soil, 1994, 164, 243-250.	3.7	126
113	NanoSIMS analysis of arsenic and selenium in cereal grain. New Phytologist, 2010, 185, 434-445.	7.3	126
114	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.	7.3	126
115	Genotypic and Environmental Variations in Grain Cadmium and Arsenic Concentrations Among a Panel of High Yielding Rice Cultivars. Rice, 2017, 10, 9.	4.0	124
116	High-Resolution Secondary Ion Mass Spectrometry Reveals the Contrasting Subcellular Distribution of Arsenic and Silicon in Rice Roots Â Â Â. Plant Physiology, 2011, 156, 913-924.	4.8	122
117	Decreasing arsenic accumulation in rice by overexpressing <i>Os<scp>NIP</scp>1;1</i> and <i>Os<scp>NIP</scp>3;3</i> through disrupting arsenite radial transport in roots. New Phytologist, 2018, 219, 641-653.	7.3	122
118	Sulfate-reducing bacteria and methanogens are involved in arsenic methylation and demethylation in paddy soils. ISME Journal, 2019, 13, 2523-2535.	9.8	122
119	Spatial distribution of arsenic and temporal variation of its concentration in rice. New Phytologist, 2011, 189, 200-209.	7.3	121
120	Anaerobic Arsenite Oxidation by an Autotrophic Arsenite-Oxidizing Bacterium from an Arsenic-Contaminated Paddy Soil. Environmental Science & Technology, 2015, 49, 5956-5964.	10.0	121
121	Expression and functional analysis of metal transporter genes in two contrasting ecotypes of the hyperaccumulator Thlaspi caerulescens. Journal of Experimental Botany, 2007, 58, 1717-1728.	4.8	119
122	Selenium Speciation in Soil and Rice: Influence of Water Management and Se Fertilization. Journal of Agricultural and Food Chemistry, 2010, 58, 11837-11843.	5.2	118
123	Microbe mediated arsenic release from iron minerals and arsenic methylation in rhizosphere controls arsenic fate in soil-rice system after straw incorporation. Environmental Pollution, 2018, 236, 598-608.	7.5	118
124	Arsenic uptake and speciation in the rootless duckweed <i>Wolffia globosa</i>. New Phytologist, 2009, 182, 421-428.	7.3	111
125	Nramp5 expression and functionality likely explain higher cadmium uptake in rice than in wheat and maize. Plant and Soil, 2018, 433, 377-389.	3.7	111
126	Selenium concentration and speciation in biofortified flour and bread: Retention of selenium during grain biofortification, processing and production of Se-enriched food. Food Chemistry, 2011, 126, 1771-1778.	8.2	110

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127	Producing cadmium-free Indica rice by overexpressing OsHMA3. Environment International, 2019, 126, 619-626.	10.0	110
128	Evidence for the mechanisms of zinc uptake by rice using isotope fractionation. Plant, Cell and Environment, 2010, 33, 370-381.	5.7	107
129	Evidence of low selenium concentrations in UK bread-making wheat grain. Journal of the Science of Food and Agriculture, 2002, 82, 1160-1165.	3.5	106
130	Arsenic Speciation in Phloem and Xylem Exudates of Castor Bean. Plant Physiology, 2010, 154, 1505-1513.	4.8	104
131	Impact of agronomic practices on arsenic accumulation and speciation in rice grain. Environmental Pollution, 2014, 194, 217-223.	7.5	104
132	Scale and causes of lead contamination in Chinese tea. Environmental Pollution, 2006, 139, 125-132.	7.5	102
133	The role of nodes in arsenic storage and distribution in rice. Journal of Experimental Botany, 2015, 66, 3717-3724.	4.8	99
134	Arsenic hyperaccumulation by Pteris vittata from arsenic contaminated soils and the effect of liming and phosphate fertilisation. Environmental Pollution, 2004, 132, 113-120.	7.5	98
135	Phytoremediation of arsenic contaminated paddy soils with Pteris vittata markedly reduces arsenic uptake by rice. Environmental Pollution, 2011, 159, 3739-3743.	7.5	98
136	Long-term effects of manure and chemical fertilizers on soil antibiotic resistome. Soil Biology and Biochemistry, 2018, 122, 111-119.	8.8	98
137	Long-Term Impact of Field Applications of Sewage Sludge on Soil Antibiotic Resistome. Environmental Science & Technology, 2016, 50, 12602-12611.	10.0	97
138	OsATX1 Interacts with Heavy Metal P1B-Type ATPases and Affects Copper Transport and Distribution. Plant Physiology, 2018, 178, 329-344.	4.8	96
139	Influence of nitrogen and sulphur on the glucosinolate profile of rapeseed (brassica napus l). Journal of the Science of Food and Agriculture, 1994, 64, 295-304.	3.5	95
140	Identification of the form of Cd in the leaves of a superior Cd-accumulating ecotype of Thlaspi caerulescens using 113Cd-NMR. Planta, 2005, 221, 928-936.	3.2	95
141	Measurement of zinc stable isotope ratios in biogeochemical matrices by double-spike MC-ICPMS and determination of the isotope ratio pool available for plants from soil. Analytical and Bioanalytical Chemistry, 2010, 398, 3115-3125.	3.7	95
142	The dynamics of arsenic in four paddy fields in the Bengal delta. Environmental Pollution, 2011, 159, 947-953.	7.5	95
143	Nitrate Stimulates Anaerobic Microbial Arsenite Oxidation in Paddy Soils. Environmental Science & Technology, 2017, 51, 4377-4386.	10.0	95
144	Variation in the Breadmaking Quality and Rheological Properties of Wheat in Relation to Sulphur Nutrition under Field Conditions. Journal of Cereal Science, 1999, 30, 19-31.	3.7	93

