Erik Smolders

List of Publications by Year
in descending order

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316 papers	14,018 citations	17429 63 h-index	33869 99 g-index
323 all docs	323 docs citations	323 times ranked	12791 citing authors

#	Article	IF	Citations
1	Inputs of trace elements in agricultural soils via phosphate fertilizers in European countries. Science of the Total Environment, 2008, 390, 53-57.	3.9	353
2	Toxicity of Trace Metals in Soil as Affected by Soil Type and Aging After Contamination: Using Calibrated Bioavailability Models to Set Ecological Soil Standards. Environmental Toxicology and Chemistry, 2009, 28, 1633-1642.	2.2	333
3	Partitioning of metals (Cd, Co, Cu, Ni, Pb, Zn) in soils: concepts, methodologies, prediction and applications â€“ a review. European Journal of Soil Science, 2009, 60, 590-612.	1.8	313
4	Sustainability of artisanal mining of cobalt in DR Congo. Nature Sustainability, 2018, 1, 495-504.	11.5	289
5	Nitrogen availability influences phosphorus removal in microalgae-based wastewater treatment. Water Research, 2015, 77, 98-106.	5.3	261
6	Acute Toxicity and Prothrombotic Effects of Quantum Dots: Impact of Surface Charge. Environmental Health Perspectives, 2008, 116, 1607-1613.	2.8	248
7	The Red Mud Accident in Ajka (Hungary): Plant Toxicity and Trace Metal Bioavailability in Red Mud Contaminated Soil. Environmental Science & Technology, 2011, 45, 1616-1622.	4.6	232
8	Biodegradation: Updating the Concepts of Control for Microbial Cleanup in Contaminated Aquifers. Environmental Science & Technology, 2015, 49, 7073-7081.	4.6	211
9	High human exposure to cobalt and other metals in Katanga, a mining area of the Democratic Republic of Congo. Environmental Research, 2009, 109, 745-752.	3.7	210
10	Predicting availability of mineral elements to plants with the DGT technique: a review of experimental data and interpretation by modelling. Environmental Chemistry, 2009, 6, 198.	0.7	210
11	Fate and Effect of Zinc from Tire Debris in Soil. Environmental Science & Technology, 2002, 36, 3706-3710.	4.6	203
12	Metal Complexation Properties of Freshwater Dissolved Organic Matter Are Explained by Its Aromaticity and by Anthropogenic Ligands. Environmental Science & Technology, 2011, 45, 2584-2590.	4.6	188
13	Concentrations of137Cs and K in Soil Solution Predict the Plant Availability of137Cs in Soils. Environmental Science & Technology, 1997, 31, 3432-3438.	4.6	169
14	Terrestrial Biotic Ligand Model. 2. Application to Ni and Cu Toxicities to Plants, Invertebrates, and Microbes in Soil. Environmental Science & Technology, 2006, 40, 7094-7100.	4.6	164
15	Phosphate-Exchanged Mgâ€“Al Layered Double Hydroxides: A New Slow Release Phosphate Fertilizer. ACS Sustainable Chemistry and Engineering, 2016, 4, 4280-4287.	3.2	160
16	SOIL PROPERTIES AFFECTING TOXICITY OF ZINC TO SOIL MICROBIAL PROPERTIES IN LABORATORY-SPIKED AND FIELD-CONTAMINATED SOILS. Environmental Toxicology and Chemistry, 2004, 23, 2633.	2.2	159
17	Chloride Increases Cadmium Uptake in Swiss Chard in a Resinâ€buffered Nutrient Solution. Soil Science Society of America Journal, 1996, 60, 1443-1447.	1.2	157
18	Labile Cd Complexes Increase Cd Availability to Plants. Environmental Science & Technology, 2006, 40, 830-836.	4.6	157

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19	Bacteria, not archaea, restore nitrification in a zinc-contaminated soil. ISME Journal, 2009, 3, 916-923.	4.4	138
20	Kinetics of Zn Release in Soils and Prediction of Zn Concentration in Plants Using Diffusive Gradients in Thin Films. Environmental Science & Technology, 2004, 38, 3608-3613.	4.6	137
