Steve P Mcgrath

List of Publications by Year
in descending order

361 papers	46,312 citations	1296 112 h-index	2584 201 g-index
371 all docs	371 docs citations	371 times ranked	25249 citing authors

#	Article	IF	Citations
1	Revisiting strategies to incorporate gender-responsiveness into maize breeding in southern Africa. Outlook on Agriculture, 2022, 51, 178-186.	1.8	8
2	Portable X-ray fluorescence (pXRF) calibration for analysis of nutrient concentrations and trace element contaminants in fertilisers. PLoS ONE, 2022, 17, e0262460.	1.1	9
3	Potential Coâ€benefits and tradeâ€offs between improved soil management, climate change mitigation and agriâ€food productivity. Food and Energy Security, 2022, 11, .	2.0	6
4	Changes in organic carbon to clay ratios in different soils and land uses in England and Wales over time. Scientific Reports, 2022, 12, 5162.	1.6	13
5	Soil and landscape factors influence geospatial variation in maize grain zinc concentration in Malawi. Scientific Reports, 2022, 12, 7986.	1.6	10
6	The effect of soil organic matter on long-term availability of phosphorus in soil: Evaluation in a biological P mining experiment. Geoderma, 2022, 423, 115965.	2.3	4
7	What is a good level of soil organic matter? An index based on organic carbon to clay ratio. European Journal of Soil Science, 2021, 72, 2493-2503.	1.8	55
8	Dynamics of soil phosphorus measured by ammonium lactate extraction as a function of the soil phosphorus balance and soil properties. Geoderma, 2021, 385, 114855.	2.3	3
9	A comparison of soil texture measurements using mid-infrared spectroscopy (MIRS) and laser diffraction analysis (LDA) in diverse soils. Scientific Reports, 2021, 11, 16.	1.6	20
10	Plant Available Zinc Is Influenced by Landscape Position in the Amhara Region, Ethiopia. Plants, 2021, 10, 254.	1.6	11
11	African soil properties and nutrients mapped at 30Âm spatial resolution using two-scale ensemble machine learning. Scientific Reports, 2021, 11, 6130.	1.6	103
12	Liming impacts barley yield over a wide concentration range of soil exchangeable cations. Nutrient Cycling in Agroecosystems, 2021, 120, 131-144.	1.1	7
13	The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. Nature, 2021, 594, 71-76.	13.7	104
14	The grain mineral composition of barley, oat and wheat on soils with pH and soil phosphorus gradients. European Journal of Agronomy, 2021, 126, 126281.	1.9	18
15	The effect of soil properties on zinc lability and solubility in soils of Ethiopia â€" an isotopic dilution study. Soil, 2021, 7, 255-268.	2.2	12
16	Continental-scale controls on soil organic carbon across sub-Saharan Africa. Soil, 2021, 7, 305-332.	2.2	30
17	Plastics in biosolids from 1950 to 2016: A function of global plastic production and consumption. Water Research, 2021, 201, 117367.	5.3	77
18	Investigation of the soil properties that affect Olsen P critical values in different soil types and impact on P fertiliser recommendations. European Journal of Soil Science, 2021, 72, 1802-1816.	1.8	12

