Filip M G Tack

List of Publications by Year
in descending order

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200	12,626	15495 65	29127 104
papers	citations	h-index	g-index

203	203	203	11018
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Trace metal behaviour in estuarine and riverine floodplain soils and sediments: A review. Science of the Total Environment, 2009, 407, 3972-3985.	3.9	943
2	Comparison of EDTA and EDDS as potential soil amendments for enhanced phytoextraction of heavy metals. Chemosphere, 2005, 58, 1011-1022.	4.2	367
3	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. Chemosphere, 2017, 182, 90-105.	4.2	352
4	Nutrient Recovery from Digestate: Systematic Technology Review and Product Classification. Waste and Biomass Valorization, 2017, 8, 21-40.	1.8	278
5	Cadmium phytoremediation potential of Brassica crop species: A review. Science of the Total Environment, 2018, 631-632, 1175-1191.	3.9	275
6	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. Environment International, 2020, 134, 105281.	4.8	228
7	The use of bio-energy crops (Zea mays) for â€˜phytoattenuationâ€™ of heavy metals on moderately contaminated soils: A field experiment. Chemosphere, 2010, 78, 35-41.	4.2	224
8	EDTA-assisted Pb phytoextraction. Chemosphere, 2009, 74, 1279-1291.	4.2	220
9	Effect of salinity on heavy metal mobility and availability in intertidal sediments of the Scheldt estuary. Estuarine, Coastal and Shelf Science, 2008, 77, 589-602.	0.9	201
10	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. Critical Reviews in Environmental Science and Technology, 2022, 52, 675-726.	6.6	196
11	Phytoremediation prospects of willow stands on contaminated sediment: a field trial. Environmental Pollution, 2003, 126, 275-282.	3.7	191
12	Phytoavailability assessment of heavy metals in soils by single extractions and accumulation by Phaseolus vulgaris. Environmental and Experimental Botany, 2007, 60, 385-396.	2.0	189
13	PHYTOREMEDIATION FOR HEAVY METALâ€CONTAMINATED SOILS COMBINED WITH BIOENERGY PRODUCTION. Journal of Environmental Engineering and Landscape Management, 2007, 15, 227-236.	0.4	188
14	Potential of Brassic rapa, Cannabis sativa, Helianthus annuus and Zea mays for phytoextraction of heavy metals from calcareous dredged sediment derived soils. Chemosphere, 2005, 61, 561-572.	4.2	178
15	Potential of five willow species (Salix spp.) for phytoextraction of heavy metals. Environmental and Experimental Botany, 2007, 60, 57-68.	2.0	163
16	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. Journal of Hazardous Materials, 2019, 365, 684-694.	6.5	156
17	Comparison of cadmium extractability from soils by commonly used single extraction protocols. Geoderma, 2007, 141, 247-259.	2.3	154
18	Accumulation of metals in a horizontal subsurface flow constructed wetland treating domestic wastewater in Flanders, Belgium. Science of the Total Environment, 2007, 380, 102-115.	3.9	154

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19	Enhanced Phytoextraction: In Search of EDTA Alternatives. International Journal of Phytoremediation, 2004, 6, 95-109.	1.7	146
20	Influence of hydrological regime on pore water metal concentrations in a contaminated sediment-derived soil. Environmental Pollution, 2007, 147, 615-625.	3.7	134
21	Arsenic in cooked rice: Effect of chemical, enzymatic and microbial processes on bioaccessibility and speciation in the human gastrointestinal tract. Environmental Pollution, 2012, 162, 241-246.	3.7	133
22	Effects of Vegetation, Season and Temperature on the Removal of Pollutants in Experimental Floating Treatment Wetlands. Water, Air, and Soil Pollution, 2010, 212, 281-297.	1.1	132
23	Determination of Al, Cu, Fe, Mn, Pb and Zn in certified reference materials using the optimized BCR sequential extraction procedure. Analytica Chimica Acta, 2002, 454, 249-257.	2.6	130