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145	Comparison of root absorption, translocation and tolerance of arsenic in the hyperaccumulator Pteris vittata and the nonhyperaccumulator Pteris tremula. New Phytologist, 2005, 165, 755-761.	7.3	92
146	Arsenic & Rice. , 2012, , .		92
147	Feasibility of phytoextraction to remediate cadmium and zinc contaminated soils. Environmental Pollution, 2008, 156, 905-914.	7.5	91
148	Title is missing!. Plant and Soil, 2000, 225, 95-107.	3.7	90
149	Variation in rootâ€toâ€shoot translocation of cadmium and zinc among different accessions of the hyperaccumulators <i>Thlaspi caerulescens </i>and <i> Thlaspi praecox</i>. New Phytologist, 2008, 178, 315-325.	7.3	90
150	Particle-specific toxicity and bioavailability of cerium oxide (CeO2) nanoparticles to Arabidopsis thaliana. Journal of Hazardous Materials, 2017, 322, 292-300.	12.4	90
151	Arsenic accumulation by the aquatic fern Azolla: Comparison of arsenate uptake, speciation and efflux by A. caroliniana and A. filiculoides. Environmental Pollution, 2008, 156, 1149-1155.	7.5	89
152	A risk assessment of sulphur deficiency in cereals using soil and atmospheric deposition data. Soil Use and Management, 1995, 11, 110-114.	4.9	87
153	Arsenateâ€induced toxicity: Effects on antioxidative enzymes and DNA damage in <i>Vicia faba</i>. Environmental Toxicology and Chemistry, 2008, 27, 413-419.	4.3	86
154	Accumulation, Distribution, and Speciation of Arsenic in Wheat Grain. Environmental Science & Technology, 2010, 44, 5464-5468.	10.0	86
155	Efficient Arsenic Methylation and Volatilization Mediated by a Novel Bacterium from an Arsenic-Contaminated Paddy Soil. Environmental Science & Technology, 2016, 50, 6389-6396.	10.0	86
156	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. Environmental Science: Nano, 2017, 4, 448-460.	4.3	85
157	Comparison of <i>aqua regia</i> digestion with sodium carbonate fusion for the determination of total phosphorus in soils by inductively coupled plasma atomic emission spectroscopy (ICP). Communications in Soil Science and Plant Analysis, 1995, 26, 1357-1368.	1.4	84
158	Cadmium hyperaccumulation protects Thlaspi caerulescens from leaf feeding damage by thrips () Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	7.3	84
159	Does cadmium play a physiological role in the hyperaccumulator Thlaspi caerulescens?. Chemosphere, 2008, 71, 1276-1283.	8.2	84
160	Soil factors affecting selenium concentration in wheat grain and the fate and speciation of Se fertilisers applied to soil. Plant and Soil, 2010, 332, 19-30.	3.7	84
161	Arsenic Methylation and Volatilization by Arsenite <i>S</i> -Adenosylmethionine Methyltransferase in Pseudomonas alcaligenes NBRC14159. Applied and Environmental Microbiology, 2015, 81, 2852-2860.	3.1	84
162	The Nodulin 26-like intrinsic membrane protein OsNIP3;2 is involved in arsenite uptake by lateral roots in rice. Journal of Experimental Botany, 2017, 68, 3007-3016.	4.8	84

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163	COMPARISON OF SOIL SOLUTION SPECIATION AND DIFFUSIVE GRADIENTS IN THIN-FILMS MEASUREMENT AS AN INDICATOR OF COPPER BIOAVAILABILITY TO PLANTS. Environmental Toxicology and Chemistry, 2006, 25, 733.	4.3	83
164	Responses of two wheat varieties to sulphur addition and diagnosis of sulphur deficiency. Plant and Soil, 1996, 181, 317-327.	3.7	80
165	INFLUENCE OF SOIL PROPERTIES AND AGING ON ARSENIC PHYTOTOXICITY. Environmental Toxicology and Chemistry, 2006, 25, 1663.	4.3	80
166	Estimates of ambient background concentrations of trace metals in soils for risk assessment. Environmental Pollution, 2007, 148, 221-229.	7.5	80
167	Transcriptional and physiological analyses identify a regulatory role for hydrogen peroxide in the lignin biosynthesis of copper-stressed rice roots. Plant and Soil, 2015, 387, 323-336.	3.7	79
168	Proteomic analysis of copper stress responses in the roots of two rice (Oryza sativa L.) varieties differing in Cu tolerance. Plant and Soil, 2013, 366, 647-658.	3.7	78
169	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.	8.0	78
170	Sulphur speciation and turnover in soils: evidence from sulphur K-edge XANES spectroscopy and isotope dilution studies. Soil Biology and Biochemistry, 2006, 38, 1000-1007.	8.8	75
171	Assessing the Labile Arsenic Pool in Contaminated Paddy Soils by Isotopic Dilution Techniques and Simple Extractions. Environmental Science & Technology, 2011, 45, 4262-4269.	10.0	75
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