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19	On pedagogy of a Soil Science Centre for Doctoral Training. European Journal of Soil Science, 2021, 72, 2320-2329.	1.8	1
20	The Mineral Composition of Wild-Type and Cultivated Varieties of Pasture Species. Agronomy, 2020, 10, 1463.	1.3	12
21	Century long fertilization reduces stochasticity controlling grassland microbial community succession. Soil Biology and Biochemistry, 2020, 151, 108023.	4.2	60
22	Assessing the evolution of wheat grain traits during the last 166Âyears using archived samples. Scientific Reports, 2020, 10, 21828.	1.6	12
23	Spatial prediction of the concentration of selenium (Se) in grain across part of Amhara Region, Ethiopia. Science of the Total Environment, 2020, 733, 139231.	3.9	24
24	Arguments surrounding the essentiality of boron to vascular plants. New Phytologist, 2020, 226, 1225-1227.	3.5	6
25	Comprehensive nutrient analysis in agricultural organic amendments through non-destructive assays using machine learning. PLoS ONE, 2020, 15, e0242821.	1.1	6
26	Simulation of Phosphorus Chemistry, Uptake and Utilisation by Winter Wheat. Plants, 2019, 8, 404.	1.6	11
27	Plantâ€"microbe networks in soil are weakened by centuryâ€long use of inorganic fertilizers. Microbial Biotechnology, 2019, 12, 1464-1475.	2.0	77
28	Yield responses of arable crops to liming â€" An evaluation of relationships between yields and soil pH from a long-term liming experiment. European Journal of Agronomy, 2019, 105, 176-188.	1.9	80
29	The Effect of Different Organic Fertilizers on Yield and Soil and Crop Nutrient Concentrations. Agronomy, 2019, 9, 776.	1.3	64
30	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
31	Long-term Effects of Biosolids on Soil Quality and Fertility. Soil Science, 2018, 183, 89-98.	0.9	19
32	Effective methods to reduce cadmium accumulation in rice grain. Chemosphere, 2018, 207, 699-707.	4.2	170
33	Advancing the Understanding of Environmental Transformations, Bioavailability and Effects of Nanomaterials, an International US Environmental Protection Agencyâ€"UK Environmental Nanoscience Initiative Joint Program. Journal of Environmental Protection, 2018, 09, 385-404.	0.3	5
34	Selenium deficiency risk predicted to increase under future climate change. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2848-2853.	3.3	260
35	Mineral Availability as a Key Regulator of Soil Carbon Storage. Environmental Science & Technology, 2017, 51, 4960-4969.	4.6	167
36	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

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37	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
38	A comparison of soil tests for available phosphorus in longâ€term field experiments in Europe. European Journal of Soil Science, 2017, 68, 873-885.	1.8	71
39	Determining the fate of selenium in wheat biofortification: an isotopically labelled field trial study. Plant and Soil, 2017, 420, 61-77.	1.8	24
40	Phosphate stable oxygen isotope variability within a temperate agricultural soil. Geoderma, 2017, 285, 64-75.	2.3	29
41	Longâ€term Impact of Sewage Sludge Application on <i>Rhizobium leguminosarum</i> biovar <i>trifolii</i>: An Evaluation Using Metaâ€Analysis. Journal of Environmental Quality, 2016, 45, 1572-1587.	1.0	4
42	Derivation of ecological standards for risk assessment of molybdate in soil. Environmental Chemistry, 2016, 13, 168.	0.7	11
43	Morphological responses of wheat (<i>Triticum aestivum</i>L.) roots to phosphorus supply in two contrasting soils. Journal of Agricultural Science, 2016, 154, 98-108.	0.6	25
44	Population collapse of Lumbricus terrestris in conventional arable cultivations and response to straw applications. Applied Soil Ecology, 2016, 108, 72-75.	2.1	17
45	Long-term impact of sewage sludge application on soil microbial biomass: An evaluation using meta-analysis. Environmental Pollution, 2016, 219, 1021-1035.	3.7	52
46	Long-Term Impact of Field Applications of Sewage Sludge on Soil Antibiotic Resistome. Environmental Science & Technology, 2016, 50, 12602-12611.	4.6	97
47	Nanoparticles within WWTP sludges have minimal impact on leachate quality and soil microbial community structure and function. Environmental Pollution, 2016, 211, 399-405.	3.7	61
48	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
49	A review of the impacts of degradation threats on soil properties in the <scp>UK</scp>. Soil Use and Management, 2015, 31, 1-15.	2.6	64
50	Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. Environmental Pollution, 2015, 205, 78-86.	3.7	41
51	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
52	Monte Carlo simulations of the transformation and removal of Ag, TiO2, and ZnO nanoparticles in wastewater treatment and land application of biosolids. Science of the Total Environment, 2015, 511, 535-543.	3.9	36
53	The role of nodes in arsenic storage and distribution in rice. Journal of Experimental Botany, 2015, 66, 3717-3724.	2.4	99
54	Nanomaterials in Biosolids Inhibit Nodulation, Shift Microbial Community Composition, and Result in Increased Metal Uptake Relative to Bulk/Dissolved Metals. Environmental Science & Technology, 2015, 49, 8751-8758.	4.6	90

