

Steve P Mcgrath

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

360
papers

38,560
citations

105
h-index

185
g-index

369
ext. papers

42,043
ext. citations

6.6
avg, IF

7.32
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 360 | Portable X-ray fluorescence (pXRF) calibration for analysis of nutrient concentrations and trace element contaminants in fertilisers.. <i>PLoS ONE</i> , 2022 , 17, e0262460 | 3.7 | 0 |
| 359 | Changes in organic carbon to clay ratios in different soils and land uses in England and Wales over time.. <i>Scientific Reports</i> , 2022 , 12, 5162 | 4.9 | 1 |
| 358 | Soil and landscape factors influence geospatial variation in maize grain zinc concentration in Malawi.. <i>Scientific Reports</i> , 2022 , 12, 7986 | 4.9 | 1 |
| 357 | The effect of soil organic matter on long-term availability of phosphorus in soil: Evaluation in a biological P mining experiment. <i>Geoderma</i> , 2022 , 423, 115965 | 6.7 | 0 |
| 356 | African soil properties and nutrients mapped at 30m spatial resolution using two-scale ensemble machine learning. <i>Scientific Reports</i> , 2021 , 11, 6130 | 4.9 | 25 |
| 355 | Liming impacts barley yield over a wide concentration range of soil exchangeable cations. <i>Nutrient Cycling in Agroecosystems</i> , 2021 , 120, 131-144 | 3.3 | 3 |
| 354 | The nutritional quality of cereals varies geospatially in Ethiopia and Malawi. <i>Nature</i> , 2021 , 594, 71-76 | 50.4 | 28 |
| 353 | The grain mineral composition of barley, oat and wheat on soils with pH and soil phosphorus gradients. <i>European Journal of Agronomy</i> , 2021 , 126, 126281 | 5 | 5 |
| 352 | The effect of soil properties on zinc lability and solubility in soils of Ethiopia [an isotopic dilution study. <i>Soil</i> , 2021 , 7, 255-268 | 5.8 | 2 |
| 351 | Continental-scale controls on soil organic carbon across sub-Saharan Africa. <i>Soil</i> , 2021 , 7, 305-332 | 5.8 | 7 |
| 350 | Dynamics of soil phosphorus measured by ammonium lactate extraction as a function of the soil phosphorus balance and soil properties. <i>Geoderma</i> , 2021 , 385, 114855 | 6.7 | 1 |
| 349 | A comparison of soil texture measurements using mid-infrared spectroscopy (MIRS) and laser diffraction analysis (LDA) in diverse soils. <i>Scientific Reports</i> , 2021 , 11, 16 | 4.9 | 7 |
| 348 | Plant Available Zinc Is Influenced by Landscape Position in the Amhara Region, Ethiopia. <i>Plants</i> , 2021 , 10, | 4.5 | 4 |
| 347 | Plastics in biosolids from 1950 to 2016: A function of global plastic production and consumption. <i>Water Research</i> , 2021 , 201, 117367 | 12.5 | 15 |
| 346 | Investigation of the soil properties that affect Olsen P critical values in different soil types and impact on P fertiliser recommendations. <i>European Journal of Soil Science</i> , 2021 , 72, 1802 | 3.4 | 1 |
| 345 | Assessing the evolution of wheat grain traits during the last 166 years using archived samples. <i>Scientific Reports</i> , 2020 , 10, 21828 | 4.9 | 4 |
| 344 | Spatial prediction of the concentration of selenium (Se) in grain across part of Amhara Region, Ethiopia. <i>Science of the Total Environment</i> , 2020 , 733, 139231 | 10.2 | 12 |

