

Enzo Lombi

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243
papers

17,598
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72
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126
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251
ext. papers

19,660
ext. citations

7.2
avg. IF

6.72
L-index

#	Paper	IF	Citations
243	Arsenic fractionation in soils using an improved sequential extraction procedure. <i>Analytica Chimica Acta</i> , 2001 , 436, 309-323	6.6	890
242	Cellular compartmentation of cadmium and zinc in relation to other elements in the hyperaccumulator <i>Arabidopsis halleri</i> . <i>Planta</i> , 2000 , 212, 75-84	4.7	573
241	Nanotechnology: A New Opportunity in Plant Sciences. <i>Trends in Plant Science</i> , 2016 , 21, 699-712	13.1	481
240	Phytoremediation of heavy metal-contaminated soils: natural hyperaccumulation versus chemically enhanced phytoextraction. <i>Journal of Environmental Quality</i> , 2001 , 30, 1919-26	3.4	401
239	Leaching of heavy metals from contaminated soils using EDTA. <i>Environmental Pollution</i> , 2001 , 113, 111-203	3.9	391
238	Plant and rhizosphere processes involved in phytoremediation of metal-contaminated soils. <i>Plant and Soil</i> , 2001 , 232, 207-214	4.2	365
237	Phytoremediation of metals, metalloids, and radionuclides. <i>Advances in Agronomy</i> , 2002 , 75, 1-56	7.7	327
236	Assessing the potential for zinc and cadmium phytoremediation with the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Plant and Soil</i> , 2003 , 249, 37-43	4.2	310
235	Cadmium accumulation in populations of <i>Thlaspi caerulescens</i> and <i>Thlaspi goesingense</i> . <i>New Phytologist</i> , 2000 , 145, 11-20	9.8	299
234	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> , 2001 , 52, 2291-300	7	297
233	Speciation and localization of arsenic in white and brown rice grains. <i>Environmental Science & Technology</i> , 2008 , 42, 1051-7	10.3	284
232	Characteristics of cadmium uptake in two contrasting ecotypes of the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Journal of Experimental Botany</i> , 2002 , 53, 535-43	7	281
231	Zinc hyperaccumulation and cellular distribution in <i>Arabidopsis halleri</i> . <i>Plant, Cell and Environment</i> , 2000 , 23, 507-514	8.4	278
230	Influence of iron status on cadmium and zinc uptake by different ecotypes of the hyperaccumulator <i>Thlaspi caerulescens</i> . <i>Plant Physiology</i> , 2002 , 128, 1359-67	6.6	273
229	In situ fixation of metals in soils using bauxite residue: chemical assessment. <i>Environmental Pollution</i> , 2002 , 118, 435-43	9.3	269
228	Constitutive overexpression of the OsNAS gene family reveals single-gene strategies for effective iron- and zinc-biofortification of rice endosperm. <i>PLoS ONE</i> , 2011 , 6, e24476	3.7	260
227	Arsenic distribution and speciation in the fronds of the hyperaccumulator <i>Pteris vittata</i> . <i>New Phytologist</i> , 2002 , 156, 195-203	9.8	256

226	Field evaluation of Cd and Zn phytoextraction potential by the hyperaccumulators <i>Thlaspi caerulescens</i> and <i>Arabidopsis halleri</i> . <i>Environmental Pollution</i> , 2006 , 141, 115-25	9.3	246
225	Physiological evidence for a high-affinity cadmium transporter highly expressed in a <i>Thlaspi caerulescens</i> ecotype. <i>New Phytologist</i> , 2001 , 149, 53-60	9.8	241
224	Grain unloading of arsenic species in rice. <i>Plant Physiology</i> , 2010 , 152, 309-19	6.6	231
223	Fate of ZnO nanoparticles in soils and cowpea (<i>Vigna unguiculata</i>). <i>Environmental Science & Technology</i> , 2013 , 47, 13822-30	10.3	220
222	Soil and the intensification of agriculture for global food security. <i>Environment International</i> , 2019 , 132, 105078	12.9	217
221	Speciation and distribution of arsenic and localization of nutrients in rice grains. <i>New Phytologist</i> , 2009 , 184, 193-201	9.8	202
220	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> , 2005 , 138, 34-45	9.3	199
219	Synchrotron-based techniques for plant and soil science: opportunities, challenges and future perspectives. <i>Plant and Soil</i> , 2009 , 320, 1-35	4.2	193
218	Biofortified indica rice attains iron and zinc nutrition dietary targets in the field. <i>Scientific Reports</i> , 2016 , 6, 19792	4.9	181
217	Fate of zinc oxide nanoparticles during anaerobic digestion of wastewater and post-treatment processing of sewage sludge. <i>Environmental Science & Technology</i> , 2012 , 46, 9089-96	10.3	175
216	Transformation of four silver/silver chloride nanoparticles during anaerobic treatment of wastewater and post-processing of sewage sludge. <i>Environmental Pollution</i> , 2013 , 176, 193-7	9.3	169
215	Long-term aging of copper added to soils. <i>Environmental Science & Technology</i> , 2006 , 40, 6310-7	10.3	169
214	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 & Technology</i> , 2003 , 37, 979-84	10.3	167
213	Selenium characterization in the global rice supply chain. <i>Environmental Science & Technology</i> , 2009 , 43, 6024-30	10.3	162
212	Nanoparticle Size and Coating Chemistry Control Foliar Uptake Pathways, Translocation, and Leaf-to-Rhizosphere Transport in Wheat. <i>ACS Nano</i> , 2019 , 13, 5291-5305	16.7	151
211	Phloem transport of arsenic species from flag leaf to grain during grain filling. <i>New Phytologist</i> , 2011 , 192, 87-98	9.8	146
210	Identification of the primary lesion of toxic aluminum in plant roots. <i>Plant Physiology</i> , 2015 , 167, 1402-116.6	11.6	145
209	Molybdenum sequestration in Brassica species. A role for anthocyanins?. <i>Plant Physiology</i> , 2001 , 126, 1391-402	6.6	135