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55	Over 150ÂYears of Long-Term Fertilization Alters Spatial Scaling of Microbial Biodiversity. MBio, 2015, 6, .	1.8	57
56	Soil Contamination in China: Current Status and Mitigation Strategies. Environmental Science & Technology, 2015, 49, 750-759.	4.6	1,488
57	Soil pH Determines Microbial Diversity and Composition in the Park Grass Experiment. Microbial Ecology, 2015, 69, 395-406.	1.4	544
58	Towards bioavailability-based soil criteria: past, present and future perspectives. Environmental Science and Pollution Research, 2015, 22, 8779-8785.	2.7	26
59	Genome Wide Association Mapping of Grain Arsenic, Copper, Molybdenum and Zinc in Rice (Oryza) Tj ETQq1 1 0.784314 rgBT /Overl	1.1	228
60	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
61	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
62	Agronomic selenium biofortification in Triticum durum under Mediterranean conditions: From grain to cooked pasta. Food Chemistry, 2014, 146, 378-384.	4.2	88
63	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
64	Selenium accumulation and speciation in biofortified chickpea (<i>Cicer arietinum</i> L.) under Mediterranean conditions. Journal of the Science of Food and Agriculture, 2014, 94, 1101-1106.	1.7	60
65	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
66	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
67	Selenium Speciation in Malt, Wort, and Beer Made from Selenium-Biofortified Two-Rowed Barley Grain. Journal of Agricultural and Food Chemistry, 2014, 62, 5948-5953.	2.4	33
68	High resolution SIMS analysis of arsenic in rice. Surface and Interface Analysis, 2013, 45, 309-311.	0.8	12
69	Modelling the effects of copper on soil organisms and processes using the free ion approach: Towards a multi-species toxicity model. Environmental Pollution, 2013, 178, 244-253.	3.7	34
70	Ca. Nitrososphaera and Bradyrhizobium are inversely correlated and related to agricultural practices in long-term field experiments. Frontiers in Microbiology, 2013, 4, 104.	1.5	86
71	Variation in Rice Cadmium Related to Human Exposure. Environmental Science & Technology, 2013, 47, 5613-5618.	4.6	365
72	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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73	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.	4.6	166
74	Evidence for effects of manufactured nanomaterials on crops is inconclusive. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3336-E3336.	3.3	16
75	Selenium speciation in soil extracts using LC-ICP-MS. International Journal of Environmental Analytical Chemistry, 2012, 92, 222-236.	1.8	32
76	Biofortification of zinc in wheat grain by the application of sewage sludge. Plant and Soil, 2012, 361, 97-108.	1.8	19
77	Grain and shoot zinc accumulation in winter wheat affected by nitrogen management. Plant and Soil, 2012, 361, 153-163.	1.8	103
78	Contrasting effects of dwarfing alleles and nitrogen availability on mineral concentrations in wheat grain. Plant and Soil, 2012, 360, 93-107.	1.8	25
79	Knocking Out ACR2 Does Not Affect Arsenic Redox Status in Arabidopsis thaliana: Implications for As Detoxification and Accumulation in Plants. PLoS ONE, 2012, 7, e42408.	1.1	34
80	Methylated arsenic species in plants originate from soil microorganisms. New Phytologist, 2012, 193, 665-672.	3.5	312
81	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
82	Effect of long-term equilibration on the toxicity of molybdenum to soil organisms. Environmental Pollution, 2012, 162, 1-7.	3.7	37
83	Phytochelatins play a key role in arsenic accumulation and tolerance in the aquatic macrophyte Wolffia globosa. Environmental Pollution, 2012, 165, 18-24.	3.7	47
84	A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. Environmental Pollution, 2012, 166, 57-64.	3.7	52
85	Localisation of iron in wheat grain using high resolution secondary ion mass spectrometry. Journal of Cereal Science, 2012, 55, 183-187.	1.8	59
86	Arsenic translocation in rice investigated using radioactive 73As tracer. Plant and Soil, 2012, 350, 413-420.	1.8	66
87	Long-term removal of wheat straw decreases soil amorphous silica at Broadbalk, Rothamsted. Plant and Soil, 2012, 352, 173-184.	1.8	99
88	Selenium Hyperaccumulator Plants Stanleya pinnata and Astragalus bisulcatus Are Colonized by Se-Resistant, Se-Excluding Wasp and Beetle Seed Herbivores. PLoS ONE, 2012, 7, e50516.	1.1	37
89	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
90	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.	2.3	122