21	Effect of Soil Solution Chloride on Cadmium Availability to Swiss Chard. Journal of Environmental Quality, 1998, 27, 426-431.	1.0	135
22	Cadmium Fixation in Soils Measured by Isotopic Dilution. Soil Science Society of America Journal, 1999, 63, 78-85.	1.2	125
23	SOIL PROPERTIES AFFECTING THE TOXICITY OF CuCl2 AND NiCl2 FOR SOIL MICROBIAL PROCESSES IN FRESHLY SPIKED SOILS. Environmental Toxicology and Chemistry, 2006, 25, 836.	2.2	124
24	Solubility and Toxicity of Antimony Trioxide (Sb₂O₃) in Soil. Environmental Science & Technology, 2008, 42, 4378-4383.	4.6	118
25	Potential nitrification rate as a tool for screening toxicity in metalâ€contaminated soils. Environmental Toxicology and Chemistry, 2001, 20, 2469-2474.	2.2	116
26	Predicting Soil to Plant Transfer of Radiocesium Using Soil Characteristics. Environmental Science & Technology, 1999, 33, 1218-1223.	4.6	115
27	Copper toxicity in soils under established vineyards in Europe: A survey. Science of the Total Environment, 2013, 443, 470-477.	3.9	114
28	Effect of Cl on Cd uptake by Swiss chard in nutrient solutions. Plant and Soil, 1996, 179, 57-64.	1.8	109
29	Soil properties and agronomic factors affecting cadmium concentrations in cacao beans: A nationwide survey in Ecuador. Science of the Total Environment, 2019, 649, 120-127.	3.9	108
30	Tracing the source and fate of dissolved organic matter in soil after incorporation of a 13C labelled residue: A batch incubation study. Soil Biology and Biochemistry, 2011, 43, 513-519.	4.2	106
31	Soil solution concentration of Cd and Zn canbe predicted with a CaCl2 soil extract. European Journal of Soil Science, 2003, 54, 149-158.	1.8	97
32	TOXICITY OF HEAVY METALS IN SOIL ASSESSED WITH VARIOUS SOIL MICROBIAL AND PLANT GROWTH ASSAYS: A COMPARATIVE STUDY. Environmental Toxicology and Chemistry, 2005, 24, 634.	2.2	95
33	Leaching and aging decrease nickel toxicity to soil microbial processes in soils freshly spiked with nickel chloride. Environmental Toxicology and Chemistry, 2007, 26, 1130-1138.	2.2	95
34	The Copper-Mobilizing-Potential of Dissolved Organic Matter in Soils Varies 10-Fold Depending on Soil Incubation and Extraction Procedures. Environmental Science & Technology, 2007, 41, 2277-2281.	4.6	94
35	Metal complexes increase uptake of Zn and Cu by plants: implications for uptake and deficiency studies in chelator-buffered solutions. Plant and Soil, 2006, 289, 171-185.	1.8	92
36	DISCREPANCY OF THE MICROBIAL RESPONSE TO ELEVATED COPPER BETWEEN FRESHLY SPIKED AND LONG-TERM CONTAMINATED SOILS. Environmental Toxicology and Chemistry, 2006, 25, 845.	2.2	91

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37	Challenges of Reducing Phosphorus Based Water Eutrophication in the Agricultural Landscapes of Northwest Europe. Frontiers in Marine Science, 2018, 5, .	1.2	91
38	Vanadium bioavailability and toxicity to soil microorganisms and plants. Environmental Toxicology and Chemistry, 2013, 32, 2266-2273.	2.2	90
39	Pathways of human exposure to cobalt in Katanga, a mining area of the D.R. Congo. Science of the Total Environment, 2014, 490, 313-321.	3.9	90
40	High Plant Uptake of Radiocesium from Organic Soils Due to Cs Mobility and Low Soil K Content. Environmental Science & Technology, 1999, 33, 2752-2757.	4.6	83
41	The performance of DGT versus conventional soil phosphorus tests in tropical soilsâ€"maize and rice responses to P application. Plant and Soil, 2013, 366, 49-66.	1.8	83
