Fang-Jie Zhao

List of Publications by Year
in descending order

368 papers	45,896 citations	1027 / 117 h-index	2750 / 198 g-index
377 all docs	377 docs citations	377 times ranked	25560 citing authors

#	Article	IF	Citations
1	Dietary cadmium exposure, risks to human health and mitigation strategies. Critical Reviews in Environmental Science and Technology, 2023, 53, 939-963.	6.6	37
2	Oxidation of organoarsenicals and antimonite by a novel flavin monooxygenase widely present in soil bacteria. Environmental Microbiology, 2022, 24, 752-761.	1.8	26
3	Toxic metals and metalloids: Uptake, transport, detoxification, phytoremediation, and crop improvement for safer food. Molecular Plant, 2022, 15, 27-44.	3.9	131
4	What is a plant nutrient? Changing definitions to advance science and innovation in plant nutrition. Plant and Soil, 2022, 476, 11-23.	1.8	38
5	The relative contributions of root uptake and remobilization to the loading of Cd and As into rice grains: Implications in simultaneously controlling grain Cd and As accumulation using a segmented water management strategy. Environmental Pollution, 2022, 293, 118497.	3.7	47
6	Soil amendments with ZnSO4 or MnSO4 are effective at reducing Cd accumulation in rice grain: An application of the voltaic cell principle. Environmental Pollution, 2022, 294, 118650.	3.7	11
7	Functional characterization of the methylarseniteâ€inducible arsRM operon from Noviherbaspirillum denitrificans â€‰ HC18. Environmental Microbiology, 2022, , .	1.8	6
8	Glutathione Is Involved in the Reduction of Methylarsenate to Generate Antibiotic Methylarsenite in Enterobacter sp. Strain CZ-1. Applied and Environmental Microbiology, 2022, 88, aem0246721.	1.4	4
9	Elucidating heterogeneous iron biomineralization patterns in a denitrifying As(<scp>iii</scp>)-oxidizing bacterium: implications for arsenic immobilization. Environmental Science: Nano, 2022, 9, 1076-1090.	2.2	5
10	The vacuolar transporter OsNRAMP2 mediates Fe remobilization during germination and affects Cd distribution to rice grain. Plant and Soil, 2022, 476, 79-95.	1.8	12
11	Widespread Occurrence of the Highly Toxic Dimethylated Monothioarsenate (DMMTA) in Rice Globally. Environmental Science & Technology, 2022, 56, 3575-3586.	4.6	27
12	<scp>ArsZ</scp> from <i>Ensifer adhaerens</i>â€‰<scp>ST2</scp> is a novel methylarsenite oxidase. Environmental Microbiology, 2022, 24, 3013-3021.	1.8	6
13	China national food safety standards of cadmium in staple foods: Issues and thinking. Chinese Science Bulletin, 2022, 67, 3252-3260.	0.4	2
14	The Vacuolar Molybdate Transporter OsMOT1;2 Controls Molybdenum Remobilization in Rice. Frontiers in Plant Science, 2022, 13, 863816.	1.7	1
15	Variation in cadmium accumulation and speciation within the same population of the hyperaccumulator Noccaea caerulescens grown in a moderately contaminated soil. Plant and Soil, 2022, 475, 379-394.	1.8	7
16	Significant Nutritional Gaps in Tibetan Adults Living in Agricultural Counties Along Yarlung Zangbo River. Frontiers in Nutrition, 2022, 9, 845026.	1.6	5
17	Prevalent and highly mobile antibiotic resistance genes in commercial organic fertilizers. Environment International, 2022, 162, 107157.	4.8	21
18	Molybdenum: <i>Mo</i>re than an essential element. Journal of Experimental Botany, 2022, 73, 1766-1774.	2.4	25

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19	Exploring Key Soil Parameters Relevant to Arsenic and Cadmium Accumulation in Rice Grain in Southern China. Soil Systems, 2022, 6, 36.	1.0	4
20	Suppression of methanogenesis in paddy soil increases dimethylarsenate accumulation and the incidence of straighthead disease in rice. Soil Biology and Biochemistry, 2022, 169, 108689.	4.2	14
