

# Enzo Lombi

## 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.

243  
papers

17,598  
citations

72  
h-index

126  
g-index

251  
ext. papers

19,660  
ext. citations

7.2  
avg. IF

6.72  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 243 | Methods for assessing laterally-resolved distribution, speciation and bioavailability of phosphorus in soils. <i>Reviews in Environmental Science and Biotechnology</i> , <b>2022</b> , 21, 53-74                     | 13.9 | 1         |
| 242 | Unraveling microbiomes and functions associated with strategic tillage, stubble, and fertilizer management. <i>Agriculture, Ecosystems and Environment</i> , <b>2022</b> , 323, 107686                                | 5.7  | 1         |
| 241 | Pesticide effects on nitrogen cycle related microbial functions and community composition. <i>Science of the Total Environment</i> , <b>2022</b> , 807, 150734  | 10.2 | 3         |
| 240 | Use of X-ray tomography for examining root architecture in soils. <i>Geoderma</i> , <b>2022</b> , 405, 115405   | 6.7  | 5         |
| 239 | Translocation of Foliar Absorbed Zn in Sunflower () Leaves.. <i>Frontiers in Plant Science</i> , <b>2022</b> , 13, 757048   | 6.2  | 0         |
| 238 | Non-glandular trichomes of sunflower are important in the absorption and translocation of foliar-applied Zn. <i>Journal of Experimental Botany</i> , <b>2021</b> , 72, 5079-5092                                      | 7    | 5         |
| 237 | Insights into the fate of antimony (Sb) in contaminated soils: Ageing influence on Sb mobility, bioavailability, bioaccessibility and speciation. <i>Science of the Total Environment</i> , <b>2021</b> , 770, 145354 | 10.2 | 14        |
| 236 | Zinc Accumulates in the Nodes of Wheat Following the Foliar Application of Zn Oxide Nano- and Microparticles. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 13523-13531                           | 10.3 | 1         |
| 235 | Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 926-932   | 28.7 | 18        |
| 234 | Neutral electrolyzed oxidizing water is effective for pre-harvest decontamination of fresh produce. <i>Food Microbiology</i> , <b>2021</b> , 93, 103610   | 6    | 3         |
| 233 | Development and evaluation of a new colorimetric DGT technique for the 2D visualisation of labile phosphate in soils. <i>Chemosphere</i> , <b>2021</b> , 269, 128704  | 8.4  | 2         |
| 232 | Synchrotron-Based Imaging Reveals the Fate of Selenium in Striped Marsh Frog Tadpoles. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 11848-11858  | 10.3 | 0         |
| 231 | Phosphorus speciation in the fertosphere of highly concentrated fertilizer bands. <i>Geoderma</i> , <b>2021</b> , 403, 115208   | 6.7  | 2         |
| 230 | Risk assessment on-a-chip: a cell-based microfluidic device for immunotoxicity screening. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 682-691  | 5.1  | 6         |
| 229 | Bioimaging Techniques Reveal Foliar Phosphate Uptake Pathways and Leaf Phosphorus Status. <i>Plant Physiology</i> , <b>2020</b> , 183, 1472-1483  | 6.6  | 8         |
| 228 | Methods to Visualize Elements in Plants. <i>Plant Physiology</i> , <b>2020</b> , 182, 1869-1882   | 6.6  | 15        |
| 227 | Disinfection options for irrigation water: Reducing the risk of fresh produce contamination with human pathogens. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2020</b> , 50, 2144-2174       | 11.1 | 13        |

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| 226 | Zinc from foliar-applied nanoparticle fertiliser is translocated to wheat grain: A Zn radiolabelled translocation study comparing conventional and novel foliar fertilisers. <i>Science of the Total Environment</i> , <b>2020</b> , 749, 142369 | 10.2 | 11  |
| 225 | Optimising the foliar uptake of zinc oxide nanoparticles: Do leaf surface properties and particle coating affect absorption?. <i>Physiologia Plantarum</i> , <b>2020</b> , 170, 384-397  | 4.6  | 11  |
| 224 | Plant-Available Phosphorus in Highly Concentrated Fertilizer Bands: Effects of Soil Type, Phosphorus Form, and Coapplied Potassium. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 7571-7580                              | 5.7  | 13  |
| 223 | Zinc Speciation in Organic Waste Drives Its Fate in Amended Soils. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12034-12041   | 10.3 | 6   |
| 222 | Chemical Speciation and Distribution of Cadmium in Rice Grain and Implications for Bioavailability to Humans. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 12072-12080  | 10.3 | 18  |
| 221 | Mobility and potential bioavailability of antimony in contaminated soils: Short-term impact on microbial community and soil biochemical functioning. <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 196, 110576                   | 7    | 13  |
| 220 | Dynamics of Lead Bioavailability and Speciation in Indoor Dust and X-ray Spectroscopic Investigation of the Link between Ingestion and Inhalation Pathways. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 11486-11495        | 10.3 | 11  |
| 219 | Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 3027-3028                          | 7.1  | 7   |
| 218 | Biochar with near-neutral pH reduces ammonia volatilization and improves plant growth in a soil-plant system: A closed chamber experiment. <i>Science of the Total Environment</i> , <b>2019</b> , 697, 134114                                   | 10.2 | 28  |
| 217 | Multiparameter toxicity screening on a chip: Effects of UV radiation and titanium dioxide nanoparticles on HaCaT cells. <i>Biomicrofluidics</i> , <b>2019</b> , 13, 044112   | 3.2  | 3   |
| 216 | Investigating the foliar uptake of zinc from conventional and nano-formulations: a methodological study. <i>Environmental Chemistry</i> , <b>2019</b> , 16, 459  | 3.2  | 12  |
| 215 | A One Health approach to managing the applications and implications of nanotechnologies in agriculture. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 523-531   | 28.7 | 64  |
| 214 | Nanoparticle Size and Coating Chemistry Control Foliar Uptake Pathways, Translocation, and Leaf-to-Rhizosphere Transport in Wheat. <i>ACS Nano</i> , <b>2019</b> , 13, 5291-5305   | 16.7 | 151 |
| 213 | Combining diffusive gradients in thin films (DGT) and spectroscopic techniques for the determination of phosphorus species in soils. <i>Analytica Chimica Acta</i> , <b>2019</b> , 1057, 80-87   | 6.6  | 9   |
| 212 | Understanding the interaction of gold and silver nanoparticles with natural organic matter using affinity capillary electrophoresis. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1351-1362   | 7.1  | 5   |
| 211 | Absorption of foliar-applied Zn in sunflower ( <i>Helianthus annuus</i> ): importance of the cuticle, stomata and trichomes. <i>Annals of Botany</i> , <b>2019</b> , 123, 57-68  | 4.1  | 48  |
| 210 | Assessing plant-available glyphosate in contrasting soils by diffusive gradient in thin-films technique (DGT). <i>Science of the Total Environment</i> , <b>2019</b> , 646, 735-744  | 10.2 | 9   |
| 209 | Soil and the intensification of agriculture for global food security. <i>Environment International</i> , <b>2019</b> , 132, 105078   | 12.9 | 217 |