42	Sprinkler irrigation of rice fields reduces grain arsenic but enhances cadmium. Science of the Total Environment, 2014, 485-486, 468-473.	3.9	81
43	The UVâ€absorbance of dissolved organic matter predicts the fivefold variation in its affinity for mobilizing Cu in an agricultural soil horizon. European Journal of Soil Science, 2008, 59, 1087-1095.	1.8	80
44	Biochar affects carbon composition and stability in soil: a combined spectroscopy-microscopy study. Scientific Reports, 2016, 6, 25127.	1.6	80
45	Long-term exposure to elevated zinc concentrations induced structural changes and zinc tolerance of the nitrifying community in soil. Environmental Microbiology, 2006, 8, 2170-2178.	1.8	77
46	Role of soil constituents in fixation of soluble Zn, Cu, Ni and Cd added to soils. European Journal of Soil Science, 2007, 58, 1514-1524.	1.8	76
47	A survey of symbiotic nitrogen fixation by white clover grown on metal contaminated soils. Soil Biology and Biochemistry, 2004, 36, 633-640.	4.2	75
48	137Cs Uptake in spring wheat (Triticum aestivum L. cv Tonic) at varying K supply. Plant and Soil, 1996, 181, 205-209.	1.8	74
49	Influence of soil properties on copper toxicity for two soil invertebrates. Environmental Toxicology and Chemistry, 2008, 27, 1748-1755.	2.2	74
50	The long term use of farmyard manure and compost: Effects on P availability, orthophosphate sorption strength and P leaching. Agriculture, Ecosystems and Environment, 2016, 216, 23-33.	2.5	73
51	Zinc Toxicity to Nitrification in Soil and Soilless Culture Can Be Predicted with the Same Biotic Ligand Model. Environmental Science & Technology, 2007, 41, 2992-2997.	4.6	72
52	Phosphorus losses from agricultural land to natural waters are reduced by immobilization in iron-rich sediments of drainage ditches. Water Research, 2015, 71, 160-170.	5.3	72
53	Element distribution and iron speciation in mature wheat grains (Triticum aestivum L.) using synchrotron Xâ€ray fluorescence microscopy mapping and Xâ€ray absorption nearâ€edge structure (XANES) imaging. Plant, Cell and Environment, 2016, 39, 1835-1847.	2.8	72
54	Radio-labile cadmium and zinc in soils as affected by pH and source of contamination. European Journal of Soil Science, 2004, 55, 113-122.	1.8	71

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55	Longâ€term effect of biochar on the stabilization of recent carbon: soils with historical inputs of charcoal. GCB Bioenergy, 2016, 8, 371-381.	2.5	71
56	A comparison of soil tests for available phosphorus in longâ€term field experiments in Europe. European Journal of Soil Science, 2017, 68, 873-885.	1.8	71
57	Toxicity of Nanoparticles Embedded in Paints Compared with Pristine Nanoparticles in Mice. Toxicological Sciences, 2014, 141, 132-140.	1.4	70
58	Internal Loading and Redox Cycling of Sediment Iron Explain Reactive Phosphorus Concentrations in Lowland Rivers. Environmental Science & Technology, 2017, 51, 2584-2592.	4.6	69
59	Title is missing!. Plant and Soil, 1998, 202, 211-216.	1.8	68
60	Survival of rhizobia in soil is sensitive to elevated zinc in the absence of the host plant. Soil Biology and Biochemistry, 2005, 37, 573-579.	4.2	67
61	Diffusion Limitations in Root Uptake of Cadmium and Zinc, But Not Nickel, and Resulting Bias in the Michaelis Constant Â Â. Plant Physiology, 2012, 160, 1097-1109.	2.3	65
62	Phosphate binding by natural iron-rich colloids in streams. Water Research, 2016, 98, 326-333.	5.3	65
63	Effects of sulfate on cadmium uptake by Swiss chard: II. Effects due to sulfate addition to soil. Plant and Soil, 1998, 202, 217-222.	1.8	64