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| 343 | Arguments surrounding the essentiality of boron to vascular plants. <i>New Phytologist</i> , 2020 , 226, 1225-1228 | 3.7 | 3 |
| 342 | What is a good level of soil organic matter? An index based on organic carbon to clay ratio. <i>European Journal of Soil Science</i> , 2020 , | 3.4 | 14 |
| 341 | Comprehensive nutrient analysis in agricultural organic amendments through non-destructive assays using machine learning. <i>PLoS ONE</i> , 2020 , 15, e0242821 | 3.7 | 3 |
| 340 | The Mineral Composition of Wild-Type and Cultivated Varieties of Pasture Species. <i>Agronomy</i> , 2020 , 10, 1463 | 3.6 | 2 |
| 339 | Century long fertilization reduces stochasticity controlling grassland microbial community succession. <i>Soil Biology and Biochemistry</i> , 2020 , 151, 108023 | 7.5 | 15 |
| 338 | Plant-microbe networks in soil are weakened by century-long use of inorganic fertilizers. <i>Microbial Biotechnology</i> , 2019 , 12, 1464-1475 | 6.3 | 35 |
| 337 | Yield responses of arable crops to liming - An evaluation of relationships between yields and soil pH from a long-term liming experiment. <i>European Journal of Agronomy</i> , 2019 , 105, 176-188 | 5 | 43 |
| 336 | Simulation of Phosphorus Chemistry, Uptake and Utilisation by Winter Wheat. <i>Plants</i> , 2019 , 8, | 4.5 | 5 |
| 335 | The Effect of Different Organic Fertilizers on Yield and Soil and Crop Nutrient Concentrations. <i>Agronomy</i> , 2019 , 9, 776 | 3.6 | 26 |
| 334 | Risk of Silver Transfer from Soil to the Food Chain Is Low after Long-Term (20 Years) Field Applications of Sewage Sludge. <i>Environmental Science & Technology</i> , 2018 , 52, 4901-4909 | 10.3 | 31 |
| 333 | Advancing the Understanding of Environmental Transformations, Bioavailability and Effects of Nanomaterials, an International US Environmental Protection Agency-UK Environmental Nanoscience Initiative Joint Program. <i>Journal of Environmental Protection</i> , 2018 , 9, 385-404 | 0.6 | 3 |
| 332 | Long-term Effects of Biosolids on Soil Quality and Fertility. <i>Soil Science</i> , 2018 , 183, 89-98 | 0.9 | 11 |
| 331 | Effective methods to reduce cadmium accumulation in rice grain. <i>Chemosphere</i> , 2018 , 207, 699-707 | 8.4 | 105 |
| 330 | Selenium deficiency risk predicted to increase under future climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 2848-2853 | 11.5 | 155 |
| 329 | Mineral Availability as a Key Regulator of Soil Carbon Storage. <i>Environmental Science & Technology</i> , 2017 , 51, 4960-4969 | 10.3 | 111 |
| 328 | The Nodulin 26-like intrinsic membrane protein OsNIP3;2 is involved in arsenite uptake by lateral roots in rice. <i>Journal of Experimental Botany</i> , 2017 , 68, 3007-3016 | 7 | 58 |
| 327 | Historical trends in iodine and selenium in soil and herbage at the Park Grass Experiment, Rothamsted Research, UK. <i>Soil Use and Management</i> , 2017 , 33, 252-262 | 3.1 | 11 |
| 326 | A comparison of soil tests for available phosphorus in long-term field experiments in Europe. <i>European Journal of Soil Science</i> , 2017 , 68, 873-885 | 3.4 | 47 |