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| 208 | Transformation of Calcium Phosphates in Alkaline Vertisols by Acidified Incubation. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10131-10138   | 10.3 | 4  |
| 207 | , and Spectroscopic Assessment of Lead Exposure Reduction via Ingestion and Inhalation Pathways Using Phosphate and Iron Amendments. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 10329-10341      | 10.3 | 15 |
| 206 | Comparative antibacterial activities of neutral electrolyzed oxidizing water and other chlorine-based sanitizers. <i>Scientific Reports</i> , <b>2019</b> , 9, 19955  | 4.9  | 9  |
| 205 | Nanomaterials as fertilizers for improving plant mineral nutrition and environmental outcomes. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 3513-3524  | 7.1  | 54 |
| 204 | Metabolic engineering of bread wheat improves grain iron concentration and bioavailability. <i>Plant Biotechnology Journal</i> , <b>2019</b> , 17, 1514-1526  | 11.6 | 43 |
| 203 | Absorption of foliar-applied Zn fertilizers by trichomes in soybean and tomato. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 2717-2729   | 7    | 54 |
| 202 | Microfluidic Cell Microarray Platform for High Throughput Analysis of Particle-Cell Interactions. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 4338-4347   | 7.8  | 15 |
| 201 | Effects of methyl jasmonate on plant growth and leaf properties. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2018</b> , 181, 409-418  | 2.3  | 22 |
| 200 | The effect of biochar feedstock, pyrolysis temperature, and application rate on the reduction of ammonia volatilisation from biochar-amended soil. <i>Science of the Total Environment</i> , <b>2018</b> , 627, 942-950 | 10.2 | 61 |
| 199 | Methodologies and approaches for the analysis of cell-nanoparticle interactions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2018</b> , 10, e1486                                   | 9.2  | 20 |
| 198 | Temporal Evolution of Copper Distribution and Speciation in Roots of Triticum aestivum Exposed to CuO, Cu(OH), and CuS Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 9777-9784       | 10.3 | 27 |
| 197 | Reactive gaseous mercury is generated from chloralkali factories resulting in extreme concentrations of mercury in hair of workers. <i>Scientific Reports</i> , <b>2018</b> , 8, 3675                                   | 4.9  | 7  |
| 196 | Synchrotron-Based X-Ray Fluorescence Microscopy as a Technique for Imaging of Elements in Plants. <i>Plant Physiology</i> , <b>2018</b> , 178, 507-523  | 6.6  | 82 |
| 195 | Synchrotron X-ray spectroscopy for investigating vanadium speciation in marine sediment: limitations and opportunities. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2018</b> , 33, 1689-1699                  | 3.7  | 9  |
| 194 | Absorption of foliar applied Zn is decreased in Zn deficient sunflower ( <i>Helianthus annuus</i> ) due to changes in leaf properties. <i>Plant and Soil</i> , <b>2018</b> , 433, 309-322                               | 4.2  | 12 |
| 193 | Engineered silver nanoparticles in terrestrial environments: a meta-analysis shows that the overall environmental risk is small. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 2531-2544                        | 7.1  | 19 |
| 192 | Silver Toxicity Thresholds for Multiple Soil Microbial Biomarkers. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 8745-8755  | 10.3 | 10 |
| 191 | Foliar application of zinc sulphate and zinc EDTA to wheat leaves: differences in mobility, distribution, and speciation. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 4469-4481                           | 7    | 56 |