64	Decomposition of dissolved organic carbon after soil drying and rewetting as an indicator of metal toxicity in soils. Soil Biology and Biochemistry, 2001, 33, 235-240.	4.2	64
65	Soil properties affecting solid-liquid distribution of As(V) in soils. European Journal of Soil Science, 2004, 55, 165-173.	1.8	64
66	Systematic Evaluation of Chronic Metal-Mixture Toxicity to Three Species and Implications for Risk Assessment. Environmental Science & Technology, 2017, 51, 4615-4623.	4.6	64
67	The performance of DGT versus conventional soil phosphorus tests in tropical soils - An isotope dilution study. Plant and Soil, 2012, 359, 267-279.	1.8	63
68	Influence of organic matter on flocculation of Chlorella vulgaris by calcium phosphate precipitation. Biomass and Bioenergy, 2013, 54, 107-114.	2.9	63
69	Phosphorus resource partitioning shapes phosphorus acquisition and plant species abundance in grasslands. Nature Plants, 2017, 3, 16224.	4.7	63
70	Mobilization of Cu and Zn by root exudates of dicotyledonous plants in resin-buffered solutions and in soil. Plant and Soil, 2008, 306, 69-84.	1.8	62
71	Ageing of vanadium in soils and consequences for bioavailability. European Journal of Soil Science, 2012, 63, 839-847.	1.8	61
72	COMPARISON OF TOXICITY OF ZINC FOR SOIL MICROBIAL PROCESSES BETWEEN LABORATORY-CONTAMINED AND POLLUTED FIELD SOILS. Environmental Toxicology and Chemistry, 2003, 22, 2592.	2.2	60

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73	Agronomic Effectiveness of Granulated and Powdered P-Exchanged Mgâ€“Al LDH Relative to Struvite and MAP. Journal of Agricultural and Food Chemistry, 2017, 65, 6736-6744.	2.4	59
74	Base catalytic activity of alkaline earth MOFs: a (micro)spectroscopic study of active site formation by the controlled transformation of structural anions. Chemical Science, 2014, 5, 4517-4524.	3.7	58
75	A framework for ecological risk assessment of metal mixtures in aquatic systems. Environmental Toxicology and Chemistry, 2018, 37, 623-642.	2.2	58
76	Relating Soil Solution Zn Concentration to Diffusive Gradients in Thin Films Measurements in Contaminated Soils. Environmental Science & Technology, 2003, 37, 3958-3965.	4.6	57
77	Speciation of nickel in surface waters measured with the Donnan membrane technique. Analytica Chimica Acta, 2006, 578, 195-202.	2.6	56
78	Modelling the effects of ageing on Cd, Zn, Ni and Cu solubility in soils using an assemblage model. European Journal of Soil Science, 2008, 59, 1160-1170.	1.8	56
79	Effect of Organic P Forms and P Present in Inorganic Colloids on the Determination of Dissolved P in Environmental Samples by the Diffusive Gradient in Thin Films Technique, Ion Chromatography, and Colorimetry. Analytical Chemistry, 2011, 83, 5317-5323.	3.2	56
80	Distribution of Minerals in Wheat Grains (Triticum aestivum L.) and in Roller Milling Fractions Affected by Pearling. Journal of Agricultural and Food Chemistry, 2015, 63, 1276-1285.	2.4	56
81	Soil organic matter affects arsenic and antimony sorption in anaerobic soils. Environmental Pollution, 2020, 257, 113566.	3.7	56
82	Extent of copper tolerance and consequences for functional stability of the ammoniaâ€oxidizing community in longâ€term copperâ€contaminated soils. Environmental Toxicology and Chemistry, 2010, 29, 27-37.	2.2	55
83	Root hairs explain P uptake efficiency of soybean genotypes grown in a P-deficient Ferralsol. Plant and Soil, 2013, 369, 269-282.	1.8	53
84	Application of fertilisers and ameliorants to reduce soil to plant transfer of radiocaesium and radiostrontium in the medium to long term â€” a summary. Science of the Total Environment, 1993, 137, 173-182.	3.9	52