21	Local and Systemic Response to Heterogeneous Sulfate Resupply after Sulfur Deficiency in Rice. International Journal of Molecular Sciences, 2022, 23, 6203.	1.8	3
22	The roles of membrane transporters in arsenic uptake, translocation and detoxification in plants. Critical Reviews in Environmental Science and Technology, 2021, 51, 2449-2484.	6.6	51
23	Producing Cd-safe rice grains in moderately and seriously Cd-contaminated paddy soils. Chemosphere, 2021, 267, 128893.	4.2	25
24	Stable isotope fractionation of cadmium in the soil-rice-human continuum. Science of the Total Environment, 2021, 761, 143262.	3.9	28
25	Reducing cadmium bioavailability and accumulation in vegetable by an alkalizing bacterial strain. Science of the Total Environment, 2021, 758, 143596.	3.9	18
26	Cadmium Inhibits Lateral Root Emergence in Rice by Disrupting OsPIN-Mediated Auxin Distribution and the Protective Effect of OsHMA3. Plant and Cell Physiology, 2021, 62, 166-177.	1.5	21
27	Cadmium speciation and release kinetics in a paddy soil as affected by soil amendments and flooding-draining cycle. Environmental Pollution, 2021, 268, 115944.	3.7	27
28	High-Affinity Sulfate Transporter Sultr1;2 Is a Major Transporter for Cr(VI) Uptake in Plants. Environmental Science & Technology, 2021, 55, 1576-1584.	4.6	41
29	The Voltaic Effect as a Novel Mechanism Controlling the Remobilization of Cadmium in Paddy Soils during Drainage. Environmental Science & Technology, 2021, 55, 1750-1758.	4.6	59
30	Sulfate addition and rising temperature promote arsenic methylation and the formation of methylated thioarsenates in paddy soils. Soil Biology and Biochemistry, 2021, 154, 108129.	4.2	38
31	DNA hypomethylation in tetraploid rice potentiates stress-responsive gene expression for salt tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	44
32	A molecular switch in sulfur metabolism to reduce arsenic and enrich selenium in rice grain. Nature Communications, 2021, 12, 1392.	5.8	48
33	Dynamics of Dimethylated Monothioarsenate (DMMTA) in Paddy Soils and Its Accumulation in Rice Grains. Environmental Science & Technology, 2021, 55, 8665-8674.	4.6	25
34	Free Radicals Produced from the Oxidation of Ferrous Sulfides Promote the Remobilization of Cadmium in Paddy Soils During Drainage. Environmental Science & Technology, 2021, 55, 9845-9853.	4.6	63
35	Food Consumption and Dietary Patterns of Local Adults Living on the Tibetan Plateau: Results from 14 Countries along the Yarlung Tsangpo River. Nutrients, 2021, 13, 2444.	1.7	17
36	Future research needs for environmental science in China. Geography and Sustainability, 2021, , .	1.9	3

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37	Two-year and multi-site field trials to evaluate soil amendments for controlling cadmium accumulation in rice grain. Environmental Pollution, 2021, 289, 117918.	3.7	20
38	Phylogenomics reveals the basis of adaptation of Pseudorhizobium species to extreme environments and supports a taxonomic revision of the genus. Systematic and Applied Microbiology, 2021, 44, 126165.	1.2	33
39	Univariate and Multivariate QTL Analyses Reveal Covariance Among Mineral Elements in the Rice Ionome. Frontiers in Genetics, 2021, 12, 638555.	1.1	10
40	Targeted expression of the arsenate reductase HAC1 identifies cell type specificity of arsenic metabolism and transport in plant roots. Journal of Experimental Botany, 2021, 72, 415-425.	2.4	12
41	<scp>ArsV</scp> and <scp>ArsW</scp> provide synergistic resistance to the antibiotic methylarsenite. Environmental Microbiology, 2021, 23, 7550-7562.	1.8	11
42	Demethylation of the Antibiotic Methylarsenite is Coupled to Denitrification in Anoxic Paddy Soil. Environmental Science & Technology, 2021, 55, 15484-15494.	4.6	13
43	Natural variation in the promoter of <i>OsHMA3</i> contributes to differential grain cadmium accumulation between <i>Indica</i> and <i>Japonica</i> rice. Journal of Integrative Plant Biology, 2020, 62, 314-329.	4.1	72