24	Impact of organic amendments (biochar, compost and peat) on Cd and Zn mobility and solubility in contaminated soil of the Campine region after three years. Science of the Total Environment, 2018, 626, 195-202.	3.9	128
25	Phytoremediation, a sustainable remediation technology? Conclusions from a case study. I: Energy production and carbon dioxide abatement. Biomass and Bioenergy, 2012, 39, 454-469.	2.9	127
26	EFFECT OF DISSOLVED ORGANIC MATTER SOURCE ON ACUTE COPPER TOXICITY TO DAPHNIA MAGNA. Environmental Toxicology and Chemistry, 2004, 23, 1248.	2.2	125
27	DEVELOPMENT AND FIELD VALIDATION OF A PREDICTIVE COPPER TOXICITY MODEL FOR THE GREEN ALGA PSEUDOKIRCHNERIELLA SUBCAPITATA. Environmental Toxicology and Chemistry, 2003, 22, 2454.	2.2	117
28	A review of green remediation strategies for heavy metal contaminated soil. Soil Use and Management, 2021, 37, 936-963.	2.6	117
29	Speciation, transportation, and pathways of cadmium in soil-rice systems: A review on the environmental implications and remediation approaches for food safety. Environment International, 2021, 156, 106749.	4.8	116
30	Ecological and economic benefits of the application of bio-based mineral fertilizers in modern agriculture. Biomass and Bioenergy, 2013, 49, 239-248.	2.9	115
31	Redox chemistry of vanadium in soils and sediments: Interactions with colloidal materials, mobilization, speciation, and relevant environmental implications- A review. Advances in Colloid and Interface Science, 2019, 265, 1-13.	7.0	115
32	Baseline concentration levels of trace elements as a function of clay and organic carbon contents in soils in Flanders (Belgium). Science of the Total Environment, 1997, 201, 113-123.	3.9	114
33	Short Rotation Coppice Culture of Willows and Poplars as Energy Crops on Metal Contaminated Agricultural Soils. International Journal of Phytoremediation, 2011, 13, 194-207.	1.7	113
34	Effects of a municipal solid waste compost and mineral fertilization on plant growth in two tropical agricultural soils of Mali. Bioresource Technology, 2003, 86, 15-20.	4.8	104
35	Availability of heavy metals for uptake by Salix viminalis on a moderately contaminated dredged sediment disposal site. Environmental Pollution, 2005, 137, 354-364.	3.7	103
36	Growth and trace metal accumulation of two Salix clones on sediment-derived soils with increasing contamination levels. Chemosphere, 2005, 58, 995-1002.	4.2	100

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37	Chemical characteristics of Malian and Belgian solid waste composts. Bioresource Technology, 2002, 81, 97-101.	4.8	99
38	Mercury baseline levels in Flemish soils (Belgium). Environmental Pollution, 2005, 134, 173-179.	3.7	98
39	Chemically Assisted Phytoextraction: A Review of Potential Soil Amendments for Increasing Plant Uptake of Heavy Metals. International Journal of Phytoremediation, 2008, 10, 390-414.	1.7	98
40	Arsenic, chromium, molybdenum, and selenium: Geochemical fractions and potential mobilization in riverine soil profiles originating from Germany and Egypt. Chemosphere, 2017, 180, 553-563.	4.2	95
41	Performance of selected destruction methods for the determination of heavy metals in reed plants (Phragmites australis). Analytica Chimica Acta, 2003, 497, 191-198.	2.6	94
42	Metal accumulation in intertidal litter through decomposing leaf blades, sheaths and stems of Phragmites australis. Chemosphere, 2006, 63, 1815-1823.	4.2	93
43	Enhanced phytoextraction of uranium and selected heavy metals by Indian mustard and ryegrass using biodegradable soil amendments. Science of the Total Environment, 2009, 407, 1496-1505.	3.9	93
44	Sorption of Co, Cu, Ni and Zn from industrial effluents by the submerged aquatic macrophyte Myriophyllum spicatum L.. Ecological Engineering, 2007, 30, 320-325.	1.6	90
45	Soil solution Cd, Cu and Zn concentrations as affected by short-time drying or wetting: The role of hydrous oxides of Fe and Mn. Geoderma, 2006, 137, 83-89.	2.3	89