85	Zinc speciation in mining and smelter contaminated overbank sediments by EXAFS spectroscopy. Geochimica Et Cosmochimica Acta, 2010, 74, 3707-3720.	1.6	51
86	Phytotoxicity of trace metals in spiked and fieldâ€contaminated soils: Linking soilâ€extractable metals with toxicity. Environmental Toxicology and Chemistry, 2014, 33, 2479-2487.	2.2	51
87	Nanospecific Phytotoxicity of CuO Nanoparticles in Soils Disappeared When Bioavailability Factors Were Considered. Environmental Science & Technology, 2017, 51, 11976-11985.	4.6	51
88	137Cs uptake in spring wheat (Triticum aestivum L.cv. Tonic) at varying K supply. Plant and Soil, 1996, 181, 211-220.	1.8	49
89	Stimulated activity of the soil nitrifying community accelerates community adaptation to Zn stress. Soil Biology and Biochemistry, 2010, 42, 766-772.	4.2	49
90	Aging of nickel added to soils as predicted by soil pH and time. Chemosphere, 2013, 92, 962-968.	4.2	49

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91	The impact of steeping, germination and hydrothermal processing of wheat (Triticum aestivum L.) grains on phytate hydrolysis and the distribution, speciation and bio-accessibility of iron and zinc elements. Food Chemistry, 2018, 264, 367-376.	4.2	49
92	Cationic interactions in radiocaesium uptake from solution by spinach. Journal of Environmental Radioactivity, 1997, 34, 161-170.	0.9	48
93	Labile lead in polluted soils measured by stable isotope dilution. European Journal of Soil Science, 2007, 58, 1-7.	1.8	47
94	Iron-rich colloids as carriers of phosphorus in streams: A field-flow fractionation study. Water Research, 2016, 99, 83-90.	5.3	46
95	EFFECT OF LEACHING AND AGING ON THE BIOAVAILABILITY OF LEAD TO THE SPRINGTAIL FOLSOMIA CANDIDA. Environmental Toxicology and Chemistry, 2006, 25, 2006.	2.2	45
96	Characterization of zinc in contaminated soils: complementary insights from isotopic exchange, batch extractions and XAFS spectroscopy. European Journal of Soil Science, 2011, 62, 318-330.	1.8	45
97	Mixture toxicity of copper, cadmium, and zinc to barley seedlings is not explained by antioxidant and oxidative stress biomarkers. Environmental Toxicology and Chemistry, 2017, 36, 220-230.	2.2	44
98	Uptake of Metals from Soil into Vegetables. , 2011, , 325-367.		44
99	Toxicity in lead salt spiked soils to plants, invertebrates and microbial processes: Unraveling effects of acidification, salt stress and ageing reactions. Science of the Total Environment, 2015, 536, 223-231.	3.9	43
100	Mitigating the level of cadmium in cacao products: Reviewing the transfer of cadmium from soil to chocolate bar. Science of the Total Environment, 2021, 781, 146779.	3.9	43
101	Oxidation of Iron Causes Removal of Phosphorus and Arsenic from Streamwater in Groundwater-Fed Lowland Catchments. Environmental Science & Technology, 2015, 49, 2886-2894.	4.6	42
102	The elemental composition of chocolates is related to cacao content and origin: A multi-element fingerprinting analysis of single origin chocolates. Journal of Food Composition and Analysis, 2019, 83, 103277.	1.9	42
103	Metal mining and birth defects: a case-control study in Lubumbashi, Democratic Republic of the Congo. Lancet Planetary Health, The, 2020, 4, e158-e167.	5.1	42
104	Growth and shoot:root partitioning of spinach plants as affected by nitrogen supply. Plant, Cell and Environment, 1992, 15, 795-807.	2.8	41
105	Changes in radiocaesium uptake and distribution in wheat during plant development: a solution culture study. Plant and Soil, 1995, 176, 1-6.	1.8	41