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| 190 | Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. <i>Nanotoxicology</i> , <b>2017</b> , 11, 150-156   | 5.3  | 20 |
| 189 | Synchrotron-based X-Ray Approaches for Examining Toxic Trace Metal(loid)s in Soil-Plant Systems. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 1175-1189   | 3.4  | 35 |
| 188 | The effect of different pyrolysis temperatures on the speciation and availability in soil of P in biochar produced from the solid fraction of manure. <i>Chemosphere</i> , <b>2017</b> , 169, 377-386  | 8.4  | 57 |
| 187 | Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by Wheat ( <i>Triticum aestivum</i> ). <i>Environmental Science &amp; Technology</i> , <b>2017</b> , 51, 7361-7368  | 10.3 | 97 |
| 186 | Use of municipal solid wastes for chemical and microbiological recovery of soils contaminated with metal(loid)s. <i>Soil Biology and Biochemistry</i> , <b>2017</b> , 111, 25-35   | 7.5  | 32 |
| 185 | Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 448-460  | 7.1  | 66 |
| 184 | Crossed flow microfluidics for high throughput screening of bioactive chemical-cell interactions. <i>Lab on A Chip</i> , <b>2017</b> , 17, 501-510   | 7.2  | 15 |
| 183 | Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. <i>ACS Nano</i> , <b>2017</b> , 11, 10894-10902   | 16.7 | 37 |
| 182 | Phosphorus availability of sewage sludge-based fertilizers determined by the diffusive gradients in thin films (DGT) technique. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2017</b> , 180, 594-601  | 2.3  | 24 |
| 181 | Mechanistic insights of 2,4-D sorption onto biochar: Influence of feedstock materials and biochar properties. <i>Bioresource Technology</i> , <b>2017</b> , 246, 160-167   | 11   | 35 |
| 180 | Aging of Dissolved Copper and Copper-based Nanoparticles in Five Different Soils: Short-term Kinetics vs. Long-term Fate. <i>Journal of Environmental Quality</i> , <b>2017</b> , 46, 1198-1205  | 3.4  | 49 |
| 179 | Single Cell Level Quantification of Nanoparticle-Cell Interactions Using Mass Cytometry. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 8228-8232   | 7.8  | 21 |
| 178 | Effects of changes in leaf properties mediated by methyl jasmonate (MeJA) on foliar absorption of Zn, Mn and Fe. <i>Annals of Botany</i> , <b>2017</b> , 120, 405-415  | 4.1  | 21 |
| 177 | The Use of Microfluidics in Cytotoxicity and Nanotoxicity Experiments. <i>Micromachines</i> , <b>2017</b> , 8, 124   | 3.3  | 15 |
| 176 | Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 448-460  | 7.1  | 15 |
| 175 | Optimization of binding B-lymphocytes in a microfluidic channel: surface modification, stasis time and shear response. <i>Biofabrication</i> , <b>2017</b> , 10, 014101  | 10.5 | 10 |
| 174 | Cobalamin Concentrations in Fetal Liver Show Gender Differences: A Result from Using a High-Pressure Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometry as an Ultratrace Cobalt Speciation Method. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12419-12426 | 7.8  | 2  |
| 173 | In vivo formation of natural HgSe nanoparticles in the liver and brain of pilot whales. <i>Scientific Reports</i> , <b>2016</b> , 6, 34361   | 4.9  | 59 |

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| 172 | Sulfur crosslinks from thermal degradation of chitosan dithiocarbamate derivatives and thermodynamic study for sorption of copper and cadmium from aqueous system. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 1050-9                               | 5.1  | 14  |
| 171 | Analytical characterisation of nanoscale zero-valent iron: A methodological review. <i>Analytica Chimica Acta</i> , <b>2016</b> , 903, 13-35  | 6.6  | 63  |
| 170 | Sorption of silver nanoparticles to laboratory plastic during (eco)toxicological testing. <i>Nanotoxicology</i> , <b>2016</b> , 10, 385-90  | 5.3  | 16  |
| 169 | Evaluating the mobility of polymer-stabilised zero-valent iron nanoparticles and their potential to co-transport contaminants in intact soil cores. <i>Environmental Pollution</i> , <b>2016</b> , 216, 636-645   | 9.3  | 19  |
| 168 | Silver Nanoparticles Entering Soils via the Wastewater-Sludge-Soil Pathway Pose Low Risk to Plants but Elevated Cl Concentrations Increase Ag Bioavailability. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 8274-81  | 10.3 | 75  |
| 167 | Element distribution and iron speciation in mature wheat grains ( <i>Triticum aestivum</i> L.) using synchrotron X-ray fluorescence microscopy mapping and X-ray absorption near-edge structure (XANES) imaging. <i>Plant, Cell and Environment</i> , <b>2016</b> , 39, 1835-47 | 8.4  | 51  |
| 166 | Biofortified indica rice attains iron and zinc nutrition dietary targets in the field. <i>Scientific Reports</i> , <b>2016</b> , 6, 19792   | 4.9  | 181 |
| 165 | Quantitative multimodal analyses of silver nanoparticle-cell interactions: Implications for cytotoxicity. <i>NanoImpact</i> , <b>2016</b> , 1, 29-38  | 5.6  | 17  |
| 164 | Novel application of X-ray fluorescence microscopy (XFM) for the non-destructive micro-elemental analysis of natural mineral pigments on Aboriginal Australian objects. <i>Analyst, The</i> , <b>2016</b> , 141, 3657-67  | 5    | 8   |
| 163 | XANES Demonstrates the Release of Calcium Phosphates from Alkaline Vertisols to Moderately Acidified Solution. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 4229-37  | 10.3 | 36  |
| 162 | Nanotechnology: A New Opportunity in Plant Sciences. <i>Trends in Plant Science</i> , <b>2016</b> , 21, 699-712   | 13.1 | 481 |
| 161 | Unraveling the Complexity in the Aging of Nanoenhanced Textiles: A Comprehensive Sequential Study on the Effects of Sunlight and Washing on Silver Nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 5790-9                                      | 10.3 | 41  |
| 160 | Unraveling the Complex Behavior of AgNPs Driving NP-Cell Interactions and Toxicity to Algal Cells. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 12455-12463  | 10.3 | 24  |
| 159 | Arsenic concentrations and species in three hydrothermal vent worms, <i>Ridgeia piscesae</i> , <i>Paralvinella sulficola</i> and <i>Paralvinella palmiformis</i> . <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>2016</b> , 116, 41-48                    | 2.5  | 3   |
| 158 | Speciation and lability of Ag <sup>0</sup> , AgCl <sup>-</sup> , and Ag <sub>2</sub> S-nanoparticles in soil determined by X-ray absorption spectroscopy and diffusive gradients in thin films. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 897-905       | 10.3 | 88  |
| 157 | Quantifying the adsorption of ionic silver and functionalized nanoparticles during ecotoxicity testing: Test container effects and recommendations. <i>Nanotoxicology</i> , <b>2015</b> , 9, 1005-12  | 5.3  | 41  |
| 156 | Silver sulfide nanoparticles (Ag <sub>2</sub> S-NPs) are taken up by plants and are phytotoxic. <i>Nanotoxicology</i> , <b>2015</b> , 9, 1041-9   | 5.3  | 80  |
| 155 | Synchrotron-based X-ray absorption near-edge spectroscopy imaging for laterally resolved speciation of selenium in fresh roots and leaves of wheat and rice. <i>Journal of Experimental Botany</i> , <b>2015</b> , 66, 4795-806   | 7    | 35  |