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91	Evaluation of an electrostatic toxicity model for predicting Ni2+ toxicity to barley root elongation in hydroponic cultures and in soils. New Phytologist, 2011, 192, 414-427.	3.5	23
92	Long-term impacts of zinc and copper enriched sewage sludge additions on bacterial, archaeal and fungal communities in arable and grassland soils. Soil Biology and Biochemistry, 2011, 43, 932-941.	4.2	65
93	The dynamics of arsenic in four paddy fields in the Bengal delta. Environmental Pollution, 2011, 159, 947-953.	3.7	95
94	Phytoremediation of arsenic contaminated paddy soils with Pteris vittata markedly reduces arsenic uptake by rice. Environmental Pollution, 2011, 159, 3739-3743.	3.7	98
95	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.	4.2	110
96	Investigating the Contribution of the Phosphate Transport Pathway to Arsenic Accumulation in Rice Â. Plant Physiology, 2011, 157, 498-508.	2.3	299
97	Development of a Real-Time PCR Assay for Detection and Quantification of Rhizobium leguminosarum Bacteria and Discrimination between Different Biovars in Zinc-Contaminated Soil. Applied and Environmental Microbiology, 2011, 77, 4626-4633.	1.4	24
98	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
99	Rice is more efficient in arsenite uptake and translocation than wheat and barley. Plant and Soil, 2010, 328, 27-34.	1.8	277
100	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.	1.8	84
101	Impact of sulphur fertilisation on crop response to selenium fertilisation. Plant and Soil, 2010, 332, 31-40.	1.8	70
102	Selenium biofortification of high-yielding winter wheat (Triticum aestivum L.) by liquid or granular Se fertilisation. Plant and Soil, 2010, 332, 5-18.	1.8	242
103	Impacts of sulphur nutrition on selenium and molybdenum concentrations in wheat grain. Journal of Cereal Science, 2010, 52, 111-113.	1.8	26
104	Relative impact of soil, metal source and metal concentration on bacterial community structure and community tolerance. Soil Biology and Biochemistry, 2010, 42, 1408-1417.	4.2	19
105	Predicting molybdenum toxicity to higher plants: Influence of soil properties. Environmental Pollution, 2010, 158, 3095-3102.	3.7	61
106	Predicting molybdenum toxicity to higher plants: Estimation of toxicity threshold values. Environmental Pollution, 2010, 158, 3085-3094.	3.7	60
107	The role of the rice aquaporin Lsi1 in arsenite efflux from roots. New Phytologist, 2010, 186, 392-399.	3.5	196
108	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.	2.3	151