44	Protein phosphatase 2A alleviates cadmium toxicity by modulating ethylene production in <scp><i>Arabidopsis thaliana</i></scp>. Plant, Cell and Environment, 2020, 43, 1008-1022.	2.8	13
45	Binding and adsorption energy of Cd in soils and its environmental implication for Cd bioavailability. Soil Science Society of America Journal, 2020, 84, 472-482.	1.2	10
46	<i>N</i> -Hydroxyarylamine <i>O</i> -Acetyltransferases Catalyze Acetylation of 3-Amino-4-Hydroxyphenylarsonic Acid in the 4-Hydroxy-3-Nitrobenzenearsonic Acid Transformation Pathway of <i>Enterobacter</i> sp. Strain CZ-1. Applied and Environmental Microbiology, 2020, 86, .	1.4	9
47	Arsenic and cadmium accumulation in rice and mitigation strategies. Plant and Soil, 2020, 446, 1-21.	1.8	327
48	Genetic mapping of ionomic quantitative trait loci in rice grain and straw reveals OsMOT1;1 as the putative causal gene for a molybdenum QTL qMo8. Molecular Genetics and Genomics, 2020, 295, 391-407.	1.0	20
49	Mutation in <i>OsCADT1</i> enhances cadmium tolerance and enriches selenium in rice grain. New Phytologist, 2020, 226, 838-850.	3.5	45
50	Overexpression of Rice <i>OsHMA3</i> in Wheat Greatly Decreases Cadmium Accumulation in Wheat Grains. Environmental Science & Technology, 2020, 54, 10100-10108.	4.6	72
51	<scp>OsNRAMP1</scp> transporter contributes to cadmium and manganese uptake in rice. Plant, Cell and Environment, 2020, 43, 2476-2491.	2.8	191
52	Breeding for low cadmium barley by introgression of a Sukkula-like transposable element. Nature Food, 2020, 1, 489-499.	6.2	44
53	Chemical Speciation and Distribution of Cadmium in Rice Grain and Implications for Bioavailability to Humans. Environmental Science & Technology, 2020, 54, 12072-12080.	4.6	46
54	Overexpression of the manganese/cadmium transporter OsNRAMP5 reduces cadmium accumulation in rice grain. Journal of Experimental Botany, 2020, 71, 5705-5715.	2.4	75

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55	Microbe mediated immobilization of arsenic in the rice rhizosphere after incorporation of silica impregnated biochar composites. Journal of Hazardous Materials, 2020, 398, 123096.	6.5	46
56	OASTL-A1 functions as a cytosolic cysteine synthase and affects arsenic tolerance in rice. Journal of Experimental Botany, 2020, 71, 3678-3689.	2.4	19
57	Nitrite Accumulation Is Required for Microbial Anaerobic Iron Oxidation, but Not for Arsenite Oxidation, in Two Heterotrophic Denitrifiers. Environmental Science & Technology, 2020, 54, 4036-4045.	4.6	33
58	Dimethylarsinic acid is the causal agent inducing rice straighthead disease. Journal of Experimental Botany, 2020, 71, 5631-5644.	2.4	40
59	The within-field spatial variation in rice grain Cd concentration is determined by soil redox status and pH during grain filling. Environmental Pollution, 2020, 261, 114151.	3.7	55
60	QTL pyramiding for producing nutritious and safe rice grains. Journal of Integrative Plant Biology, 2020, 62, 264-268.	4.1	4
61	Localized Intensification of Arsenic Release within the Emergent Rice Rhizosphere. Environmental Science & Technology, 2020, 54, 3138-3147.	4.6	34
62	Increased arsenic mobilization in the rice rhizosphere is mediated by iron-reducing bacteria. Environmental Pollution, 2020, 263, 114561.	3.7	35
63	Strategies to manage the risk of heavy metal(loid) contamination in agricultural soils. Frontiers of Agricultural Science and Engineering, 2020, 7, 333.	0.9	11
64	Variation in the BrHMA3 coding region controls natural variation in cadmium accumulation in Brassica rapa vegetables. Journal of Experimental Botany, 2019, 70, 5865-5878.	2.4	36
65	Special section on soil and human health â€" An editorial. European Journal of Soil Science, 2019, 70, 859-861.	1.8	2