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| 154 | Microelemental characterisation of Aboriginal Australian natural Fe oxide pigments. <i>Analytical Methods</i> , <b>2015</b> , 7, 7363-7380   | 3.2  | 7   |
| 153 | Selenopeptides and elemental selenium in <i>Thunbergia alata</i> after exposure to selenite: quantification method for elemental selenium. <i>Metallomics</i> , <b>2015</b> , 7, 1056-66   | 4.5  | 17  |
| 152 | Fate of zinc and silver engineered nanoparticles in sewerage networks. <i>Water Research</i> , <b>2015</b> , 77, 72-84   | 12.5 | 84  |
| 151 | Changes in soil bacterial communities and diversity in response to long-term silver exposure. <i>FEMS Microbiology Ecology</i> , <b>2015</b> , 91,   | 4.3  | 47  |
| 150 | Bridging the divide between human and environmental nanotoxicology. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 835-44  | 28.7 | 62  |
| 149 | In Situ Fixation of Metal(loid)s in Contaminated Soils: A Comparison of Conventional, Opportunistic, and Engineered Soil Amendments. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 13501-9                                 | 10.3 | 28  |
| 148 | Aggregation behaviour of engineered nanoparticles in natural waters: characterising aggregate structure using on-line laser light scattering. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 284, 190-200                               | 12.8 | 52  |
| 147 | In situ chemical transformations of silver nanoparticles along the water-sediment continuum. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 318-25  | 10.3 | 33  |
| 146 | Probabilistic modelling of engineered nanomaterial emissions to the environment: a spatio-temporal approach. <i>Environmental Science: Nano</i> , <b>2015</b> , 2, 340-351   | 7.1  | 65  |
| 145 | Agglomeration behaviour of titanium dioxide nanoparticles in river waters: A multi-method approach combining light scattering and field-flow fractionation techniques. <i>Journal of Environmental Management</i> , <b>2015</b> , 159, 135-142 | 7.9  | 9   |
| 144 | Non-labile silver species in biosolids remain stable throughout 50 years of weathering and ageing. <i>Environmental Pollution</i> , <b>2015</b> , 205, 78-86   | 9.3  | 38  |
| 143 | Synchrotron-Based Techniques Shed Light on Mechanisms of Plant Sensitivity and Tolerance to High Manganese in the Root Environment. <i>Plant Physiology</i> , <b>2015</b> , 169, 2006-20   | 6.6  | 39  |
| 142 | Identification of the primary lesion of toxic aluminum in plant roots. <i>Plant Physiology</i> , <b>2015</b> , 167, 1402-11  | 6.6  | 145 |
| 141 | Characterising the exchangeability of phenanthrene associated with naturally occurring soil colloids using an isotopic dilution technique. <i>Environmental Pollution</i> , <b>2015</b> , 199, 244-52  | 9.3  | 4   |
| 140 | Distribution of Minerals in Wheat Grains ( <i>Triticum aestivum</i> L.) and in Roller Milling Fractions Affected by Pearling. <i>Journal of Agricultural and Food Chemistry</i> , <b>2015</b> , 63, 1276-1285                                  | 5.7  | 39  |
| 139 | Laterally resolved speciation of arsenic in roots of wheat and rice using fluorescence-XANES imaging. <i>New Phytologist</i> , <b>2014</b> , 201, 1251-1262  | 9.8  | 69  |
| 138 | Imaging element distribution and speciation in plant cells. <i>Trends in Plant Science</i> , <b>2014</b> , 19, 183-92  | 13.1 | 113 |
| 137 | Leachability, bioaccessibility and plant availability of trace elements in contaminated soils treated with industrial by-products and subjected to oxidative/reductive conditions. <i>Geoderma</i> , <b>2014</b> , 214-215, 204-212            | 6.7  | 39  |

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|-----|--|------|-----|
| 136 | Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?. <i>Soil Biology and Biochemistry</i> , <b>2014</b> , 74, 1-10   | 7.5  | 17  |
| 135 | Localization of iron in rice grain using synchrotron X-ray fluorescence microscopy and high resolution secondary ion mass spectrometry. <i>Journal of Cereal Science</i> , <b>2014</b> , 59, 173-180 | 3.8  | 54  |
| 134 | Fate and lability of silver in soils: effect of ageing. <i>Environmental Pollution</i> , <b>2014</b> , 191, 151-7  | 9.3  | 53  |
| 133 | Silver speciation and release in commercial antimicrobial textiles as influenced by washing. <i>Chemosphere</i> , <b>2014</b> , 111, 352-8   | 8.4  | 87  |
| 132 | Maia X-ray fluorescence imaging: Capturing detail in complex natural samples. <i>Journal of Physics: Conference Series</i> , <b>2014</b> , 499, 012002   | 0.3  | 119 |
| 131 | Speciation mapping of environmental samples using XANES imaging. <i>Environmental Chemistry</i> , <b>2014</b> , 11, 341  | 3.2  | 45  |
| 130 | Hard X-ray synchrotron biogeochemistry: piecing together the increasingly detailed puzzle. <i>Environmental Chemistry</i> , <b>2014</b> , 11, 1  | 3.2  | 4   |
| 129 | The rhizotoxicity of metal cations is related to their strength of binding to hard ligands. <i>Environmental Toxicology and Chemistry</i> , <b>2014</b> , 33, 268-77                                 | 3.8  | 23  |
| 128 | Speciation of metal(loid)s in environmental samples by X-ray absorption spectroscopy: a critical review. <i>Analytica Chimica Acta</i> , <b>2014</b> , 822, 1-22                                     | 6.6  | 127 |
| 127 | Surface immobilization of engineered nanomaterials for in situ study of their environmental transformations and fate. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 9308-16      | 10.3 | 26  |
| 126 | Application of MicroResp <sup>®</sup> for soil ecotoxicology. <i>Environmental Pollution</i> , <b>2013</b> , 179, 177-84   | 9.3  | 18  |
| 125 | Effects of chemical amendments on the lability and speciation of metals in anaerobically digested biosolids. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11157-65              | 10.3 | 19  |
| 124 | Fate of ZnO nanoparticles in soils and cowpea ( <i>Vigna unguiculata</i> ). <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 13822-30   | 10.3 | 220 |
| 123 | Synthesis and Characterization of Thiolated Chitosan Beads for Removal of Cu(II) and Cd(II) from Wastewater. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1                            | 2.6  | 28  |
| 122 | Remediation of Site Contamination. <i>Water, Air, and Soil Pollution</i> , <b>2013</b> , 224, 1  | 2.6  |     |
| 121 | Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. <i>Environmental Pollution</i> , <b>2013</b> , 176, 193-7 | 9.3  | 169 |
| 120 | Distribution and speciation of Mn in hydrated roots of cowpea at levels inhibiting root growth. <i>Physiologia Plantarum</i> , <b>2013</b> , 147, 453-64   | 4.6  | 19  |
| 119 | Sulfur-Containing Chitin and Chitosan Derivatives as Trace Metal Adsorbents: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , <b>2013</b> , 43, 1741-1794                 | 11.1 | 36  |