46	Fractionation of Cu, Pb and Zn in certified reference soils SRM 2710 and SRM 2711 using the optimized BCR sequential extraction procedure. Journal of Environmental Management, 2003, 8, 37-50.	1.7	88
47	The beneficial and hazardous effects of selenium on the health of the soil-plant-human system: An overview. Journal of Hazardous Materials, 2022, 422, 126876.	6.5	88
48	Closing the nutrient cycle by using bio-digestion waste derivatives as synthetic fertilizer substitutes: A field experiment. Biomass and Bioenergy, 2013, 55, 175-189.	2.9	87
49	Degradability of ethylenediaminedisuccinic acid (EDDS) in metal contaminated soils: Implications for its use soil remediation. Chemosphere, 2008, 70, 358-363.	4.2	85
50	Road-deposited sediments in an urban environment: A first look at sequentially extracted element loads in grain size fractions. Journal of Hazardous Materials, 2012, 225-226, 54-62.	6.5	85
51	Field trials of phytomining and phytoremediation: A critical review of influencing factors and effects of additives. Critical Reviews in Environmental Science and Technology, 2020, 50, 2724-2774.	6.6	84
52	Selenium content of Belgian cultivated soils and its uptake by field crops and vegetables. Science of the Total Environment, 2014, 468-469, 77-82.	3.9	83
53	Leaching behaviour of Cd, Cu, Pb and Zn in surface soils derived from dredged sediments. Environmental Pollution, 1999, 106, 107-114.	3.7	81
54	Tree species effect on the redistribution of soil metals. Environmental Pollution, 2007, 149, 173-181.	3.7	80

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55	Heavy metal contents (Cd, Cu, Zn) in spiders (Pirata piraticus) living in intertidal sediments of the river Scheldt estuary (Belgium) as affected by substrate characteristics. Science of the Total Environment, 2002, 289, 71-81.	3.9	79
56	Short-Rotation Coppice of Willow for Phytoremediation of a Metal-Contaminated Agricultural Area: A Sustainability Assessment. Bioenergy Research, 2009, 2, 144-152.	2.2	78
57	Chemical stabilization of Cd-contaminated soil using biochar. Applied Geochemistry, 2018, 88, 122-130.	1.4	78
58	Factors affecting metal concentrations in the upper sediment layer of intertidal reedbeds along the river Scheldt. Journal of Environmental Monitoring, 2007, 9, 449.	2.1	73
59	Fate of heavy metals during fixed bed downdraft gasification of willow wood harvested from contaminated sites. Biomass and Bioenergy, 2006, 30, 58-65.	2.9	72
60	Heavy metal mobility in intertidal sediments of the Scheldt estuary: Field monitoring. Science of the Total Environment, 2009, 407, 2919-2930.	3.9	72
61	Phytoremediation, a sustainable remediation technology? II: Economic assessment of CO2 abatement through the use of phytoremediation crops for renewable energy production. Biomass and Bioenergy, 2012, 39, 470-477.	2.9	72
62	Selenium bioaccessibility in stomach, small intestine and colon: Comparison between pure Se compounds, Se-enriched food crops and food supplements. Food Chemistry, 2016, 197, 382-387.	4.2	72
63	Seasonal Changes of Metals in Willow (Salix sp.) Stands for Phytoremediation on Dredged Sediment. Environmental Science & Technology, 2006, 40, 1962-1968.	4.6	71
64	Enhanced Phytoextraction: II. Effect of EDTA and Citric Acid on Heavy Metal Uptake byHelianthus annuusfrom a Calcareous Soil. International Journal of Phytoremediation, 2005, 7, 143-152.	1.7	69
65	Characterisation of Malian and Belgian solid waste composts with respect to fertility and suitability for land application. Waste Management, 2003, 23, 517-522.	3.7	68
66	Fertilizer performance of liquid fraction of digestate as synthetic nitrogen substitute in silage maize cultivation for three consecutive years. Science of the Total Environment, 2017, 599-600, 1885-1894.	3.9	67
67	Application of a Full-scale Constructed Wetland for Tertiary Treatment of Piggery Manure: Monitoring Results. Water, Air, and Soil Pollution, 2008, 193, 15-24.	1.1	64