208	In situ fixation of metals in soils using bauxite residue: biological effects. <i>Environmental Pollution</i> , 2002 , 118, 445-52	9.3	128
207	Speciation of metal(loid)s in environmental samples by X-ray absorption spectroscopy: a critical review. <i>Analytica Chimica Acta</i> , 2014 , 822, 1-22	6.6	127
206	Kinetics of Zn release in soils and prediction of Zn concentration in plants using diffusive gradients in thin films. <i>Environmental Science & Technology</i> , 2004 , 38, 3608-13	10.3	126
205	Hair analysis as a biomonitor for toxicology, disease and health status. <i>Chemical Society Reviews</i> , 2011 , 40, 3915-40	58.5	124
204	Elemental imaging at the nanoscale: NanoSIMS and complementary techniques for element localisation in plants. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 3263-73	4.4	121
203	In situ analysis of metal(loid)s in plants: State of the art and artefacts. <i>Environmental and Experimental Botany</i> , 2011 , 72, 3-17	5.9	120
202	Maia X-ray fluorescence imaging: Capturing detail in complex natural samples. <i>Journal of Physics: Conference Series</i> , 2014 , 499, 012002	0.3	119
201	Uptake and distribution of nickel and other metals in the hyperaccumulator <i>Berkheya coddii</i> . <i>New Phytologist</i> , 2003 , 158, 279-285	9.8	119
200	In situ distribution and speciation of toxic copper, nickel, and zinc in hydrated roots of cowpea. <i>Plant Physiology</i> , 2011 , 156, 663-73	6.6	118
199	NanoSIMS analysis of arsenic and selenium in cereal grain. <i>New Phytologist</i> , 2010 , 185, 434-45	9.8	115
198	Imaging element distribution and speciation in plant cells. <i>Trends in Plant Science</i> , 2014 , 19, 183-92	13.1	113
197	Megapixel imaging of (micro)nutrients in mature barley grains. <i>Journal of Experimental Botany</i> , 2011 , 62, 273-82	7	113
196	The use of DGT for prediction of plant available copper, zinc and phosphorus in agricultural soils. <i>Plant and Soil</i> , 2011 , 346, 167-180	4.2	110
195	Sequentially Extracted Arsenic from Different Size Fractions of Contaminated Soils. <i>Water, Air, and Soil Pollution</i> , 2000 , 124, 319-332	2.6	107
194	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
193	Metal Bioaccumulation and Toxicity in Soils—Why Bother with Speciation?. <i>Australian Journal of Chemistry</i> , 2003 , 56, 77	1.2	99
192	Impact of Surface Charge on Cerium Oxide Nanoparticle Uptake and Translocation by Wheat (<i>Triticum aestivum</i>). <i>Environmental Science & Technology</i> , 2017 , 51, 7361-7368	10.3	97
191	Short-term natural attenuation of copper in soils: effects of time, temperature, and soil characteristics. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 652-8	3.8	92