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|-----|--|------|-----|
| 118 | Aging of nickel added to soils as predicted by soil pH and time. <i>Chemosphere</i> , <b>2013</b> , 92, 962-8  | 8.4  | 42  |
| 117 | Measurement of inorganic arsenic species in rice after nitric acid extraction by HPLC-ICPMS: verification using XANES. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5821-7  | 10.3 | 60  |
| 116 | Assessing the contributions of lateral roots to element uptake in rice using an auxin-related lateral root mutant. <i>Plant and Soil</i> , <b>2013</b> , 372, 125-136  | 4.2  | 17  |
| 115 | Assessing the aggregation behaviour of iron oxide nanoparticles under relevant environmental conditions using a multi-method approach. <i>Water Research</i> , <b>2013</b> , 47, 4585-99   | 12.5 | 37  |
| 114 | Quantitative determination of metal and metalloid spatial distribution in hydrated and fresh roots of cowpea using synchrotron-based X-ray fluorescence microscopy. <i>Science of the Total Environment</i> , <b>2013</b> , 463-464, 131-9       | 10.2 | 35  |
| 113 | In situ speciation and distribution of toxic selenium in hydrated roots of cowpea. <i>Plant Physiology</i> , <b>2013</b> , 163, 407-18   | 6.6  | 17  |
| 112 | A radio-isotopic dilution technique for functional characterisation of the associations between inorganic contaminants and water-dispersible naturally occurring soil colloids. <i>Environmental Chemistry</i> , <b>2013</b> , 10, 341           | 3.2  | 8   |
| 111 | Mapping element distributions in plant tissues using synchrotron X-ray fluorescence techniques. <i>Methods in Molecular Biology</i> , <b>2013</b> , 953, 143-59  | 1.4  | 7   |
| 110 | A multi-technique investigation of copper and zinc distribution, speciation and potential bioavailability in biosolids. <i>Environmental Pollution</i> , <b>2012</b> , 166, 57-64  | 9.3  | 48  |
| 109 | A review of recent developments in the speciation and location of arsenic and selenium in rice grain. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3275-86   | 4.4  | 73  |
| 108 | Grain accumulation of selenium species in rice ( <i>Oryza sativa</i> L.). <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 5557-64  | 10.3 | 59  |
| 107 | Assessing the plant availability of manganese in soils using Diffusive Gradients in Thin films (DGT). <i>Geoderma</i> , <b>2012</b> , 183-184, 92-99   | 6.7  | 26  |
| 106 | Losses of essential mineral nutrients by polishing of rice differ among genotypes due to contrasting grain hardness and mineral distribution. <i>Journal of Cereal Science</i> , <b>2012</b> , 56, 307-315                                       | 3.8  | 49  |
| 105 | Fate of zinc oxide nanoparticles during anaerobic digestion of wastewater and post-treatment processing of sewage sludge. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 9089-96  | 10.3 | 175 |
| 104 | Characterization of leached phosphorus from soil, manure, and manure-amended soil by physical and chemical fractionation and Diffusive Gradients in Thin films (DGT). <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 10564-71 | 10.3 | 26  |
| 103 | The availability of copper in soils historically amended with sewage sludge, manure, and compost. <i>Journal of Environmental Quality</i> , <b>2012</b> , 41, 506-14   | 3.4  | 31  |
| 102 | Elemental imaging at the nanoscale: NanoSIMS and complementary techniques for element localisation in plants. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3263-73   | 4.4  | 121 |
| 101 | Functional characterisation of metal(loid) processes in planta through the integration of synchrotron techniques and plant molecular biology. <i>Analytical and Bioanalytical Chemistry</i> , <b>2012</b> , 402, 3287-98                         | 4.4  | 54  |