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|-----|--|------|-----|
| 325 | Determining the fate of selenium in wheat biofortification: an isotopically labelled field trial study. <i>Plant and Soil</i> , 2017 , 420, 61-77 | 4.2 | 17 |
| 324 | Phosphate stable oxygen isotope variability within a temperate agricultural soil. <i>Geoderma</i> , 2017 , 285, 64-75 | 6.7 | 26 |
| 323 | Long-Term Impact of Field Applications of Sewage Sludge on Soil Antibiotic Resistome. <i>Environmental Science & Technology</i> , 2016 , 50, 12602-12611 | 10.3 | 78 |
| 322 | Nanoparticles within WWTP sludges have minimal impact on leachate quality and soil microbial community structure and function. <i>Environmental Pollution</i> , 2016 , 211, 399-405 | 9.3 | 51 |
| 321 | Long-term Impact of Sewage Sludge Application on biovar : An Evaluation Using Meta-Analysis. <i>Journal of Environmental Quality</i> , 2016 , 45, 1572-1587 | 3.4 | 4 |
| 320 | Derivation of ecological standards for risk assessment of molybdate in soil. <i>Environmental Chemistry</i> , 2016 , 13, 168 | 3.2 | 11 |
| 319 | Morphological responses of wheat (<i>Triticum aestivum</i> L.) roots to phosphorus supply in two contrasting soils. <i>Journal of Agricultural Science</i> , 2016 , 154, 98-108 | 1 | 18 |
| 318 | Population collapse of <i>Lumbricus terrestris</i> in conventional arable cultivations and response to straw applications. <i>Applied Soil Ecology</i> , 2016 , 108, 72-75 | 5 | 9 |
| 317 | Long-term impact of sewage sludge application on soil microbial biomass: An evaluation using meta-analysis. <i>Environmental Pollution</i> , 2016 , 219, 1021-1035 | 9.3 | 35 |
| 316 | The role of nodes in arsenic storage and distribution in rice. <i>Journal of Experimental Botany</i> , 2015 , 66, 3717-24 | 7 | 66 |
| 315 | Nanomaterials in Biosolids Inhibit Nodulation, Shift Microbial Community Composition, and Result in Increased Metal Uptake Relative to Bulk/Dissolved Metals. <i>Environmental Science & Technology</i> , 2015 , 49, 8751-8 | 10.3 | 77 |
| 314 | Over 150 years of long-term fertilization alters spatial scaling of microbial biodiversity. <i>MBio</i> , 2015 , 6, | 7.8 | 32 |
| 313 | Soil contamination in China: current status and mitigation strategies. <i>Environmental Science & Technology</i> , 2015 , 49, 750-9 | 10.3 | 988 |
| 312 | Soil pH determines microbial diversity and composition in the park grass experiment. <i>Microbial Ecology</i> , 2015 , 69, 395-406 | 4.4 | 333 |
| 311 | Towards bioavailability-based soil criteria: past, present and future perspectives. <i>Environmental Science and Pollution Research</i> , 2015 , 22, 8779-85 | 5.1 | 21 |
| 310 | 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. <i>Soil Use and Management</i> , 2015 , 31, 34-45 | 3.1 | 21 |
| 309 | A review of the impacts of degradation threats on soil properties in the UK. <i>Soil Use and Management</i> , 2015 , 31, 1-15 | 3.1 | 45 |
| 308 | Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. <i>Environmental Pollution</i> , 2015 , 205, 78-86 | 9.3 | 38 |

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|-----|--|------|-----|
| 307 | Distribution of the stable isotopes ⁵⁷ Fe and ⁶⁸ Zn in grain tissues of various wheat lines differing in their phytate content. <i>Plant and Soil</i> , 2015 , 396, 73-83 | 4.2 | 10 |
| 306 | Monte Carlo simulations of the transformation and removal of Ag, TiO ₂ , and ZnO nanoparticles in wastewater treatment and land application of biosolids. <i>Science of the Total Environment</i> , 2015 , 511, 535-43 | 10.2 | 29 |
| 305 | Silicon has opposite effects on the accumulation of inorganic and methylated arsenic species in rice. <i>Plant and Soil</i> , 2014 , 376, 423-431 | 4.2 | 54 |
| 304 | Agronomic selenium biofortification in <i>Triticum durum</i> under Mediterranean conditions: from grain to cooked pasta. <i>Food Chemistry</i> , 2014 , 146, 378-84 | 8.5 | 70 |
| 303 | Lead in rice: analysis of baseline lead levels in market and field collected rice grains. <i>Science of the Total Environment</i> , 2014 , 485-486, 428-434 | 10.2 | 53 |
| 302 | Selenium accumulation and speciation in biofortified chickpea (<i>Cicer arietinum</i> L.) under Mediterranean conditions. <i>Journal of the Science of Food and Agriculture</i> , 2014 , 94, 1101-6 | 4.3 | 41 |
| 301 | Distribution and speciation of iron and zinc in grain of two wheat genotypes. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 708-16 | 5.7 | 56 |
| 300 | Effects of nitrogen on the distribution and chemical speciation of iron and zinc in pearling fractions of wheat grain. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 4738-46 | 5.7 | 43 |
| 299 | Selenium speciation in malt, wort, and beer made from selenium-biofortified two-rowed barley grain. <i>Journal of Agricultural and Food Chemistry</i> , 2014 , 62, 5948-53 | 5.7 | 28 |
| 298 | Genome wide association mapping of grain arsenic, copper, molybdenum and zinc in rice (<i>Oryza sativa</i> L.) grown at four international field sites. <i>PLoS ONE</i> , 2014 , 9, e89685 | 3.7 | 132 |
| 297 | Combined NanoSIMS and synchrotron X-ray fluorescence reveal distinct cellular and subcellular distribution patterns of trace elements in rice tissues. <i>New Phytologist</i> , 2014 , 201, 104-115 | 9.8 | 120 |
| 296 | High resolution SIMS analysis of arsenic in rice. <i>Surface and Interface Analysis</i> , 2013 , 45, 309-311 | 1.5 | 12 |
| 295 | Modelling the effects of copper on soil organisms and processes using the free ion approach: towards a multi-species toxicity model. <i>Environmental Pollution</i> , 2013 , 178, 244-53 | 9.3 | 22 |
| 294 | Ca. Nitrososphaera and Bradyrhizobium are inversely correlated and related to agricultural practices in long-term field experiments. <i>Frontiers in Microbiology</i> , 2013 , 4, 104 | 5.7 | 58 |
| 293 | Variation in rice cadmium related to human exposure. <i>Environmental Science & Technology</i> , 2013 , 47, 5613-8 | 10.3 | 274 |
| 292 | Historical arsenic contamination of soil due to long-term phosphate fertiliser applications. <i>Environmental Pollution</i> , 2013 , 180, 259-64 | 9.3 | 43 |
| 291 | Arsenic methylation in soils and its relationship with microbial arsM abundance and diversity, and as speciation in rice. <i>Environmental Science & Technology</i> , 2013 , 47, 7147-54 | 10.3 | 125 |
| 290 | Effect of long-term equilibration on the toxicity of molybdenum to soil organisms. <i>Environmental Pollution</i> , 2012 , 162, 1-7 | 9.3 | 33 |