190	In vivo synchrotron study of thallium speciation and compartmentation in Iberis intermedia. <i>Environmental Science & Technology</i> , 2004 , 38, 5095-100	10.3	92
189	Changes of Ni biogeochemistry in the rhizosphere of the hyperaccumulator <i>Thlaspi goesingense</i> . <i>Plant and Soil</i> , 2005 , 271, 205-218	4.2	89
188	Speciation and lability of Ag-, AgCl-, and Ag ₂ S-nanoparticles in soil determined by X-ray absorption spectroscopy and diffusive gradients in thin films. <i>Environmental Science & Technology</i> , 2015 , 49, 897-905	10.3	88
187	Evidence of low selenium concentrations in UK bread-making wheat grain. <i>Journal of the Science of Food and Agriculture</i> , 2002 , 82, 1160-1165	4.3	88
186	Silver speciation and release in commercial antimicrobial textiles as influenced by washing. <i>Chemosphere</i> , 2014 , 111, 352-8	8.4	87
185	Speciation and Distribution of Phosphorus in a Fertilized Soil. <i>Soil Science Society of America Journal</i> , 2006 , 70, 2038-2048	2.5	87
184	Immobilization of heavy metals in soils using inorganic amendments in a greenhouse study. <i>Journal of Plant Nutrition and Soil Science</i> , 2003 , 166, 191-196	2.3	86
183	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> , 2003 , 250, 183-191	4.2	86
182	Fate of zinc and silver engineered nanoparticles in sewerage networks. <i>Water Research</i> , 2015 , 77, 72-84	12.5	84
181	Trends in hard X-ray fluorescence mapping: environmental applications in the age of fast detectors. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 1637-44	4.4	84
180	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> , 2001 , 164, 615-621	2.3	84
179	Synchrotron-Based X-Ray Fluorescence Microscopy as a Technique for Imaging of Elements in Plants. <i>Plant Physiology</i> , 2018 , 178, 507-523	6.6	82
178	Fast x-ray fluorescence microtomography of hydrated biological samples. <i>PLoS ONE</i> , 2011 , 6, e20626	3.7	81
177	Silver sulfide nanoparticles (Ag ₂ S-NPs) are taken up by plants and are phytotoxic. <i>Nanotoxicology</i> , 2015 , 9, 1041-9	5.3	80
176	Assessment of the use of industrial by-products to remediate a copper- and arsenic-contaminated soil. <i>Journal of Environmental Quality</i> , 2004 , 33, 902-10	3.4	79
175	Critical review perspective: elemental speciation analysis methods in environmental chemistry - moving towards methodological integration. <i>Environmental Chemistry</i> , 2009 , 6, 275	3.2	76
174	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 & Technology</i> , 2016 , 50, 8274-81	10.3	75
173	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> , 2002 , 165, 221	2.3	74

172	A review of recent developments in the speciation and location of arsenic and selenium in rice grain. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 3275-86	4.4	73
171	Laterally resolved speciation of arsenic in roots of wheat and rice using fluorescence-XANES imaging. <i>New Phytologist</i> , 2014 , 201, 1251-1262	9.8	69
170	Mobility and Lability of Phosphorus from Granular and Fluid Monoammonium Phosphate Differs in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2004 , 68, 682-689	2.5	68
169	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , 2017 , 4, 448-460	7.1	66
168	Probabilistic modelling of engineered nanomaterial emissions to the environment: a spatio-temporal approach. <i>Environmental Science: Nano</i> , 2015 , 2, 340-351	7.1	65
167	X-ray absorption and micro X-ray fluorescence spectroscopy investigation of copper and zinc speciation in biosolids. <i>Environmental Science & Technology</i> , 2011 , 45, 7249-57	10.3	65
166	A One Health approach to managing the applications and implications of nanotechnologies in agriculture. <i>Nature Nanotechnology</i> , 2019 , 14, 523-531	28.7	64
165	Analytical characterisation of nanoscale zero-valent iron: A methodological review. <i>Analytica Chimica Acta</i> , 2016 , 903, 13-35	6.6	63
164	Bridging the divide between human and environmental nanotoxicology. <i>Nature Nanotechnology</i> , 2015 , 10, 835-44	28.7	62
163	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> , 2018 , 627, 942-950	10.2	61
162	Measurement of inorganic arsenic species in rice after nitric acid extraction by HPLC-ICPMS: verification using XANES. <i>Environmental Science & Technology</i> , 2013 , 47, 5821-7	10.3	60
161	In vivo formation of natural HgSe nanoparticles in the liver and brain of pilot whales. <i>Scientific Reports</i> , 2016 , 6, 34361	4.9	59
160	Grain accumulation of selenium species in rice (<i>Oryza sativa</i> L.). <i>Environmental Science & Technology</i> , 2012 , 46, 5557-64	10.3	59
159	Comparison of toxicity of zinc for soil microbial processes between laboratory-contaminated and polluted field soils. <i>Environmental Toxicology and Chemistry</i> , 2003 , 22, 2592-8	3.8	58
158	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> , 2017 , 169, 377-386	8.4	57
157	Arsenic adsorption by soils and iron-oxide-coated sand: kinetics and reversibility. <i>Journal of Plant Nutrition and Soil Science</i> , 1999 , 162, 451-456	2.3	57
156	Foliar application of zinc sulphate and zinc EDTA to wheat leaves: differences in mobility, distribution, and speciation. <i>Journal of Experimental Botany</i> , 2018 , 69, 4469-4481	7	56
155	Coupling speciation and isotope dilution techniques to study arsenic mobilization in the environment. <i>Environmental Science & Technology</i> , 2004 , 38, 1794-8	10.3	55