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|-----|--|------|-----|
| 100 | Lead, antimony and arsenic in dissolved and colloidal fractions from an amended shooting-range soil as characterised by multi-stage tangential ultrafiltration and centrifugation. <i>Environmental Chemistry</i> , <b>2012</b> , 9, 462 | 3.2  | 14  |
| 99  | 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> , <b>2012</b> , 109, E3336; author reply E3337                       | 11.5 | 16  |
| 98  | Examination of the distribution of arsenic in hydrated and fresh cowpea roots using two- and three-dimensional techniques. <i>Plant Physiology</i> , <b>2012</b> , 159, 1149-58  | 6.6  | 39  |
| 97  | Manganese Toxicity in Barley is Controlled by Solution Manganese and Soil Manganese Speciation. <i>Soil Science Society of America Journal</i> , <b>2012</b> , 76, 399-407   | 2.5  | 24  |
| 96  | A new method for determination of potassium in soils using diffusive gradients in thin films (DGT). <i>Environmental Chemistry</i> , <b>2012</b> , 9, 14   | 3.2  | 12  |
| 95  | X-ray absorption and micro X-ray fluorescence spectroscopy investigation of copper and zinc speciation in biosolids. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 7249-57   | 10.3 | 65  |
| 94  | Hair analysis as a biomonitor for toxicology, disease and health status. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 3915-40   | 58.5 | 124 |
| 93  | Applicability of diffusive gradients in thin films for measuring Mn in soils and freshwater sediments. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8984-91   | 7.8  | 8   |
| 92  | Advanced in situ spectroscopic techniques and their applications in environmental biogeochemistry: introduction to the special section. <i>Journal of Environmental Quality</i> , <b>2011</b> , 40, 659-66                               | 3.4  | 21  |
| 91  | Constitutive overexpression of the OsNAS gene family reveals single-gene strategies for effective iron- and zinc-biofortification of rice endosperm. <i>PLoS ONE</i> , <b>2011</b> , 6, e24476   | 3.7  | 260 |
| 90  | Phloem transport of arsenic species from flag leaf to grain during grain filling. <i>New Phytologist</i> , <b>2011</b> , 192, 87-98  | 9.8  | 146 |
| 89  | In situ analysis of metal(loid)s in plants: State of the art and artefacts. <i>Environmental and Experimental Botany</i> , <b>2011</b> , 72, 3-17  | 5.9  | 120 |
| 88  | The use of DGT for prediction of plant available copper, zinc and phosphorus in agricultural soils. <i>Plant and Soil</i> , <b>2011</b> , 346, 167-180   | 4.2  | 110 |
| 87  | Trends in hard X-ray fluorescence mapping: environmental applications in the age of fast detectors. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 1637-44   | 4.4  | 84  |
| 86  | Megapixel imaging of (micro)nutrients in mature barley grains. <i>Journal of Experimental Botany</i> , <b>2011</b> , 62, 273-82  | 7    | 113 |
| 85  | In situ distribution and speciation of toxic copper, nickel, and zinc in hydrated roots of cowpea. <i>Plant Physiology</i> , <b>2011</b> , 156, 663-73   | 6.6  | 118 |
| 84  | Fast x-ray fluorescence microtomography of hydrated biological samples. <i>PLoS ONE</i> , <b>2011</b> , 6, e20626  | 3.7  | 81  |
| 83  | Selenium speciation in soil and rice: influence of water management and Se fertilization. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 11837-43   | 5.7  | 101 |

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|----|--|------|-----|
| 82 | NanoSIMS analysis of arsenic and selenium in cereal grain. <i>New Phytologist</i> , <b>2010</b> , 185, 434-45  | 9.8  | 115 |
| 81 | Grain unloading of arsenic species in rice. <i>Plant Physiology</i> , <b>2010</b> , 152, 309-19  | 6.6  | 231 |
| 80 | Chemical behavior of fluid and granular Mn and Zn fertilisers in alkaline soils. <i>Soil Research</i> , <b>2010</b> , 48, 238  | 1.8  | 13  |
| 79 | Effect of water treatment residuals on soil phosphorus, copper and aluminium availability and toxicity. <i>Environmental Pollution</i> , <b>2010</b> , 158, 2110-6   | 9.3  | 44  |
| 78 | Metalloids, soil chemistry and the environment. <i>Advances in Experimental Medicine and Biology</i> , <b>2010</b> , 679, 33-44  | 3.6  | 13  |
| 77 | Speciation and isotopic exchangeability of nickel in soil solution. <i>Journal of Environmental Quality</i> , <b>2009</b> , 38, 485-92   | 3.4  | 24  |
| 76 | Critical review perspective: elemental speciation analysis methods in environmental chemistry - moving towards methodological integration. <i>Environmental Chemistry</i> , <b>2009</b> , 6, 275                           | 3.2  | 76  |
| 75 | Selenium characterization in the global rice supply chain. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6024-30   | 10.3 | 162 |
| 74 | Exchangeability of orthophosphate and pyrophosphate in soils: a double isotopic labelling study. <i>Plant and Soil</i> , <b>2009</b> , 314, 243-252  | 4.2  | 10  |
| 73 | Synchrotron-based techniques for plant and soil science: opportunities, challenges and future perspectives. <i>Plant and Soil</i> , <b>2009</b> , 320, 1-35  | 4.2  | 193 |
| 72 | Speciation and distribution of arsenic and localization of nutrients in rice grains. <i>New Phytologist</i> , <b>2009</b> , 184, 193-201   | 9.8  | 202 |
| 71 | Speciation and localization of arsenic in white and brown rice grains. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 1051-7  | 10.3 | 284 |
| 70 | Chapter 6 Advances in Isotopic Dilution Techniques in Trace Element Research. <i>Advances in Agronomy</i> , <b>2008</b> , 99, 289-343  | 7.7  | 39  |
| 69 | Chapter 7 Frontiers in assessing the role of chemical speciation and natural attenuation on the Bioavailability of Contaminants in the Terrestrial Environment. <i>Developments in Soil Science</i> , <b>2008</b> , 99-136 | 1.3  | 1   |
| 68 | Evidence for Different Reaction Pathways for Liquid and Granular Micronutrients in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 98-110  | 2.5  | 19  |
| 67 | Isotopic Exchangeability, Hydrolysis and Mobilization Reactions of Pyrophosphate in Soil. <i>Soil Science Society of America Journal</i> , <b>2008</b> , 72, 1337-1343   | 2.5  | 6   |
| 66 | Polyphosphate Speciation for Soil and Fertilizer Analysis. <i>Communications in Soil Science and Plant Analysis</i> , <b>2007</b> , 38, 2445-2460  | 1.5  | 4   |
| 65 | Synchrotron X-ray absorption-edge computed microtomography imaging of thallium compartmentalization in Iberis intermedia. <i>Plant and Soil</i> , <b>2007</b> , 290, 51-60   | 4.2  | 43  |