66	Dynamics of metal(loid) resistance genes driven by succession of bacterial community during manure composting. Environmental Pollution, 2019, 255, 113276.	3.7	16
67	Water management impacts the soil microbial communities and total arsenic and methylated arsenicals in rice grains. Environmental Pollution, 2019, 247, 736-744.	3.7	68
68	Biotransformation of arsenic-containing roxarsone by an aerobic soil bacterium Enterobacter sp. CZ-1. Environmental Pollution, 2019, 247, 482-487.	3.7	28
69	Sulfate-reducing bacteria and methanogens are involved in arsenic methylation and demethylation in paddy soils. ISME Journal, 2019, 13, 2523-2535.	4.4	122
70	Microbial sulfate reduction decreases arsenic mobilization in flooded paddy soils with high potential for microbial Fe reduction. Environmental Pollution, 2019, 251, 952-960.	3.7	61
71	Engineering Crops without Genome Integration Using Nanotechnology. Trends in Plant Science, 2019, 24, 574-577.	4.3	48
72	Epigenetic regulation of sulfur homeostasis in plants. Journal of Experimental Botany, 2019, 70, 4171-4182.	2.4	28

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73	Cadmium contamination in agricultural soils of China and the impact on food safety. Environmental Pollution, 2019, 249, 1038-1048.	3.7	395
74	Producing cadmium-free Indica rice by overexpressing OsHMA3. Environment International, 2019, 126, 619-626.	4.8	110
75	The C-type ATP-Binding Cassette Transporter OsABCC7 Is Involved in the Root-to-Shoot Translocation of Arsenic in Rice. Plant and Cell Physiology, 2019, 60, 1525-1535.	1.5	48
76	Map-based cloning of a new total loss-of-function allele of OsHMA3 causes high cadmium accumulation in rice grain. Journal of Experimental Botany, 2019, 70, 2857-2871.	2.4	57
77	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.	4.6	236
78	Natural variation in a molybdate transporter controls grain molybdenum concentration in rice. New Phytologist, 2019, 221, 1983-1997.	3.5	44
79	SpHMA1 is a chloroplast cadmium exporter protecting photochemical reactions in the Cd hyperaccumulator <scp><i>Sedum plumbizincicola</i></scp>. Plant, Cell and Environment, 2019, 42, 1112-1124.	2.8	49
80	Minimizing experimental artefacts in synchrotron-based X-ray analyses of Fe speciation in tissues of rice plants. Journal of Synchrotron Radiation, 2019, 26, 1272-1279.	1.0	7
81	Cadmium Phytoremediation: Call Rice CAL1. Molecular Plant, 2018, 11, 640-642.	3.9	31
82	Soil and human health. European Journal of Soil Science, 2018, 69, 158-158.	1.8	2
83	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.	3.7	118
84	Geographical variations of cadmium and arsenic concentrations and arsenic speciation in Chinese rice. Environmental Pollution, 2018, 238, 482-490.	3.7	148
85	Risk of Silver Transfer from Soil to the Food Chain Is Low after Long-Term (20 Years) Field Applications of Sewage Sludge. Environmental Science & Technology, 2018, 52, 4901-4909.	4.6	39
86	Dissecting the components controlling rootâ€toâ€shoot arsenic translocation in <i>Arabidopsis thaliana</i>. New Phytologist, 2018, 217, 206-218.	3.5	56
87	Antibiotics and antibiotic resistance from animal manures to soil: a review. European Journal of Soil Science, 2018, 69, 181-195.	1.8	291
88	Arsenic methylation by a novel ArsM As(III) <i>S</i>â€adenosylmethionine methyltransferase that requires only two conserved cysteine residues. Molecular Microbiology, 2018, 107, 265-276.	1.2	42
89	Nramp5 expression and functionality likely explain higher cadmium uptake in rice than in wheat and maize. Plant and Soil, 2018, 433, 377-389.	1.8	111
90	ARSENATE INDUCED CHLOROSIS 1/ TRANSLOCON AT THE OUTER ENVOLOPE MEMBRANE OF CHLOROPLASTS 132 Protects Chloroplasts from Arsenic Toxicity. Plant Physiology, 2018, 178, 1568-1583.	2.3	18