154	Absorption of foliar-applied Zn fertilizers by trichomes in soybean and tomato. <i>Journal of Experimental Botany</i> , 2018 , 69, 2717-2729	7	54
153	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> , 2014 , 59, 173-180	3.8	54
152	Functional characterisation of metal(loid) processes in planta through the integration of synchrotron techniques and plant molecular biology. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 402, 3287-98	4.4	54
151	Nanomaterials as fertilizers for improving plant mineral nutrition and environmental outcomes. <i>Environmental Science: Nano</i> , 2019 , 6, 3513-3524	7.1	54
150	Fate and lability of silver in soils: effect of ageing. <i>Environmental Pollution</i> , 2014 , 191, 151-7	9.3	53
149	Aggregation behaviour of engineered nanoparticles in natural waters: characterising aggregate structure using on-line laser light scattering. <i>Journal of Hazardous Materials</i> , 2015 , 284, 190-200	12.8	52
148	Biogeochemical Processes in the Rhizosphere: Role in Phytoremediation of Metal-Polluted Soils 1999 , 273-303		51
147	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> , 2016 , 39, 1835-47	8.4	51
146	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> , 2017 , 46, 1198-1205	3.4	49
145	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> , 2012 , 56, 307-315	3.8	49
144	Absorption of foliar-applied Zn in sunflower (<i>Helianthus annuus</i>): importance of the cuticle, stomata and trichomes. <i>Annals of Botany</i> , 2019 , 123, 57-68	4.1	48
143	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
142	Accumulation and distribution of aluminium and other elements in tea (<i>Camellia sinensis</i>) leaves. <i>Agronomy for Sustainable Development</i> , 2003 , 23, 705-710		48
141	Changes in soil bacterial communities and diversity in response to long-term silver exposure. <i>FEMS Microbiology Ecology</i> , 2015 , 91,	4.3	47
140	Speciation mapping of environmental samples using XANES imaging. <i>Environmental Chemistry</i> , 2014 , 11, 341	3.2	45
139	Responsiveness of wheat (<i>Triticum aestivum</i>) to liquid and granular phosphorus fertilisers in southern Australian soils. <i>Soil Research</i> , 2005 , 43, 203	1.8	45
138	Effect of water treatment residuals on soil phosphorus, copper and aluminium availability and toxicity. <i>Environmental Pollution</i> , 2010 , 158, 2110-6	9.3	44
137	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> , 1997 , 393, 17-21 ³		43

136	Synchrotron X-ray absorption-edge computed microtomography imaging of thallium compartmentalization in <i>Iberis intermedia</i> . <i>Plant and Soil</i> , 2007 , 290, 51-60	4.2	43
135	Metabolic engineering of bread wheat improves grain iron concentration and bioavailability. <i>Plant Biotechnology Journal</i> , 2019 , 17, 1514-1526	11.6	43
134	Aging of nickel added to soils as predicted by soil pH and time. <i>Chemosphere</i> , 2013 , 92, 962-8	8.4	42
133	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> , 2004 , 19, 757-761	3.7	42
132	Quantifying the adsorption of ionic silver and functionalized nanoparticles during ecotoxicity testing: Test container effects and recommendations. <i>Nanotoxicology</i> , 2015 , 9, 1005-12	5.3	41
131	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 & Technology</i> , 2016 , 50, 5790-9	10.3	41
130	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> , 2014 , 214-215, 204-212	6.7	39
129	Synchrotron-Based Techniques Shed Light on Mechanisms of Plant Sensitivity and Tolerance to High Manganese in the Root Environment. <i>Plant Physiology</i> , 2015 , 169, 2006-20	6.6	39
128	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> , 2015 , 63, 1276-1285	5.7	39
127	Examination of the distribution of arsenic in hydrated and fresh cowpea roots using two- and three-dimensional techniques. <i>Plant Physiology</i> , 2012 , 159, 1149-58	6.6	39
126	Chapter 6 Advances in Isotopic Dilution Techniques in Trace Element Research. <i>Advances in Agronomy</i> , 2008 , 99, 289-343	7.7	39
125	Measurement of labile Cu in soil using stable isotope dilution and isotope ratio analysis by ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2004 , 380, 789-97	4.4	39
124	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> , 2005 , 269, 25-34	4.2	39
123	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
122	Polyphosphate-fertilizer solution stability with time, temperature, and pH. <i>Journal of Plant Nutrition and Soil Science</i> , 2007 , 170, 387-391	2.3	38
121	Complementary Imaging of Silver Nanoparticle Interactions with Green Algae: Dark-Field Microscopy, Electron Microscopy, and Nanoscale Secondary Ion Mass Spectrometry. <i>ACS Nano</i> , 2017 , 11, 10894-10902	16.7	37
120	Assessing the aggregation behaviour of iron oxide nanoparticles under relevant environmental conditions using a multi-method approach. <i>Water Research</i> , 2013 , 47, 4585-99	12.5	37
119	Sulfur-Containing Chitin and Chitosan Derivatives as Trace Metal Adsorbents: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2013 , 43, 1741-1794	11.1	36