106	First observation of diffusionâ€limited plant root phosphorus uptake from nutrient solution. Plant, Cell and Environment, 2012, 35, 1558-1566.	2.8	41
107	Iron colloids reduce the bioavailability of phosphorus to the green alga Raphidocelis subcapitata. Water Research, 2014, 59, 198-206.	5.3	41
108	Mobility of Cd and Zn in polluted and unpolluted Spodosols. European Journal of Soil Science, 2006, 57, 122-133.	1.8	40

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109	Dissolved Organic Carbon Fluxes under Bare Soil. Journal of Environmental Quality, 2007, 36, 597-606.	1.0	40
110	Vanadium bioavailability in soils amended with blast furnace slag. Journal of Hazardous Materials, 2015, 296, 158-165.	6.5	40
111	Interactions and Toxicity of Cuâ€“Zn mixtures to Hordeum vulgare in Different Soils Can Be Rationalized with Bioavailability-Based Prediction Models. Environmental Science & Technology, 2016, 50, 1014-1022.	4.6	40
112	Does the enhanced P acquisition by maize following legumes in a rotation result from improved soil P availability?. Soil Biology and Biochemistry, 2007, 39, 2555-2566.	4.2	39
113	Longâ€term reactions of Ni, Zn and Cd with iron oxyhydroxides depend on crystallinity and structure and on metal concentrations. European Journal of Soil Science, 2008, 59, 706-715.	1.8	39
114	Isotopic fractionation of Zn in tomato plants suggests the role of root exudates on Zn uptake. Plant and Soil, 2013, 370, 605-613.	1.8	39
115	Mixture toxicity of copper and zinc to barley at low level effects can be described by the Biotic Ligand Model. Plant and Soil, 2014, 381, 131-142.	1.8	39
116	Limited Dissolved Phosphorus Runoff Losses from Layered Double Hydroxide and Struvite Fertilizers in a Rainfall Simulation Study. Journal of Environmental Quality, 2018, 47, 371-377.	1.0	39
117	Trace element concentrations in mineral phosphate fertilizers used in Europe: A balanced survey. Science of the Total Environment, 2020, 712, 136419.	3.9	39
118	Larger bioavailability of soil phosphorus for irrigated rice compared with rainfed rice in Madagascar: results from a soil and plant survey. Soil Use and Management, 2012, 28, 448-456.	2.6	38
119	The Availability of Copper in Soils Historically Amended with Sewage Sludge, Manure, and Compost. Journal of Environmental Quality, 2012, 41, 506-514.	1.0	38
120	Mixture toxicity of nickel and zinc to Daphnia magna is noninteractive at low effect sizes but becomes synergistic at high effect sizes. Environmental Toxicology and Chemistry, 2015, 34, 1091-1102.	2.2	38
121	Predicting radiocaesium sorption characteristics with soil chemical properties for Japanese soils. Science of the Total Environment, 2015, 524-525, 148-156.	3.9	38
122	Optimization of phosphate recovery from urine by layered double hydroxides. Science of the Total Environment, 2019, 682, 437-446.	3.9	38
123	Manganese Toxicity in Barley is Controlled by Solution Manganese and Soil Manganese Speciation. Soil Science Society of America Journal, 2012, 76, 399-407.	1.2	37
124	Effect of long-term equilibration on the toxicity of molybdenum to soil organisms. Environmental Pollution, 2012, 162, 1-7.	3.7	37
125	Sediment respiration contributes to phosphate release in lowland surface waters. Water Research, 2020, 168, 115168.	5.3	37
126	The transfer of radiocesium from soil to plants: Mechanisms, data, and perspectives for potential countermeasures in Japan. Integrated Environmental Assessment and Management, 2011, 7, 379-381.	1.6	36