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91	Genome-Wide Association Studies Reveal the Genetic Basis of Ionomic Variation in Rice. Plant Cell, 2018, 30, 2720-2740.	3.1	164
92	Engineered silver nanoparticles in terrestrial environments: a meta-analysis shows that the overall environmental risk is small. Environmental Science: Nano, 2018, 5, 2531-2544.	2.2	25
93	OsWRKY28 Regulates Phosphate and Arsenate Accumulation, Root System Architecture and Fertility in Rice. Frontiers in Plant Science, 2018, 9, 1330.	1.7	61
94	Effective methods to reduce cadmium accumulation in rice grain. Chemosphere, 2018, 207, 699-707.	4.2	170
95	Long-term effects of manure and chemical fertilizers on soil antibiotic resistome. Soil Biology and Biochemistry, 2018, 122, 111-119.	4.2	98
96	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.	3.9	231
97	OsATX1 Interacts with Heavy Metal P1B-Type ATPases and Affects Copper Transport and Distribution. Plant Physiology, 2018, 178, 329-344.	2.3	96
98	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.	3.5	122
99	Particle-specific toxicity and bioavailability of cerium oxide (CeO2) nanoparticles to Arabidopsis thaliana. Journal of Hazardous Materials, 2017, 322, 292-300.	6.5	90
100	Mineral Availability as a Key Regulator of Soil Carbon Storage. Environmental Science & Technology, 2017, 51, 4960-4969.	4.6	167
101	OsHAC4 is critical for arsenate tolerance and regulates arsenic accumulation in rice. New Phytologist, 2017, 215, 1090-1101.	3.5	156
102	OsPTR7 (OsNPF8.1), a Putative Peptide Transporter in Rice, is Involved in Dimethylarsenate Accumulation in Rice Grain. Plant and Cell Physiology, 2017, 58, 904-913.	1.5	65
103	Predicting Cadmium Safety Thresholds in Soils Based on Cadmium Uptake by Chinese Cabbage. Pedosphere, 2017, 27, 475-481.	2.1	33
104	Soil Environment and Pollution Remediation. Pedosphere, 2017, 27, 387-388.	2.1	9
105	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.	2.4	84
106	Heavy metal ATPase 3 (HMA3) confers cadmium hypertolerance on the cadmium/zinc hyperaccumulator <i>Sedum plumbizincicola</i>. New Phytologist, 2017, 215, 687-698.	3.5	191
107	Historical trends in iodine and selenium in soil and herbage at the Park Grass Experiment, Rothamsted Research, UK. Soil Use and Management, 2017, 33, 252-262.	2.6	15
108	Nitrate Stimulates Anaerobic Microbial Arsenite Oxidation in Paddy Soils. Environmental Science & Technology, 2017, 51, 4377-4386.	4.6	95

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109	Genotypic and Environmental Variations in Grain Cadmium and Arsenic Concentrations Among a Panel of High Yielding Rice Cultivars. Rice, 2017, 10, 9.	1.7	124
110	Arsenic methylation by a genetically engineered Rhizobium-legume symbiont. Plant and Soil, 2017, 416, 259-269.	1.8	48
111	Heavy metal concentrations and arsenic speciation in animal manure composts in China. Waste Management, 2017, 64, 333-339.	3.7	158
112	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. Environmental Science: Nano, 2017, 4, 448-460.	2.2	85
113	Determining the fate of selenium in wheat biofortification: an isotopically labelled field trial study. Plant and Soil, 2017, 420, 61-77.	1.8	24
114	Control of arsenic mobilization in paddy soils by manganese and iron oxides. Environmental Pollution, 2017, 231, 37-47.	3.7	145
115	Microbial Processes Mediating the Evolution of Methylarsine Gases from Dimethylarsenate in Paddy Soils. Environmental Science & Technology, 2017, 51, 13190-13198.	4.6	12
116	Allelic Variation of NtNramp5 Associated with Cultivar Variation in Cadmium Accumulation in Tobacco. Plant and Cell Physiology, 2017, 58, 1583-1593.	1.5	41
117	Bacterial community and arsenic functional genes diversity in arsenic contaminated soils from different geographic locations. PLoS ONE, 2017, 12, e0176696.	1.1	40