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| 289 | Phytochelatins play a key role in arsenic accumulation and tolerance in the aquatic macrophyte <i>Wolffia globosa</i> . <i>Environmental Pollution</i> , 2012 , 165, 18-24 | 9.3 | 40 |
| 288 | A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. <i>Environmental Pollution</i> , 2012 , 166, 57-64 | 9.3 | 48 |
| 287 | Localisation of iron in wheat grain using high resolution secondary ion mass spectrometry. <i>Journal of Cereal Science</i> , 2012 , 55, 183-187 | 3.8 | 50 |
| 286 | Arsenic translocation in rice investigated using radioactive ⁷³ As tracer. <i>Plant and Soil</i> , 2012 , 350, 413-420. | 4.2 | 55 |
| 285 | Long-term removal of wheat straw decreases soil amorphous silica at Broadbalk, Rothamsted. <i>Plant and Soil</i> , 2012 , 352, 173-184 | 4.2 | 82 |
| 284 | Selenium speciation in soil extracts using LC-ICP-MS. <i>International Journal of Environmental Analytical Chemistry</i> , 2012 , 92, 222-236 | 1.8 | 24 |
| 283 | Biofortification of zinc in wheat grain by the application of sewage sludge. <i>Plant and Soil</i> , 2012 , 361, 97-108 | 4.2 | 15 |
| 282 | Grain and shoot zinc accumulation in winter wheat affected by nitrogen management. <i>Plant and Soil</i> , 2012 , 361, 153-163 | 4.2 | 70 |
| 281 | Contrasting effects of dwarfing alleles and nitrogen availability on mineral concentrations in wheat grain. <i>Plant and Soil</i> , 2012 , 360, 93-107 | 4.2 | 22 |
| 280 | Knocking out ACR2 does not affect arsenic redox status in <i>Arabidopsis thaliana</i> : implications for as detoxification and accumulation in plants. <i>PLoS ONE</i> , 2012 , 7, e42408 | 3.7 | 32 |
| 279 | Methylated arsenic species in plants originate from soil microorganisms. <i>New Phytologist</i> , 2012 , 193, 665-672 | 9.8 | 253 |
| 278 | Variation in grain arsenic assessed in a diverse panel of rice (<i>Oryza sativa</i>) grown in multiple sites. <i>New Phytologist</i> , 2012 , 193, 650-664 | 9.8 | 108 |
| 277 | Evidence for effects of manufactured nanomaterials on crops is inconclusive. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E3336; author reply E3337 | 11.5 | 16 |
| 276 | Selenium hyperaccumulator plants <i>Stanleya pinnata</i> and <i>Astragalus bisulcatus</i> are colonized by Se-resistant, Se-excluding wasp and beetle seed herbivores. <i>PLoS ONE</i> , 2012 , 7, e50516 | 3.7 | 31 |
| 275 | High-resolution secondary ion mass spectrometry reveals the contrasting subcellular distribution of arsenic and silicon in rice roots. <i>Plant Physiology</i> , 2011 , 156, 913-24 | 6.6 | 109 |
| 274 | Evaluation of an electrostatic toxicity model for predicting Ni(2+) toxicity to barley root elongation in hydroponic cultures and in soils. <i>New Phytologist</i> , 2011 , 192, 414-27 | 9.8 | 20 |
| 273 | Long-term impacts of zinc and copper enriched sewage sludge additions on bacterial, archaeal and fungal communities in arable and grassland soils. <i>Soil Biology and Biochemistry</i> , 2011 , 43, 932-941 | 7.5 | 56 |
| 272 | The dynamics of arsenic in four paddy fields in the Bengal delta. <i>Environmental Pollution</i> , 2011 , 159, 947-53 | 9.3 | 82 |