68	Field Evaluation of Willow Under Short Rotation Coppice for Phytomanagement of Metal-Polluted Agricultural Soils. International Journal of Phytoremediation, 2013, 15, 677-689.	1.7	64
69	Phosphorus Use Efficiency of Bio-Based Fertilizers: Bioavailability and Fractionation. Pedosphere, 2016, 26, 310-325.	2.1	64
70	Cadmium and Zinc uptake by volunteer willow species and elder rooting in polluted dredged sediment disposal sites. Science of the Total Environment, 2002, 299, 191-205.	3.9	63
71	Influence of biochar on trace element uptake, toxicity and detoxification in plants and associated health risks: A critical review. Critical Reviews in Environmental Science and Technology, 2022, 52, 2803-2843.	6.6	63
72	Fertilizing Soil with Selenium Fertilizers: Impact on Concentration, Speciation, and Bioaccessibility of Selenium in Leek (Allium ampeloprasum). Journal of Agricultural and Food Chemistry, 2012, 60, 10930-10935.	2.4	60

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73	Potential of thermal treatment for decontamination of mercury containing wastes from chlor-alkali industry. Journal of Hazardous Materials, 2011, 186, 114-118.	6.5	58
74	Factors affecting metal concentrations in reed plants (Phragmites australis) of intertidal marshes in the Scheldt estuary. Ecological Engineering, 2009, 35, 310-318.	1.6	57
75	Heavy metal contents in surface soils along the Upper Scheldt river (Belgium) affected by historical upland disposal of dredged materials. Science of the Total Environment, 2002, 290, 1-14.	3.9	55
76	Safe use of metal-contaminated agricultural land by cultivation of energy maize (Zea mays). Environmental Pollution, 2013, 178, 375-380.	3.7	53
77	Effect of biochars pyrolyzed in N2 and CO2, and feedstock on microbial community in metal(loid)s contaminated soils. Environment International, 2019, 126, 791-801.	4.8	52
78	Elevated Cd and Zn uptake by aspen limits the phytostabilization potential compared to five other tree species. Ecological Engineering, 2011, 37, 1072-1080.	1.6	51
79	Accumulation of Metals in the Sediment and Reed Biomass of a Combined Constructed Wetland Treating Domestic Wastewater. Water, Air, and Soil Pollution, 2007, 183, 253-264.	1.1	50
80	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. Critical Reviews in Environmental Science and Technology, 2021, 51, 2531-2566.	6.6	50
81	Metal phase associations in soils from an urban watershed, Honolulu, Hawaii. Science of the Total Environment, 2000, 256, 103-113.	3.9	49
82	Enhanced Phytoextraction: I. Effect of EDTA and Citric Acid on Heavy Metal Mobility in a Calcareous Soil. International Journal of Phytoremediation, 2005, 7, 129-142.	1.7	49
83	Zn in the soil solution of unpolluted and polluted soils as affected by soil characteristics. Geoderma, 2006, 136, 107-119.	2.3	48
84	HPLCâ€ICPâ€MS method development to monitor arsenic speciation changes by human gut microbiota. Biomedical Chromatography, 2012, 26, 524-533.	0.8	48
85	Metal(loid) immobilization in soils with biochars pyrolyzed in N2 and CO2 environments. Science of the Total Environment, 2018, 630, 1103-1114.	3.9	48
86	Trace Metal Leachability of Landâ€Disposed Dredged Sediments. Journal of Environmental Quality, 2000, 29, 1124-1132.	1.0	46
87	Metal extraction from road-deposited sediments using nine partial decomposition procedures. Applied Geochemistry, 2004, 19, 947-955.	1.4	46
88	SOIL-SOLUTION SPECIATION OF Cd AS AFFECTED BY SOIL CHARACTERISTICS IN UNPOLLUTED AND POLLUTED SOILS. Environmental Toxicology and Chemistry, 2005, 24, 499.	2.2	46
89	Effects of sorption, sulphate reduction, and Phragmites australis on the removal of heavy metals in subsurface flow constructed wetland microcosms. Water Science and Technology, 2007, 56, 193-198.	1.2	46
90	Metal accumulation in intertidal marshes: Role of sulphide precipitation. Wetlands, 2008, 28, 735-746.	0.7	46