118	Arsenicibacter rosenii gen. nov., sp. nov., an efficient arsenic methylating and volatilizing bacterium isolated from an arsenic-contaminated paddy soil. International Journal of Systematic and Evolutionary Microbiology, 2017, 67, 3186-3191.	0.8	11
119	A novel pathway of arsenate detoxification. Molecular Microbiology, 2016, 100, 928-930.	1.2	21
120	OsCLT1, a CRTâ€like transporter 1, is required for glutathione homeostasis and arsenic tolerance in rice. New Phytologist, 2016, 211, 658-670.	3.5	75
121	Arsenic Methylation in <i>Arabidopsis thaliana</i> Expressing an Algal Arsenite Methyltransferase Gene Increases Arsenic Phytotoxicity. Journal of Agricultural and Food Chemistry, 2016, 64, 2674-2681.	2.4	39
122	Nanotechnology: A New Opportunity in Plant Sciences. Trends in Plant Science, 2016, 21, 699-712.	4.3	690
123	The role of OsPT8 in arsenate uptake and varietal difference in arsenate tolerance in rice. Journal of Experimental Botany, 2016, 67, 6051-6059.	2.4	158
124	OsHAC1;1 and OsHAC1;2 Function as Arsenate Reductases and Regulate Arsenic Accumulation. Plant Physiology, 2016, 172, 1708-1719.	2.3	200
125	Long-Term Impact of Field Applications of Sewage Sludge on Soil Antibiotic Resistome. Environmental Science & Technology, 2016, 50, 12602-12611.	4.6	97
126	Isolation and Characterization of an Aluminum-resistant Mutant in Rice. Rice, 2016, 9, 60.	1.7	15

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127	Changes in antibiotic concentrations and antibiotic resistome during commercial composting of animal manures. Environmental Pollution, 2016, 219, 182-190.	3.7	166
128	Efficient Arsenic Methylation and Volatilization Mediated by a Novel Bacterium from an Arsenic-Contaminated Paddy Soil. Environmental Science & Technology, 2016, 50, 6389-6396.	4.6	86
129	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.	2.8	168
130	Aluminium alleviates fluoride toxicity in tea (Camellia sinensis). Plant and Soil, 2016, 402, 179-190.	1.8	42
131	The shift of the microbial community in activated sludge with calcium treatment and its implication to sludge settleability. Bioresource Technology, 2016, 207, 11-18.	4.8	46
132	Environmental factors influencing aluminium accumulation in tea (Camellia sinensis L.). Plant and Soil, 2016, 400, 223-230.	1.8	16
133	Phytotoxicity and detoxification mechanism differ among inorganic and methylated arsenic species in Arabidopsis thaliana. Plant and Soil, 2016, 401, 243-257.	1.8	47
134	Concentrations of metals and metalloids in soils that have the potential to lead to exceedance of maximum limit concentrations of contaminants in food and feed. Soil Use and Management, 2015, 31, 34-45.	2.6	21
135	Diversity and Abundance of Arsenic Biotransformation Genes in Paddy Soils from Southern China. Environmental Science & Technology, 2015, 49, 4138-4146.	4.6	195
136	Distribution of the stable isotopes 57Fe and 68Zn in grain tissues of various wheat lines differing in their phytate content. Plant and Soil, 2015, 396, 73-83.	1.8	22
137	The role of nodes in arsenic storage and distribution in rice. Journal of Experimental Botany, 2015, 66, 3717-3724.	2.4	99
138	Genetically Engineering Bacillus subtilis with a Heat-Resistant Arsenite Methyltransferase for Bioremediation of Arsenic-Contaminated Organic Waste. Applied and Environmental Microbiology, 2015, 81, 6718-6724.	1.4	68
139	Iron and zinc isotope fractionation during uptake and translocation in rice (Oryza sativa) grown in oxic and anoxic soils. Comptes Rendus - Geoscience, 2015, 347, 397-404.	0.4	37
140	Anaerobic Arsenite Oxidation by an Autotrophic Arsenite-Oxidizing Bacterium from an Arsenic-Contaminated Paddy Soil. Environmental Science & Technology, 2015, 49, 5956-5964.	4.6	121