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| 271 | Phytoremediation of arsenic contaminated paddy soils with <i>Pteris vittata</i> markedly reduces arsenic uptake by rice. <i>Environmental Pollution</i> , 2011 , 159, 3739-43 | 9.3 | 75 |
| 270 | Assessing the labile arsenic pool in contaminated paddy soils by isotopic dilution techniques and simple extractions. <i>Environmental Science & Technology</i> , 2011 , 45, 4262-9 | 10.3 | 61 |
| 269 | Selenium concentration and speciation in biofortified flour and bread: Retention of selenium during grain biofortification, processing and production of Se-enriched food. <i>Food Chemistry</i> , 2011 , 126, 1771-8 | 8.5 | 88 |
| 268 | Investigating the contribution of the phosphate transport pathway to arsenic accumulation in rice. <i>Plant Physiology</i> , 2011 , 157, 498-508 | 6.6 | 245 |
| 267 | Development of a real-time PCR assay for detection and quantification of <i>Rhizobium leguminosarum</i> bacteria and discrimination between different biovars in zinc-contaminated soil. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 4626-33 | 4.8 | 15 |
| 266 | The role of the rice aquaporin Lsi1 in arsenite efflux from roots. <i>New Phytologist</i> , 2010 , 186, 392-9 | 9.8 | 166 |
| 265 | Influence of sulfur deficiency on the expression of specific sulfate transporters and the distribution of sulfur, selenium, and molybdenum in wheat. <i>Plant Physiology</i> , 2010 , 153, 327-36 | 6.6 | 130 |
| 264 | Complexation of arsenite with phytochelatins reduces arsenite efflux and translocation from roots to shoots in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2010 , 152, 2211-21 | 6.6 | 188 |
| 263 | Arsenic speciation in phloem and xylem exudates of castor bean. <i>Plant Physiology</i> , 2010 , 154, 1505-13 | 6.6 | 90 |
| 262 | Molecular mechanisms of selenium tolerance and hyperaccumulation in <i>Stanleya pinnata</i> . <i>Plant Physiology</i> , 2010 , 153, 1630-52 | 6.6 | 173 |
| 261 | Accumulation, distribution, and speciation of arsenic in wheat grain. <i>Environmental Science & Technology</i> , 2010 , 44, 5464-8 | 10.3 | 74 |
| 260 | Arsenic bioavailability to rice is elevated in Bangladeshi paddy soils. <i>Environmental Science & Technology</i> , 2010 , 44, 8515-21 | 10.3 | 119 |
| 259 | Arsenic influence on genetic variation in grain trace-element nutrient content in Bengal delta grown rice. <i>Environmental Science & Technology</i> , 2010 , 44, 8284-8 | 10.3 | 27 |
| 258 | Arsenic shoot-grain relationships in field grown rice cultivars. <i>Environmental Science & Technology</i> , 2010 , 44, 1471-7 | 10.3 | 51 |
| 257 | Selenium speciation in soil and rice: influence of water management and Se fertilization. <i>Journal of Agricultural and Food Chemistry</i> , 2010 , 58, 11837-43 | 5.7 | 101 |
| 256 | NanoSIMS analysis of arsenic and selenium in cereal grain. <i>New Phytologist</i> , 2010 , 185, 434-45 | 9.8 | 115 |
| 255 | Arsenic as a food chain contaminant: mechanisms of plant uptake and metabolism and mitigation strategies. <i>Annual Review of Plant Biology</i> , 2010 , 61, 535-59 | 30.7 | 854 |
| 254 | Rice is more efficient in arsenite uptake and translocation than wheat and barley. <i>Plant and Soil</i> , 2010 , 328, 27-34 | 4.2 | 228 |