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109	Complexation of Arsenite with Phytochelatins Reduces Arsenite Efflux and Translocation from Roots to Shoots in Arabidopsis. Plant Physiology, 2010, 152, 2211-2221.	2.3	206
110	Arsenic Speciation in Phloem and Xylem Exudates of Castor Bean. Plant Physiology, 2010, 154, 1505-1513.	2.3	104
111	Molecular Mechanisms of Selenium Tolerance and Hyperaccumulation in <i>Stanleya pinnata</i>. Plant Physiology, 2010, 153, 1630-1652.	2.3	210
112	Accumulation, Distribution, and Speciation of Arsenic in Wheat Grain. Environmental Science & Technology, 2010, 44, 5464-5468.	4.6	86
113	Arsenic Bioavailability to Rice Is Elevated in Bangladeshi Paddy Soils. Environmental Science & Technology, 2010, 44, 8515-8521.	4.6	139
114	Arsenic Influence on Genetic Variation in Grain Trace-Element Nutrient Content in Bengal Delta Grown Rice. Environmental Science & Technology, 2010, 44, 8284-8288.	4.6	29
115	Arsenic Shoot-Grain Relationships in Field Grown Rice Cultivars. Environmental Science & Technology, 2010, 44, 1471-1477.	4.6	54
116	Selenium Speciation in Soil and Rice: Influence of Water Management and Se Fertilization. Journal of Agricultural and Food Chemistry, 2010, 58, 11837-11843.	2.4	118
117	NanoSIMS analysis of arsenic and selenium in cereal grain. New Phytologist, 2010, 185, 434-445.	3.5	126
118	Biofortification and phytoremediation. Current Opinion in Plant Biology, 2009, 12, 373-380.	3.5	277
119	Heavy metals and soil microbes. Soil Biology and Biochemistry, 2009, 41, 2031-2037.	4.2	373
120	Variation in mineral micronutrient concentrations in grain of wheat lines of diverse origin. Journal of Cereal Science, 2009, 49, 290-295.	1.8	423
121	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.	1.8	131
122	Arsenic uptake and metabolism in plants. New Phytologist, 2009, 181, 777-794.	3.5	973
123	Arsenite efflux is not enhanced in the arsenateâ€tolerant phenotype of <i>Holcus lanatus</i>. New Phytologist, 2009, 183, 340-348.	3.5	53
124	Toxicity of Trace Metals in Soil as Affected by Soil Type and Aging After Contamination: Using Calibrated Bioavailability Models to Set Ecological Soil Standards. Environmental Toxicology and Chemistry, 2009, 28, 1633-1642.	2.2	333
125	Response to the Comment by Van Geen and Duxbury. Environmental Science & Technology, 2009, 43, 3972-3973.	4.6	3
126	Modelling phytoremediation by the hyperaccumulating fern, Pteris vittata, of soils historically contaminated with arsenic. Environmental Pollution, 2009, 157, 1589-1596.	3.7	76

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127	Phytotoxicity and bioavailability of cobalt to plants in a range of soils. Chemosphere, 2009, 75, 979-986.	4.2	127
128	Mitigation of Arsenic Accumulation in Rice with Water Management and Silicon Fertilization. Environmental Science & Technology, 2009, 43, 3778-3783.	4.6	356
129	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
130	Identification of Low Inorganic and Total Grain Arsenic Rice Cultivars from Bangladesh. Environmental Science & Technology, 2009, 43, 6070-6075.	4.6	151
131	The Rice Aquaporin Lsi1 Mediates Uptake of Methylated Arsenic Species Â. Plant Physiology, 2009, 150, 2071-2080.	2.3	350
132	METHODS FOR THE ANALYSIS OF SELENIUM AND OTHER MINERALS. , 2009, , 95-111.		0
133	Low biodegradability of fluoxetine HCl, diazepam and their human metabolites in sewage sludge-amended soil. Journal of Soils and Sediments, 2008, 8, 217-230.	1.5	86
134	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.	1.5	373
135	Selenium uptake, translocation and speciation in wheat supplied with selenate or selenite. New Phytologist, 2008, 178, 92-102.	3.5	593
136	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.	3.5	90
137	Highly efficient xylem transport of arsenite in the arsenic hyperaccumulator <i>Pteris vittata</i>. New Phytologist, 2008, 180, 434-441.	3.5	161
138	Historical changes in the concentrations of selenium in soil and wheat grain from the Broadbalk experiment over the last 160Âyears. Science of the Total Environment, 2008, 389, 532-538.	3.9	44
139	Population size of indigenous Rhizobium leguminosarum biovar trifolii in long-term field experiments with sewage sludge cake, metal-amended liquid sludge or metal salts: Effects of zinc, copper and cadmium. Soil Biology and Biochemistry, 2008, 40, 1670-1680.	4.2	52
140	Growing Rice Aerobically Markedly Decreases Arsenic Accumulation. Environmental Science & Technology, 2008, 42, 5574-5579.	4.6	567
141	Atmospheric SO₂Emissions Since the Late 1800s Change Organic Sulfur Forms in Humic Substance Extracts of Soils. Environmental Science & Technology, 2008, 42, 3550-3555.	4.6	44
142	Speciation of zinc in contaminated soils. Environmental Pollution, 2008, 155, 208-216.	3.7	54
143	Use of Co speciation and soil properties to explain variation in Co toxicity to root growth of barley (Hordeum vulgare L.) in different soils. Environmental Pollution, 2008, 156, 883-890.	3.7	43
144	Does cadmium play a physiological role in the hyperaccumulator Thlaspi caerulescens?. Chemosphere, 2008, 71, 1276-1283.	4.2	84