141	Genome-wide transcriptomic and phylogenetic analyses reveal distinct aluminum-tolerance mechanisms in the aluminum-accumulating species buckwheat (Fagopyrum tataricum). BMC Plant Biology, 2015, 15, 16.	1.6	48
142	Arsenic Methylation and Volatilization by Arsenite <i>S</i> -Adenosylmethionine Methyltransferase in Pseudomonas alcaligenes NBRC14159. Applied and Environmental Microbiology, 2015, 81, 2852-2860.	1.4	84
143	Accumulation and phytotoxicity of perfluorooctanoic acid in the model plant species Arabidopsis thaliana. Environmental Pollution, 2015, 206, 560-566.	3.7	52
144	Soil Contamination in China: Current Status and Mitigation Strategies. Environmental Science & Technology, 2015, 49, 750-759.	4.6	1,488

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145	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.	1.8	79
146	Soil pollution and soil organisms: an overview of research progress and perspectives. Acta Ecologica Sinica, 2015, 35, .	0.0	1
147	Genome-wide Association Mapping Identifies a New Arsenate Reductase Enzyme Critical for Limiting Arsenic Accumulation in Plants. PLoS Biology, 2014, 12, e1002009.	2.6	227
148	Genome Wide Association Mapping of Grain Arsenic, Copper, Molybdenum and Zinc in Rice (Oryza) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.1	228
149	OsNRAMP5 contributes to manganese translocation and distribution in rice shoots. Journal of Experimental Botany, 2014, 65, 4849-4861.	2.4	211
150	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.	3.5	157
151	Silicon has opposite effects on the accumulation of inorganic and methylated arsenic species in rice. Plant and Soil, 2014, 376, 423-431.	1.8	73
152	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
153	Imaging element distribution and speciation in plant cells. Trends in Plant Science, 2014, 19, 183-192.	4.3	138
154	Earth Abides Arsenic Biotransformations. Annual Review of Earth and Planetary Sciences, 2014, 42, 443-467.	4.6	423
155	Iron Bioavailability in Two Commercial Cultivars of Wheat: Comparison between Wholegrain and White Flour and the Effects of Nicotianamine and 2â€²-Deoxymugineic Acid on Iron Uptake into Caco-2 Cells. Journal of Agricultural and Food Chemistry, 2014, 62, 10320-10325.	2.4	60
156	Impact of agronomic practices on arsenic accumulation and speciation in rice grain. Environmental Pollution, 2014, 194, 217-223.	3.7	104
157	Distribution and Speciation of Iron and Zinc in Grain of Two Wheat Genotypes. Journal of Agricultural and Food Chemistry, 2014, 62, 708-716.	2.4	70
158	Effects of Nitrogen on the Distribution and Chemical Speciation of Iron and Zinc in Pearling Fractions of Wheat Grain. Journal of Agricultural and Food Chemistry, 2014, 62, 4738-4746.	2.4	50
159	Understanding Elemental Uptake in Plants Using High Resolution SIMS and Complementary Techniques. Microscopy and Microanalysis, 2014, 20, 1316-1317.	0.2	0
160	High resolution SIMS analysis of arsenic in rice. Surface and Interface Analysis, 2013, 45, 309-311.	0.8	12
161	Use of Synchrotron-Based Techniques to Elucidate Metal Uptake and Metabolism in Plants. Advances in Agronomy, 2013, , 1-82.	2.4	70
162	Methylated Arsenic Species in Rice: Geographical Variation, Origin, and Uptake Mechanisms. Environmental Science & Technology, 2013, 47, 3957-3966.	4.6	276

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163	Assessing the contributions of lateral roots to element uptake in rice using an auxin-related lateral root mutant. Plant and Soil, 2013, 372, 125-136.	1.8	26
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165	Historical arsenic contamination of soil due to long-term phosphate fertiliser applications. Environmental Pollution, 2013, 180, 259-264.	3.7	59
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