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127	A Statistical Approach for Estimating the Radiocesium Interception Potential of Soils. Journal of Environmental Quality, 1999, 28, 1005-1011.	1.0	35
128	Critical Loads of Metals and Other Trace Elements to Terrestrial Environments. Environmental Science & Technology, 2007, 41, 6326-6331.	4.6	35
129	Long-term presence of charcoal increases maize yield in Belgium due to increased soil water availability. European Journal of Agronomy, 2017, 91, 10-15.	1.9	35
130	Background zinc concentrations in soil affect the zinc sensitivity of soil microbial processesâ€"a rationale for a metalloregion approach to risk assessments. Environmental Toxicology and Chemistry, 2001, 20, 2639-2643.	2.2	34
131	Plant-available P for Maize and Cowpea in P-deficient Soils from the Nigerian Northern Guinea Savanna â€“ Comparison of E- and L-values. Plant and Soil, 2006, 283, 251-264.	1.8	34
132	Dynamics of the nitrous oxide reducing community during adaptation to Zn stress in soil. Soil Biology and Biochemistry, 2010, 42, 1581-1587.	4.2	34
133	Modelling the effects of copper on soil organisms and processes using the free ion approach: Towards a multi-species toxicity model. Environmental Pollution, 2013, 178, 244-253.	3.7	34
134	The bioavailability of colloidal and dissolved organic phosphorus to the alga Pseudokirchneriella subcapitata in relation to analytical phosphorus measurements. Hydrobiologia, 2013, 709, 41-53.	1.0	34
135	Effects of Soil Properties on the Toxicity and Bioaccumulation of Lead in Soil Invertebrates. Environmental Toxicology and Chemistry, 2019, 38, 1486-1494.	2.2	34
136	Historical soil amendment with charcoal increases sequestration of nonâ€charcoal carbon: a comparison among methods of black carbon quantification. European Journal of Soil Science, 2016, 67, 324-331.	1.8	32
137	Simulating the mobility of meteoric 10 Be in the landscape through a coupled soil-hillslope model (Be2D). Earth and Planetary Science Letters, 2016, 439, 143-157.	1.8	32
138	Efficient removal of arsenate from oxic contaminated water by colloidal humic acid-coated goethite: Batch and column experiments. Journal of Cleaner Production, 2018, 189, 510-518.	4.6	32
139	Anaerobic Respiration in the Unsaturated Zone of Agricultural Soil Mobilizes Phosphorus and Manganese. Environmental Science & Technology, 2020, 54, 4922-4931.	4.6	32
140	DGT-measured fluxes explain the chloride-enhanced cadmium uptake by plants at low but not at high Cd supply. Plant and Soil, 2009, 318, 127-135.	1.8	31
141	Mixture toxicity and interactions of copper, nickel, cadmium, and zinc to barley at low effect levels: Something from nothing?. Environmental Toxicology and Chemistry, 2016, 35, 2483-2492.	2.2	31
142	Farmyard manure application in weathered upland soils of Madagascar sharply increase phosphate fertilizer use efficiency for upland rice. Field Crops Research, 2018, 222, 94-100.	2.3	31
143	An anion resin membrane technique to overcome detection limits of isotopically exchanged P in P-sorbing soils. European Journal of Soil Science, 2004, 55, 63-69.	1.8	29
144	Mechanisms of enhanced mobilisation of trace metals by anionic surfactants in soil. Environmental Pollution, 2011, 159, 809-816.	3.7	29

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145	Lead phytotoxicity in soils and nutrient solutions is related to lead induced phosphorus deficiency. Environmental Pollution, 2012, 164, 242-247.	3.7	29