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91	Effect of Water Table Level on Metal Mobility at Different Depths in Wetland Soils of the Scheldt Estuary (Belgium). Water, Air, and Soil Pollution, 2009, 202, 353-367.	1.1	46
92	Heavy metal concentrations in consecutive saturation extracts of dredged sediment derived surface soils. Environmental Pollution, 1998, 103, 109-115.	3.7	45
93	Earthworm biomass as additional information for risk assessment of heavy metal biomagnification: a case study for dredged sediment-derived soils and polluted floodplain soils. Environmental Pollution, 2004, 129, 363-375.	3.7	45
94	A comparative study of surface and subsurface flow constructed wetlands for treatment of combined sewer overflows: A greenhouse experiment. Ecological Engineering, 2009, 35, 175-183.	1.6	41
95	Utilization of derivatives from nutrient recovery processes as alternatives for fossil-based mineral fertilizers in commercial greenhouse production of Lactuca sativa L.. Scientia Horticulturae, 2016, 198, 267-276.	1.7	40
96	Effect of biodegradable amendments on uranium solubility in contaminated soils. Science of the Total Environment, 2008, 391, 26-33.	3.9	39
97	Economic Viability of Phytoremediation of a Cadmium Contaminated Agricultural Area Using Energy Maize. Part I: Effect on the Farmer's Income. International Journal of Phytoremediation, 2010, 12, 650-662.	1.7	39
98	Development, implementation, and validation of a generic nutrient recovery model (NRM) library. Environmental Modelling and Software, 2018, 99, 170-209.	1.9	39
99	Single extractions versus sequential extraction for the estimation of heavy metal fractions in reduced and oxidised dredged sediments. Chemical Speciation and Bioavailability, 1999, 11, 43-50.	2.0	37
100	Temporal-spatial trends in heavy metal contents in sediment-derived soils along the Sea Scheldt river (Belgium). Environmental Pollution, 2003, 122, 7-18.	3.7	37
101	Extraction of labile metals from solid media by dilute hydrochloric acid. Environmental Monitoring and Assessment, 2008, 138, 119-130.	1.3	37
102	Assisted Phytoextraction: Helping Plants to Help Us. Elements, 2010, 6, 383-388.	0.5	37
103	Cd and Zn concentration in hybrid poplar foliage and leaf beetles grown on polluted sediment-derived soils. Environmental Monitoring and Assessment, 2003, 89, 263-283.	1.3	36
104	Chemically enhanced phytoextraction of Pb by wheat in texturally different soils. Chemosphere, 2010, 79, 652-658.	4.2	36
105	Arsenic undergoes significant speciation changes upon incubation of contaminated rice with human colon micro biota. Journal of Hazardous Materials, 2013, 262, 1237-1244.	6.5	35
106	The effect of hydrological regime on the metal bioavailability for the wetland plant species Salix cinerea. Environmental Pollution, 2005, 135, 303-312.	3.7	34
107	Westernized diets lower arsenic gastrointestinal bioaccessibility but increase microbial arsenic speciation changes in the colon. Chemosphere, 2015, 119, 757-762.	4.2	33
108	Nutrient recovery from digested waste: Towards a generic roadmap for setting up an optimal treatment train. Waste Management, 2018, 78, 385-392.	3.7	32

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109	Tertiary treatment of the liquid fraction of pig manure with Phragmites australis. Water, Air, and Soil Pollution, 2005, 160, 15-26.	1.1	31
110	Presence and mobility of arsenic in estuarine wetland soils of the Scheldt estuary (Belgium). Journal of Environmental Monitoring, 2009, 11, 873.	2.1	31
111	Assessing Nutrient Use Efficiency and Environmental Pressure of Macronutrients in Biobased Mineral Fertilizers. Advances in Agronomy, 2014, 128, 137-180.	2.4	31
112	Water Extractability of Trace Metals from Soils: Some Pitfalls. Water, Air, and Soil Pollution, 2006, 176, 21-35.	1.1	30
113	Arsenic bioaccessibility upon gastrointestinal digestion is highly determined by its speciation and lipid-bile salt interactions. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2013, 48, 656-665.	0.9	30