118	XANES Demonstrates the Release of Calcium Phosphates from Alkaline Vertisols to Moderately Acidified Solution. <i>Environmental Science & Technology</i> , 2016 , 50, 4229-37	10.3	36
117	Synchrotron-based X-Ray Approaches for Examining Toxic Trace Metal(loid)s in Soil-Plant Systems. <i>Journal of Environmental Quality</i> , 2017 , 46, 1175-1189	3-4	35
116	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> , 2015 , 66, 4795-806	7	35
115	Mechanistic insights of 2,4-D sorption onto biochar: Influence of feedstock materials and biochar properties. <i>Bioresource Technology</i> , 2017 , 246, 160-167	11	35
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> , 2013 , 463-464, 131-9	10.2	35
113	Foliar and soil uptake of ¹³⁴ Cs and ⁸⁵ Sr by grape vines. <i>Science of the Total Environment</i> , 1997 , 207, 157-164	10.2	35
112	In situ chemical transformations of silver nanoparticles along the water-sediment continuum. <i>Environmental Science & Technology</i> , 2015 , 49, 318-25	10.3	33
111	Density Changes around Phosphorus Granules and Fluid Bands in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2006 , 70, 960-966	2.5	33
110	Use of municipal solid wastes for chemical and microbiological recovery of soils contaminated with metal(loid)s. <i>Soil Biology and Biochemistry</i> , 2017 , 111, 25-35	7.5	32
109	The availability of copper in soils historically amended with sewage sludge, manure, and compost. <i>Journal of Environmental Quality</i> , 2012 , 41, 506-14	3.4	31
108	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> , 1998 , 29, 2545-2556	1.5	31
107	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> , 2019 , 697, 134114	10.2	28
106	In Situ Fixation of Metal(loid)s in Contaminated Soils: A Comparison of Conventional, Opportunistic, and Engineered Soil Amendments. <i>Environmental Science & Technology</i> , 2015 , 49, 13501-9	10.3	28
105	Synthesis and Characterization of Thiolated Chitosan Beads for Removal of Cu(II) and Cd(II) from Wastewater. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	28
104	What's new about cadmium hyperaccumulation?. <i>New Phytologist</i> , 2001 , 149, 2-3	9.8	28
103	Temporal Evolution of Copper Distribution and Speciation in Roots of <i>Triticum aestivum</i> Exposed to CuO, Cu(OH), and CuS Nanoparticles. <i>Environmental Science & Technology</i> , 2018 , 52, 9777-9784	10.3	27
102	Tolerance of nitrifying bacteria to copper and nickel. <i>Environmental Toxicology and Chemistry</i> , 2006 , 25, 2000-5	3.8	27
101	Surface immobilization of engineered nanomaterials for in situ study of their environmental transformations and fate. <i>Environmental Science & Technology</i> , 2013 , 47, 9308-16	10.3	26