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|-----|--|------|-----|
| 253 | Soil factors affecting selenium concentration in wheat grain and the fate and speciation of Se fertilisers applied to soil. <i>Plant and Soil</i> , 2010 , 332, 19-30 | 4.2 | 68 |
| 252 | Impact of sulphur fertilisation on crop response to selenium fertilisation. <i>Plant and Soil</i> , 2010 , 332, 31-40 | 4.2 | 63 |
| 251 | Selenium biofortification of high-yielding winter wheat (<i>Triticum aestivum</i> L.) by liquid or granular Se fertilisation. <i>Plant and Soil</i> , 2010 , 332, 5-18 | 4.2 | 191 |
| 250 | Impacts of sulphur nutrition on selenium and molybdenum concentrations in wheat grain. <i>Journal of Cereal Science</i> , 2010 , 52, 111-113 | 3.8 | 23 |
| 249 | Relative impact of soil, metal source and metal concentration on bacterial community structure and community tolerance. <i>Soil Biology and Biochemistry</i> , 2010 , 42, 1408-1417 | 7.5 | 15 |
| 248 | Predicting molybdenum toxicity to higher plants: influence of soil properties. <i>Environmental Pollution</i> , 2010 , 158, 3095-102 | 9.3 | 52 |
| 247 | Predicting molybdenum toxicity to higher plants: estimation of toxicity threshold values. <i>Environmental Pollution</i> , 2010 , 158, 3085-94 | 9.3 | 50 |
| 246 | Biofortification and phytoremediation. <i>Current Opinion in Plant Biology</i> , 2009 , 12, 373-80 | 9.9 | 238 |
| 245 | Heavy metals and soil microbes. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 2031-2037 | 7.5 | 285 |
| 244 | Variation in mineral micronutrient concentrations in grain of wheat lines of diverse origin. <i>Journal of Cereal Science</i> , 2009 , 49, 290-295 | 3.8 | 302 |
| 243 | Effect of nitrogen form on the rhizosphere dynamics and uptake of cadmium and zinc by the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Plant and Soil</i> , 2009 , 318, 205-215 | 4.2 | 99 |
| 242 | Arsenic uptake and metabolism in plants. <i>New Phytologist</i> , 2009 , 181, 777-794 | 9.8 | 837 |
| 241 | Arsenite efflux is not enhanced in the arsenate-tolerant phenotype of <i>Holcus lanatus</i> . <i>New Phytologist</i> , 2009 , 183, 340-348 | 9.8 | 50 |
| 240 | Toxicity of trace metals in soil as affected by soil type and aging after contamination: using calibrated bioavailability models to set ecological soil standards. <i>Environmental Toxicology and Chemistry</i> , 2009 , 28, 1633-42 | 3.8 | 286 |
| 239 | Response to the Comment by Van Geen and Duxbury. <i>Environmental Science & Technology</i> , 2009 , 43, 3972-3973 | 10.3 | 3 |
| 238 | Modelling phytoremediation by the hyperaccumulating fern, <i>Pteris vittata</i> , of soils historically contaminated with arsenic. <i>Environmental Pollution</i> , 2009 , 157, 1589-96 | 9.3 | 70 |
| 237 | Phytotoxicity and bioavailability of cobalt to plants in a range of soils. <i>Chemosphere</i> , 2009 , 75, 979-86 | 8.4 | 105 |
| 236 | Mitigation of arsenic accumulation in rice with water management and silicon fertilization. <i>Environmental Science & Technology</i> , 2009 , 43, 3778-83 | 10.3 | 307 |