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|----|--|------|-----|
| 64 | Polyphosphate-fertilizer solution stability with time, temperature, and pH. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2007</b> , 170, 387-391  | 2.3  | 38  |
| 63 | Pyrophosphate and orthophosphate addition to soils: sorption, cation concentrations, and dissolved organic carbon. <i>Soil Research</i> , <b>2007</b> , 45, 237  | 1.8  | 11  |
| 62 | Long-term aging of copper added to soils. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 6310-7   | 10.3 | 169 |
| 61 | Stable isotope techniques for assessing labile Cu in soils: development of an L-value procedure, its application, and reconciliation with E values. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3342-8 | 10.3 | 24  |
| 60 | Field evaluation of Cd and Zn phytoextraction potential by the hyperaccumulators <i>Thlaspi caerulescens</i> and <i>Arabidopsis halleri</i> . <i>Environmental Pollution</i> , <b>2006</b> , 141, 115-25                     | 9.3  | 246 |
| 59 | Density Changes around Phosphorus Granules and Fluid Bands in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 960-966  | 2.5  | 33  |
| 58 | Speciation and Distribution of Phosphorus in a Fertilized Soil. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 2038-2048   | 2.5  | 87  |
| 57 | Hydrolysis of Pyrophosphate in a Highly Calcareous Soil. <i>Soil Science Society of America Journal</i> , <b>2006</b> , 70, 856-862  | 2.5  | 26  |
| 56 | Determination of labile Cu in soils and isotopic exchangeability of colloidal Cu complexes. <i>European Journal of Soil Science</i> , <b>2006</b> , 57, 147-153  | 3.4  | 20  |
| 55 | Short-term natural attenuation of copper in soils: effects of time, temperature, and soil characteristics. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 652-8   | 3.8  | 92  |
| 54 | Tolerance of nitrifying bacteria to copper and nickel. <i>Environmental Toxicology and Chemistry</i> , <b>2006</b> , 25, 2000-5  | 3.8  | 27  |
| 53 | Natural Attenuation <b>2006</b> , 173-195  |      |     |
| 52 | Biological Assessment of Natural Attenuation of Metals in Soil <b>2006</b> , 41-56   |      |     |
| 51 | An inter-laboratory study to test the ability of amendments to reduce the availability of Cd, Pb, and Zn in situ. <i>Environmental Pollution</i> , <b>2005</b> , 138, 34-45  | 9.3  | 199 |
| 50 | Responsiveness of wheat ( <i>Triticum aestivum</i> ) to liquid and granular phosphorus fertilisers in southern Australian soils. <i>Soil Research</i> , <b>2005</b> , 43, 203  | 1.8  | 45  |
| 49 | Effect of toxic cations on copper rhizotoxicity in wheat seedlings. <i>Environmental Toxicology and Chemistry</i> , <b>2005</b> , 24, 372-8  | 3.8  | 25  |
| 48 | Mobility, solubility and lability of fluid and granular forms of P fertiliser in calcareous and non-calcareous soils under laboratory conditions. <i>Plant and Soil</i> , <b>2005</b> , 269, 25-34                           | 4.2  | 39  |
| 47 | Changes of Ni biogeochemistry in the rhizosphere of the hyperaccumulator <i>Thlaspi goesingense</i> . <i>Plant and Soil</i> , <b>2005</b> , 271, 205-218   | 4.2  | 89  |

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| 46 | Model development for simulating the bioavailability of Ni to the hyperaccumulator <i>Thlaspi goesingense</i> <b>2005</b> , 391-418  |      |     |
| 45 | Mobility and Lability of Phosphorus from Granular and Fluid Monoammonium Phosphate Differs in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , <b>2004</b> , 68, 682-689  | 2.5  | 68  |
| 44 | Root and Rhizosphere Processes in Metal Hyperaccumulation and Phytoremediation Technology <b>2004</b> , 313-344  |      | 11  |
| 43 | Measurement of labile Cu in soil using stable isotope dilution and isotope ratio analysis by ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , <b>2004</b> , 380, 789-97   | 4.4  | 39  |
| 42 | Determination of Tl(I) and Tl(III) by IC-ICP-MS and application to Tl speciation analysis in the Tl hyperaccumulator plant <i>Iberis intermedia</i> . <i>Journal of Analytical Atomic Spectrometry</i> , <b>2004</b> , 19, 757-761                         | 3.7  | 42  |
| 41 | Coupling speciation and isotope dilution techniques to study arsenic mobilization in the environment. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 1794-8   | 10.3 | 55  |
| 40 | Kinetics of Zn release in soils and prediction of Zn concentration in plants using diffusive gradients in thin films. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 3608-13  | 10.3 | 126 |
| 39 | In vivo synchrotron study of thallium speciation and compartmentation in <i>Iberis intermedia</i> . <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 5095-100   | 10.3 | 92  |
| 38 | Assessment of the use of industrial by-products to remediate a copper- and arsenic-contaminated soil. <i>Journal of Environmental Quality</i> , <b>2004</b> , 33, 902-10   | 3.4  | 79  |
| 37 | Metal Bioaccumulation and Toxicity in Soils—Why Bother with Speciation?. <i>Australian Journal of Chemistry</i> , <b>2003</b> , 56, 77   | 1.2  | 99  |
| 36 | Immobilization of heavy metals in soils using inorganic amendments in a greenhouse study. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2003</b> , 166, 191-196  | 2.3  | 86  |
| 35 | Assessing the potential for zinc and cadmium phytoremediation with the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Plant and Soil</i> , <b>2003</b> , 249, 37-43   | 4.2  | 310 |
| 34 | Salinity induced differences in growth, ion distribution and partitioning in barley between the cultivar Maythorpe and its derived mutant Golden Promise. <i>Plant and Soil</i> , <b>2003</b> , 250, 183-191   | 4.2  | 86  |
| 33 | Comparison of toxicity of zinc for soil microbial processes between laboratory-contaminated and polluted field soils. <i>Environmental Toxicology and Chemistry</i> , <b>2003</b> , 22, 2592-8   | 3.8  | 58  |
| 32 | Uptake and distribution of nickel and other metals in the hyperaccumulator <i>Berkheya coddii</i> . <i>New Phytologist</i> , <b>2003</b> , 158, 279-285  | 9.8  | 119 |
| 31 | Lability of Cd, Cu, and Zn in polluted soils treated with lime, beringite, and red mud and identification of a non-labile colloidal fraction of metals using isotopic techniques. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 979-84 | 10.3 | 167 |
| 30 | Accumulation and distribution of aluminium and other elements in tea ( <i>Camellia sinensis</i> ) leaves. <i>Agronomy for Sustainable Development</i> , <b>2003</b> , 23, 705-710  |      | 48  |
| 29 | Evidence of low selenium concentrations in UK bread-making wheat grain. <i>Journal of the Science of Food and Agriculture</i> , <b>2002</b> , 82, 1160-1165  | 4.3  | 88  |