100	Assessing the plant availability of manganese in soils using Diffusive Gradients in Thin films (DGT). <i>Geoderma</i> , 2012 , 183-184, 92-99	6.7	26
99	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 & Technology</i> , 2012 , 46, 10564-71	10.3	26
98	Hydrolysis of Pyrophosphate in a Highly Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2006 , 70, 856-862	2.5	26
97	Effect of toxic cations on copper rhizotoxicity in wheat seedlings. <i>Environmental Toxicology and Chemistry</i> , 2005 , 24, 372-8	3.8	25
96	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> , 2017 , 180, 594-601	2.3	24
95	Speciation and isotopic exchangeability of nickel in soil solution. <i>Journal of Environmental Quality</i> , 2009 , 38, 485-92	3.4	24
94	Manganese Toxicity in Barley is Controlled by Solution Manganese and Soil Manganese Speciation. <i>Soil Science Society of America Journal</i> , 2012 , 76, 399-407	2.5	24
93	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 & Technology</i> , 2006 , 40, 3342-8	10.3	24
92	Unraveling the Complex Behavior of AgNPs Driving NP-Cell Interactions and Toxicity to Algal Cells. <i>Environmental Science & Technology</i> , 2016 , 50, 12455-12463	10.3	24
91	The rhizotoxicity of metal cations is related to their strength of binding to hard ligands. <i>Environmental Toxicology and Chemistry</i> , 2014 , 33, 268-77	3.8	23
90	Effects of methyl jasmonate on plant growth and leaf properties. <i>Journal of Plant Nutrition and Soil Science</i> , 2018 , 181, 409-418	2.3	22
89	Single Cell Level Quantification of Nanoparticle-Cell Interactions Using Mass Cytometry. <i>Analytical Chemistry</i> , 2017 , 89, 8228-8232	7.8	21
88	Effects of changes in leaf properties mediated by methyl jasmonate (MeJA) on foliar absorption of Zn, Mn and Fe. <i>Annals of Botany</i> , 2017 , 120, 405-415	4.1	21
87	Advanced in situ spectroscopic techniques and their applications in environmental biogeochemistry: introduction to the special section. <i>Journal of Environmental Quality</i> , 2011 , 40, 659-66	3.4	21
86	Complete transformation of ZnO and CuO nanoparticles in culture medium and lymphocyte cells during toxicity testing. <i>Nanotoxicology</i> , 2017 , 11, 150-156	5.3	20
85	Methodologies and approaches for the analysis of cell-nanoparticle interactions. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2018 , 10, e1486	9.2	20
84	Determination of labile Cu in soils and isotopic exchangeability of colloidal Cu complexes. <i>European Journal of Soil Science</i> , 2006 , 57, 147-153	3.4	20
83	Effects of chemical amendments on the lability and speciation of metals in anaerobically digested biosolids. <i>Environmental Science & Technology</i> , 2013 , 47, 11157-65	10.3	19

82	Distribution and speciation of Mn in hydrated roots of cowpea at levels inhibiting root growth. <i>Physiologia Plantarum</i> , 2013 , 147, 453-64	4.6	19
81	Evidence for Different Reaction Pathways for Liquid and Granular Micronutrients in a Calcareous Soil. <i>Soil Science Society of America Journal</i> , 2008 , 72, 98-110	2.5	19
80	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> , 2016 , 216, 636-645	9.3	19
79	Engineered silver nanoparticles in terrestrial environments: a meta-analysis shows that the overall environmental risk is small. <i>Environmental Science: Nano</i> , 2018 , 5, 2531-2544	7.1	19
78	Application of MicroResp [®] for soil ecotoxicology. <i>Environmental Pollution</i> , 2013 , 179, 177-84	9.3	18
77	Chemical Speciation and Distribution of Cadmium in Rice Grain and Implications for Bioavailability to Humans. <i>Environmental Science & Technology</i> , 2020 , 54, 12072-12080	10.3	18
76	Cellular binding, uptake and biotransformation of silver nanoparticles in human T lymphocytes. <i>Nature Nanotechnology</i> , 2021 , 16, 926-932	28.7	18
75	Selenopeptides and elemental selenium in <i>Thunbergia alata</i> after exposure to selenite: quantification method for elemental selenium. <i>Metallomics</i> , 2015 , 7, 1056-66	4.5	17
74	Can earthworm-secreted calcium carbonate immobilise Zn in contaminated soils?. <i>Soil Biology and Biochemistry</i> , 2014 , 74, 1-10	7.5	17
73	Assessing the contributions of lateral roots to element uptake in rice using an auxin-related lateral root mutant. <i>Plant and Soil</i> , 2013 , 372, 125-136	4.2	17
72	In situ speciation and distribution of toxic selenium in hydrated roots of cowpea. <i>Plant Physiology</i> , 2013 , 163, 407-18	6.6	17
71	Quantitative multimodal analyses of silver nanoparticle-cell interactions: Implications for cytotoxicity. <i>NanoImpact</i> , 2016 , 1, 29-38	5.6	17
70	Sorption of silver nanoparticles to laboratory plastic during (eco)toxicological testing. <i>Nanotoxicology</i> , 2016 , 10, 385-90	5.3	16
69	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
68	Crossed flow microfluidics for high throughput screening of bioactive chemical-cell interactions. <i>Lab on A Chip</i> , 2017 , 17, 501-510	7.2	15
67	Methods to Visualize Elements in Plants. <i>Plant Physiology</i> , 2020 , 182, 1869-1882	6.6	15
66	Microfluidic Cell Microarray Platform for High Throughput Analysis of Particle-Cell Interactions. <i>Analytical Chemistry</i> , 2018 , 90, 4338-4347	7.8	15
65	, and Spectroscopic Assessment of Lead Exposure Reduction via Ingestion and Inhalation Pathways Using Phosphate and Iron Amendments. <i>Environmental Science & Technology</i> , 2019 , 53, 10329-10341	10.3	15