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145	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.	3.3	1,202
146	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.	2.4	119
147	Phytotoxicity of nickel in a range of European soils: Influence of soil properties, Ni solubility and speciation. Environmental Pollution, 2007, 145, 596-605.	3.7	150
148	Estimates of ambient background concentrations of trace metals in soils for risk assessment. Environmental Pollution, 2007, 148, 221-229.	3.7	80
149	Phytoextraction of cadmium and zinc from arable soils amended with sewage sludge using Thlaspi caerulescens: Development of a predictive model. Environmental Pollution, 2007, 150, 363-372.	3.7	71
150	Cadmium availability to wheat grain in soils treated with sewage sludge or metal salts. Chemosphere, 2007, 66, 1415-1423.	4.2	82
151	Rapid reduction of arsenate in the medium mediated by plant roots. New Phytologist, 2007, 176, 590-599.	3.5	340
152	Effects of soil compaction and irrigation on the concentrations of selenium and arsenic in wheat grains. Science of the Total Environment, 2007, 372, 433-439.	3.9	62
153	Phytoextraction of cadmium and zinc by Salix from soil historically amended with sewage sludge. Plant and Soil, 2007, 290, 157-172.	1.8	71
154	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.	4.6	164
155	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.	4.6	224
156	Effect of soil characteristics on Cd uptake by the hyperaccumulator Thlaspi caerulescens. Environmental Pollution, 2006, 139, 167-175.	3.7	127
157	Field evaluation of Cd and Zn phytoextraction potential by the hyperaccumulators Thlaspi caerulescens and Arabidopsis halleri. Environmental Pollution, 2006, 141, 115-125.	3.7	268
158	Field evaluation of in situ remediation of a heavy metal contaminated soil using lime and red-mud. Environmental Pollution, 2006, 142, 530-539.	3.7	365
159	Initial results from a long-term, multi-site field study of the effects on soil fertility and microbial activity of sludge cakes containing heavy metals. Soil Use and Management, 2006, 22, 11-21.	2.6	50
160	Initial results from long-term field studies at three sites on the effects of heavy metal-amended liquid sludges on soil microbial activity. Soil Use and Management, 2006, 22, 180-187.	2.6	27
161	Cadmium uptake, translocation and tolerance in the hyperaccumulator Arabidopsis halleri. New Phytologist, 2006, 172, 646-654.	3.5	212
162	Synthesis of low molecular weight thiols in response to Cd exposure in Thlaspi caerulescens. Plant, Cell and Environment, 2006, 29, 1422-1429.	2.8	62

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163	SOIL FACTORS CONTROLLING THE EXPRESSION OF COPPER TOXICITY TO PLANTS IN A WIDE RANGE OF EUROPEAN SOILS. Environmental Toxicology and Chemistry, 2006, 25, 726.	2.2	159
164	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.	2.2	83
165	KINETICS OF METAL FIXATION IN SOILS: MEASUREMENT AND MODELING BY ISOTOPIC DILUTION. Environmental Toxicology and Chemistry, 2006, 25, 659.	2.2	39
166	INFLUENCE OF SOIL PROPERTIES AND AGING ON ARSENIC PHYTOTOXICITY. Environmental Toxicology and Chemistry, 2006, 25, 1663.	2.2	80
167	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.	4.2	75
168	Effects of sulphur on yield and malting quality of barley. Journal of Cereal Science, 2006, 43, 369-377.	1.8	45
169	Biofortification of UK food crops with selenium. Proceedings of the Nutrition Society, 2006, 65, 169-181.	0.4	378
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