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|-----|---|------|-----|
| 235 | 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. <i>Environmental Science & Technology</i> , 2009 , 43, 8381-6 | 10.3 | 125 |
| 234 | Identification of low inorganic and total grain arsenic rice cultivars from Bangladesh. <i>Environmental Science & Technology</i> , 2009 , 43, 6070-5 | 10.3 | 133 |
| 233 | The rice aquaporin Lsi1 mediates uptake of methylated arsenic species. <i>Plant Physiology</i> , 2009 , 150, 2071-80 | 6.8 | 283 |
| 232 | METHODS FOR THE ANALYSIS OF SELENIUM AND OTHER MINERALS 2009 , 95-111 | | |
| 231 | Selenium uptake, translocation and speciation in wheat supplied with selenate or selenite. <i>New Phytologist</i> , 2008 , 178, 92-102 | 9.8 | 456 |
| 230 | Variation in root-to-shoot translocation of cadmium and zinc among different accessions of the hyperaccumulators <i>Thlaspi caerulescens</i> and <i>Thlaspi praecox</i> . <i>New Phytologist</i> , 2008 , 178, 315-325 | 9.8 | 83 |
| 229 | Highly efficient xylem transport of arsenite in the arsenic hyperaccumulator <i>Pteris vittata</i> . <i>New Phytologist</i> , 2008 , 180, 434-441 | 9.8 | 135 |
| 228 | Historical changes in the concentrations of selenium in soil and wheat grain from the Broadbalk experiment over the last 160 years. <i>Science of the Total Environment</i> , 2008 , 389, 532-8 | 10.2 | 39 |
| 227 | Population size of indigenous <i>Rhizobium leguminosarum</i> biovar <i>trifolii</i> in long-term field experiments with sewage sludge cake, metal-amended liquid sludge or metal salts: Effects of zinc, copper and cadmium. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 1670-1680 | 7.5 | 48 |
| 226 | Growing rice aerobically markedly decreases arsenic accumulation. <i>Environmental Science & Technology</i> , 2008 , 42, 5574-9 | 10.3 | 486 |
| 225 | Atmospheric SO ₂ emissions since the late 1800s change organic sulfur forms in humic substance extracts of soils. <i>Environmental Science & Technology</i> , 2008 , 42, 3550-5 | 10.3 | 34 |
| 224 | Speciation of zinc in contaminated soils. <i>Environmental Pollution</i> , 2008 , 155, 208-16 | 9.3 | 45 |
| 223 | Use of Co speciation and soil properties to explain variation in Co toxicity to root growth of barley (<i>Hordeum vulgare</i> L.) in different soils. <i>Environmental Pollution</i> , 2008 , 156, 883-90 | 9.3 | 38 |
| 222 | Does cadmium play a physiological role in the hyperaccumulator <i>Thlaspi caerulescens</i> ?. <i>Chemosphere</i> , 2008 , 71, 1276-83 | 8.4 | 75 |
| 221 | Transporters of arsenite in rice and their role in arsenic accumulation in rice grain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 9931-5 | 11.5 | 969 |
| 220 | Low biodegradability of fluoxetine HCl, diazepam and their human metabolites in sewage sludge-amended soil. <i>Journal of Soils and Sediments</i> , 2008 , 8, 217-230 | 3.4 | 79 |
| 219 | Evidence of decreasing mineral density in wheat grain over the last 160 years. <i>Journal of Trace Elements in Medicine and Biology</i> , 2008 , 22, 315-24 | 4.1 | 282 |
| 218 | Rapid reduction of arsenate in the medium mediated by plant roots. <i>New Phytologist</i> , 2007 , 176, 590-599.8 | 9.8 | 297 |

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|-----|--|------|-----|
| 217 | Effects of soil compaction and irrigation on the concentrations of selenium and arsenic in wheat grains. <i>Science of the Total Environment</i> , 2007 , 372, 433-9 | 10.2 | 47 |
| 216 | Phytoextraction of cadmium and zinc by <i>Salix</i> from soil historically amended with sewage sludge. <i>Plant and Soil</i> , 2007 , 290, 157-172 | 4.2 | 65 |
| 215 | Expression and functional analysis of metal transporter genes in two contrasting ecotypes of the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Journal of Experimental Botany</i> , 2007 , 58, 1717-28 | 7 | 111 |
| 214 | Phytotoxicity of nickel in a range of European soils: influence of soil properties, Ni solubility and speciation. <i>Environmental Pollution</i> , 2007 , 145, 596-605 | 9.3 | 125 |
| 213 | Estimates of ambient background concentrations of trace metals in soils for risk assessment. <i>Environmental Pollution</i> , 2007 , 148, 221-9 | 9.3 | 65 |
| 212 | Phytoextraction of cadmium and zinc from arable soils amended with sewage sludge using <i>Thlaspi caerulescens</i> : development of a predictive model. <i>Environmental Pollution</i> , 2007 , 150, 363-72 | 9.3 | 64 |
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