64	The Use of Microfluidics in Cytotoxicity and Nanotoxicity Experiments. <i>Micromachines</i> , 2017 , 8, 124	3.3	15
63	Characterizing the uptake, accumulation and toxicity of silver sulfide nanoparticles in plants. <i>Environmental Science: Nano</i> , 2017 , 4, 448-460	7.1	15
62	Mobility of heavy metals in soil and their uptake by sunflowers grown at different contamination levels. <i>Agronomy for Sustainable Development</i> , 1998 , 18, 361-371		15
61	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> , 2016 , 23, 1050-9	5.1	14
60	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> , 2012 , 9, 462	3.2	14
59	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> , 2021 , 770, 145354	10.2	14
58	Chemical behavior of fluid and granular Mn and Zn fertilisers in alkaline soils. <i>Soil Research</i> , 2010 , 48, 238	1.8	13
57	Disinfection options for irrigation water: Reducing the risk of fresh produce contamination with human pathogens. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 50, 2144-2174	11.1	13
56	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> , 2020 , 68, 7571-7580	5.7	13
55	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> , 2020 , 196, 110576	7	13
54	Metalloids, soil chemistry and the environment. <i>Advances in Experimental Medicine and Biology</i> , 2010 , 679, 33-44	3.6	13
53	Investigating the foliar uptake of zinc from conventional and nano-formulations: a methodological study. <i>Environmental Chemistry</i> , 2019 , 16, 459	3.2	12
52	A new method for determination of potassium in soils using diffusive gradients in thin films (DGT). <i>Environmental Chemistry</i> , 2012 , 9, 14	3.2	12
51	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> , 2018 , 433, 309-322	4.2	12
50	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 & Technology</i> , 2019 , 53, 11486-11495	10.3	11
49	Root and Rhizosphere Processes in Metal Hyperaccumulation and Phytoremediation Technology 2004 , 313-344		11
48	Pyrophosphate and orthophosphate addition to soils: sorption, cation concentrations, and dissolved organic carbon. <i>Soil Research</i> , 2007 , 45, 237	1.8	11
47	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> , 2020 , 749, 142369	10.2	11

46	Optimising the foliar uptake of zinc oxide nanoparticles: Do leaf surface properties and particle coating affect absorption?. <i>Physiologia Plantarum</i> , 2020 , 170, 384-397	4.6	11
45	Exchangeability of orthophosphate and pyrophosphate in soils: a double isotopic labelling study. <i>Plant and Soil</i> , 2009 , 314, 243-252	4.2	10
44	Optimization of binding B-lymphocytes in a microfluidic channel: surface modification, stasis time and shear response. <i>Biofabrication</i> , 2017 , 10, 014101	10.5	10
43	Silver Toxicity Thresholds for Multiple Soil Microbial Biomarkers. <i>Environmental Science & Technology</i> , 2018 , 52, 8745-8755	10.3	10
42	Combining diffusive gradients in thin films (DGT) and spectroscopic techniques for the determination of phosphorus species in soils. <i>Analytica Chimica Acta</i> , 2019 , 1057, 80-87	6.6	9
41	Synchrotron X-ray spectroscopy for investigating vanadium speciation in marine sediment: limitations and opportunities. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 1689-1699	3.7	9
40	Assessing plant-available glyphosate in contrasting soils by diffusive gradient in thin-films technique (DGT). <i>Science of the Total Environment</i> , 2019 , 646, 735-744	10.2	9
39	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> , 2015 , 159, 135-142	7.9	9
38	Comparative antibacterial activities of neutral electrolyzed oxidizing water and other chlorine-based sanitizers. <i>Scientific Reports</i> , 2019 , 9, 19955	4.9	9
37	Bioimaging Techniques Reveal Foliar Phosphate Uptake Pathways and Leaf Phosphorus Status. <i>Plant Physiology</i> , 2020 , 183, 1472-1483	6.6	8
36	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> , 2013 , 10, 341	3.2	8
35	Applicability of diffusive gradients in thin films for measuring Mn in soils and freshwater sediments. <i>Analytical Chemistry</i> , 2011 , 83, 8984-91	7.8	8
34	Plant and rhizosphere processes involved in phytoremediation of metal-contaminated soils 2002 , 207-214		8
33	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> , 2016 , 141, 3657-67	5	8
32	Chemical characterisation, antibacterial activity, and (nano)silver transformation of commercial personal care products exposed to household greywater. <i>Environmental Science: Nano</i> , 2019 , 6, 3027-3028 ¹	7.8 ¹	7
31	Microelemental characterisation of Aboriginal Australian natural Fe oxide pigments. <i>Analytical Methods</i> , 2015 , 7, 7363-7380	3.2	7
30	Reactive gaseous mercury is generated from chloralkali factories resulting in extreme concentrations of mercury in hair of workers. <i>Scientific Reports</i> , 2018 , 8, 3675	4.9	7
29	Mapping element distributions in plant tissues using synchrotron X-ray fluorescence techniques. <i>Methods in Molecular Biology</i> , 2013 , 953, 143-59	1.4	7