146	Variovorax sp.-mediated biodegradation of the phenyl urea herbicide linuron at micropollutant concentrations and effects of natural dissolved organic matter as supplementary carbon source. Applied Microbiology and Biotechnology, 2013, 97, 9837-9846.	1.7	29
147	Testing phosphorus availability for maize with DGT in weathered soils amended with organic materials. Plant and Soil, 2014, 376, 177-192.	1.8	29
148	Crop residue management and oxalateâ€extractable iron and aluminium explain longâ€term soil organic carbon sequestration and dynamics. European Journal of Soil Science, 2016, 67, 332-340.	1.8	29
149	Transpiration flow controls Zn transport in Brassica napus and Lolium multiflorum under toxic levels as evidenced from isotopic fractionation. Comptes Rendus - Geoscience, 2015, 347, 386-396.	0.4	28
150	Partitioning of carbon sources among functional pools to investigate short-term priming effects of biochar in soil: A 13C study. Science of the Total Environment, 2016, 547, 30-38.	3.9	28
151	A functionalâ€“structural model of upland rice root systems reveals the importance of laterals and growing root tips for phosphate uptake from wet and dry soils. Annals of Botany, 2020, 126, 789-806.	1.4	28
152	Unlocking fixed soil phosphorus upon waterlogging can be promoted by increasing soil cation exchange capacity. European Journal of Soil Science, 2012, 63, 831-838.	1.8	27
153	Environmental Dissolved Organic Matter Governs Biofilm Formation and Subsequent Linuron Degradation Activity of a Linuron-Degrading Bacterial Consortium. Applied and Environmental Microbiology, 2013, 79, 4534-4542.	1.4	27
154	Elevated Cadmium Concentrations in Potato Tubers Due to Irrigation with River Water Contaminated by Mining in PotosÃ, Bolivia. Journal of Environmental Quality, 2007, 36, 1181-1186.	1.0	26
155	Resistance and resilience of zinc tolerant nitrifying communities is unaffected in long-term zinc contaminated soils. Soil Biology and Biochemistry, 2007, 39, 1828-1831.	4.2	26
156	Characterisation of hydrous ferric oxides derived from iron-rich groundwaters and their contribution to the suspended sediment of streams. Applied Geochemistry, 2013, 39, 59-68.	1.4	26
157	Inhibition of microbial trichloroethylene dechorination by Fe (III) reduction depends on Fe mineralogy: A batch study using the bioaugmentation culture KB-1. Water Research, 2013, 47, 2543-2554.	5.3	26
158	Deriving siteâ€specific cleanâ€up criteria to protect ecological receptors (plants and soil invertebrates) exposed to metal or metalloid soil contaminants via the direct contact exposure pathway. Integrated Environmental Assessment and Management, 2014, 10, 346-357.	1.6	26
159	Genotypic effects in phytoavailability of radiocaesium are pronounced at low K intensities in soil. Plant and Soil, 2001, 235, 11-20.	1.8	25
160	Factors Controlling the Dissolved Organic Matter Concentration in Pore Waters of Agricultural Soils. Vadose Zone Journal, 2014, 13, 1-9.	1.3	25
161	Combining phosphorus placement and water saving technologies enhances rice production in phosphorus-deficient lowlands. Field Crops Research, 2019, 236, 177-189.	2.3	25
162	Radiocesium Uptake by Oneâ€Yearâ€Old Willows Planted as Short Rotation Coppice. Journal of Environmental Quality, 2000, 29, 1384-1390.	1.0	24

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164	Reproductive toxicity of binary and ternary mixture combinations of nickel, zinc, and lead to Ceriodaphnia dubia is best predicted with the independent action model. Environmental Toxicology and Chemistry, 2016, 35, 1796-1805.	2.2	24
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