|    |  |     |     |
|----|--|-----|-----|
| 28 | Arsenic distribution and speciation in the fronds of the hyperaccumulator <i>Pteris vittata</i> . <i>New Phytologist</i> , <b>2002</b> , 156, 195-203  | 9.8 | 256 |
| 27 | Influence of iron status on cadmium and zinc uptake by different ecotypes of the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Plant Physiology</i> , <b>2002</b> , 128, 1359-67   | 6.6 | 273 |
| 26 | Characteristics of cadmium uptake in two contrasting ecotypes of the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Journal of Experimental Botany</i> , <b>2002</b> , 53, 535-43   | 7   | 281 |
| 25 | Arsenic in field-collected soil solutions and extracts of contaminated soils and its implication to soil standards. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2002</b> , 165, 221  | 2.3 | 74  |
| 24 | Phytoremediation of metals, metalloids, and radionuclides. <i>Advances in Agronomy</i> , <b>2002</b> , 75, 1-56  | 7.7 | 327 |
| 23 | In situ fixation of metals in soils using bauxite residue: chemical assessment. <i>Environmental Pollution</i> , <b>2002</b> , 118, 435-43   | 9.3 | 269 |
| 22 | In situ fixation of metals in soils using bauxite residue: biological effects. <i>Environmental Pollution</i> , <b>2002</b> , 118, 445-52  | 9.3 | 128 |
| 21 | Plant and rhizosphere processes involved in phytoremediation of metal-contaminated soils <b>2002</b> , 207-214   |     | 8   |
| 20 | Phytoextraction of heavy metal contaminated soils with <i>Thlaspi goesingense</i> and <i>Amaranthus hybridus</i> : Rhizosphere manipulation using EDTA and ammonium sulfate. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2001</b> , 164, 615-621 | 2.3 | 84  |
| 19 | Phytoremediation of heavy metal-contaminated soils: natural hyperaccumulation versus chemically enhanced phytoextraction. <i>Journal of Environmental Quality</i> , <b>2001</b> , 30, 1919-26  | 3.4 | 401 |
| 18 | Physiological evidence for a high-affinity cadmium transporter highly expressed in a <i>Thlaspi caerulescens</i> ecotype. <i>New Phytologist</i> , <b>2001</b> , 149, 53-60  | 9.8 | 241 |
| 17 | What's new about cadmium hyperaccumulation?. <i>New Phytologist</i> , <b>2001</b> , 149, 2-3   | 9.8 | 28  |
| 16 | Arsenic fractionation in soils using an improved sequential extraction procedure. <i>Analytica Chimica Acta</i> , <b>2001</b> , 436, 309-323   | 6.6 | 890 |
| 15 | Plant and rhizosphere processes involved in phytoremediation of metal-contaminated soils. <i>Plant and Soil</i> , <b>2001</b> , 232, 207-214   | 4.2 | 365 |
| 14 | Cellular compartmentation of nickel in the hyperaccumulators <i>Alyssum lesbiacum</i> , <i>Alyssum bertolonii</i> and <i>Thlaspi goesingense</i> . <i>Journal of Experimental Botany</i> , <b>2001</b> , 52, 2291-300  | 7   | 297 |
| 13 | Molybdenum sequestration in Brassica species. A role for anthocyanins?. <i>Plant Physiology</i> , <b>2001</b> , 126, 1391-402  | 6.6 | 135 |
| 12 | Leaching of heavy metals from contaminated soils using EDTA. <i>Environmental Pollution</i> , <b>2001</b> , 113, 111-203   | 9.3 | 391 |
| 11 | Cadmium accumulation in populations of <i>Thlaspi caerulescens</i> and <i>Thlaspi goesingense</i> . <i>New Phytologist</i> , <b>2000</b> , 145, 11-20  | 9.8 | 299 |

|    |   |      |     |
|----|---|------|-----|
| 10 | Zinc hyperaccumulation and cellular distribution in <i>Arabidopsis halleri</i> . <i>Plant, Cell and Environment</i> , <b>2000</b> , 23, 507-514   | 8.4  | 278 |
| 9  | Sequentially Extracted Arsenic from Different Size Fractions of Contaminated Soils. <i>Water, Air, and Soil Pollution</i> , <b>2000</b> , 124, 319-332  | 2.6  | 107 |
| 8  | Cellular compartmentation of cadmium and zinc in relation to other elements in the hyperaccumulator <i>Arabidopsis halleri</i> . <i>Planta</i> , <b>2000</b> , 212, 75-84   | 4.7  | 573 |
| 7  | Biogeochemical Processes in the Rhizosphere: Role in Phytoremediation of Metal-Polluted Soils <b>1999</b> , 273-303   |      | 51  |
| 6  | Arsenic adsorption by soils and iron-oxide-coated sand: kinetics and reversibility. <i>Journal of Plant Nutrition and Soil Science</i> , <b>1999</b> , 162, 451-456   | 2.3  | 57  |
| 5  | Determination of mobile heavy metal fraction in soil: Results of a pot experiment with sewage sludge. <i>Communications in Soil Science and Plant Analysis</i> , <b>1998</b> , 29, 2545-2556  | 1.5  | 31  |
| 4  | Mobility of heavy metals in soil and their uptake by sunflowers grown at different contamination levels. <i>Agronomy for Sustainable Development</i> , <b>1998</b> , 18, 361-371  |      | 15  |
| 3  | Heavy metal content and mutagenic activity, evaluated by <i>Vicia faba</i> micronucleus test, of Tiber river sediments. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , <b>1997</b> , 393, 17-21 <sup>3</sup> |      | 43  |
| 2  | Foliar and soil uptake of <sup>134</sup> Cs and <sup>85</sup> Sr by grape vines. <i>Science of the Total Environment</i> , <b>1997</b> , 207, 157-162   | 10.2 | 35  |
| 1  | Probing the nature of soil organic matter. <i>Critical Reviews in Environmental Science and Technology</i> , 1-22   | 11.1 | 4   |