28	Isotopic Exchangeability, Hydrolysis and Mobilization Reactions of Pyrophosphate in Soil. <i>Soil Science Society of America Journal</i> , 2008 , 72, 1337-1343	2.5	6
27	Zinc Speciation in Organic Waste Drives Its Fate in Amended Soils. <i>Environmental Science & Technology</i> , 2020 , 54, 12034-12041	10.3	6
26	Risk assessment on-a-chip: a cell-based microfluidic device for immunotoxicity screening. <i>Nanoscale Advances</i> , 2021 , 3, 682-691	5.1	6
25	Understanding the interaction of gold and silver nanoparticles with natural organic matter using affinity capillary electrophoresis. <i>Environmental Science: Nano</i> , 2019 , 6, 1351-1362	7.1	5
24	Non-glandular trichomes of sunflower are important in the absorption and translocation of foliar-applied Zn. <i>Journal of Experimental Botany</i> , 2021 , 72, 5079-5092	7	5
23	Use of X-ray tomography for examining root architecture in soils. <i>Geoderma</i> , 2022 , 405, 115405	6.7	5
22	Transformation of Calcium Phosphates in Alkaline Vertisols by Acidified Incubation. <i>Environmental Science & Technology</i> , 2019 , 53, 10131-10138	10.3	4
21	Characterising the exchangeability of phenanthrene associated with naturally occurring soil colloids using an isotopic dilution technique. <i>Environmental Pollution</i> , 2015 , 199, 244-52	9.3	4
20	Hard X-ray synchrotron biogeochemistry: piecing together the increasingly detailed puzzle. <i>Environmental Chemistry</i> , 2014 , 11, 1	3.2	4
19	Polyphosphate Speciation for Soil and Fertilizer Analysis. <i>Communications in Soil Science and Plant Analysis</i> , 2007 , 38, 2445-2460	1.5	4
18	Probing the nature of soil organic matter. <i>Critical Reviews in Environmental Science and Technology</i> , 1-22	11.1	4
17	Multiparameter toxicity screening on a chip: Effects of UV radiation and titanium dioxide nanoparticles on HaCaT cells. <i>Biomicrofluidics</i> , 2019 , 13, 044112	3.2	3
16	Pesticide effects on nitrogen cycle related microbial functions and community composition. <i>Science of the Total Environment</i> , 2022 , 807, 150734	10.2	3
15	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> , 2016 , 116, 41-48	2.5	3
14	Neutral electrolyzed oxidizing water is effective for pre-harvest decontamination of fresh produce. <i>Food Microbiology</i> , 2021 , 93, 103610	6	3
13	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> , 2016 , 88, 12419-12426	7.8	2
12	Development and evaluation of a new colorimetric DGT technique for the 2D visualisation of labile phosphate in soils. <i>Chemosphere</i> , 2021 , 269, 128704	8.4	2
11	Phosphorus speciation in the fertosphere of highly concentrated fertilizer bands. <i>Geoderma</i> , 2021 , 403, 115208	6.7	2

10	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> , 2008 , 99-136	1.3	1
9	Methods for assessing laterally-resolved distribution, speciation and bioavailability of phosphorus in soils. <i>Reviews in Environmental Science and Biotechnology</i> , 2022 , 21, 53-74	13.9	1
8	Unraveling microbiomes and functions associated with strategic tillage, stubble, and fertilizer management. <i>Agriculture, Ecosystems and Environment</i> , 2022 , 323, 107686	5.7	1
7	Zinc Accumulates in the Nodes of Wheat Following the Foliar Application of Zn Oxide Nano- and Microparticles. <i>Environmental Science & Technology</i> , 2021 , 55, 13523-13531	10.3	1
6	Synchrotron-Based Imaging Reveals the Fate of Selenium in Striped Marsh Frog Tadpoles. <i>Environmental Science & Technology</i> , 2021 , 55, 11848-11858	10.3	0
5	Translocation of Foliar Absorbed Zn in Sunflower () Leaves.. <i>Frontiers in Plant Science</i> , 2022 , 13, 757048	6.2	0
4	Remediation of Site Contamination. <i>Water, Air, and Soil Pollution</i> , 2013 , 224, 1	2.6	
3	Model development for simulating the bioavailability of Ni to the hyperaccumulator <i>Thlaspi goesingense</i> 2005 , 391-418		
2	Natural Attenuation 2006 , 173-195		
1	Biological Assessment of Natural Attenuation of Metals in Soil 2006 , 41-56		