114	Bioaccessibility of selenium from cooked rice as determined in a simulator of the human intestinal tract (SHIME). Journal of the Science of Food and Agriculture, 2017, 97, 3540-3545.	1.7	29
115	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. Environmental Sciences: Processes and Impacts, 2020, 22, 1790-1808.	1.7	29
116	Potential Use of the Plant Antioxidant Network For Environmental Exposure Assessment of Heavy Metals in Soils. Environmental Monitoring and Assessment, 2006, 120, 243-267.	1.3	28
117	Metal and nutrient dynamics in decomposing tree litter on a metal contaminated site. Environmental Pollution, 2014, 189, 54-62.	3.7	28
118	Extensive grinding and pressurized extraction with water are key points for effective and species preserving extraction of arsenic from rice. Analytical Methods, 2012, 4, 1237.	1.3	27
119	Foliar concentrations of volunteer willows growing on polluted sediment-derived sites versus sites with baseline contamination levelsElectronic supplementary information (ESI) available: results for fluctuating asymmetry in the leaves of S. cinerea (ESI1, Table 1S) and forest floor quality (ESI2, Table) Tj ETQq1 1 0.784314 rgBT /Ove	2.8	
120	The importance of biological factors affecting trace metal concentration as revealed from accumulation patterns in co-occurring terrestrial invertebrates. Environmental Pollution, 2004, 127, 335-341.	3.7	26
121	Influence of flooding, salinity and inundation time on the bioavailability of metals in wetlands. Science of the Total Environment, 2007, 380, 144-153.	3.9	26
122	Opportunities for domesticating the African baobab (Adansonia digitata L.): multi-trait fruit selection. Agroforestry Systems, 2013, 87, 493-505.	0.9	26
123	Differences in Cd and Zn bioaccumulation for the flood-tolerant Salix cinerea rooting in seasonally flooded contaminated sediments. Science of the Total Environment, 2005, 341, 251-263.	3.9	25
124	Reverse osmosis sampling does not affect the protective effect of dissolved organic matter on copper and zinc toxicity to freshwater organisms. Chemosphere, 2005, 58, 653-658.	4.2	25
125	Mild hydrothermal conditioning prior to torrefaction and slow pyrolysis of low-value biomass. Bioresource Technology, 2016, 217, 104-112.	4.8	25
126	The role of the litter compartment in a constructed floating wetland. Ecological Engineering, 2012, 39, 71-80.	1.6	23

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127	Organ- and species-specific accumulation of metals in two land snail species (Gastropoda, Pulmonata). Science of the Total Environment, 2013, 449, 470-481.	3.9	23
128	Trace Elements in Potato. Potato Research, 2014, 57, 311-325.	1.2	23
129	Physico-Chemical P Removal from the Liquid Fraction of Pig Manure as an Intermediary Step in Manure Processing. Water, Air, and Soil Pollution, 2006, 169, 317-330.	1.1	22
130	Effect of decomposing litter on the mobility and availability of metals in the soil of a recently created floodplain. Geoderma, 2008, 147, 34-46.	2.3	22
131	Integrated Constructed Wetlands (ICW): Ecological Development in Constructed Wetlands for Manure Treatment. Wetlands, 2011, 31, 763-771.	0.7	22
132	Forest floor leachate fluxes under six different tree species on a metal contaminated site. Science of the Total Environment, 2013, 447, 99-107.	3.9	21
133	Metal extraction from road sediment using different strength reagents: impact on anthropogenic contaminant signals. Environmental Monitoring and Assessment, 2001, 71, 221-242.	1.3	20
134	An investigation on the modelling of kinetics of thermal decomposition of hazardous mercury wastes. Journal of Hazardous Materials, 2013, 260, 358-367.	6.5	20
135	Field trial experiment: Phytoremediation withSalix sp. on a dredged sediment disposal site in Flanders, Belgium. Remediation, 2003, 13, 87-97.	1.1	19
136	Storage mediums affect metal concentration in woodlice (Isopoda). Environmental Pollution, 2003, 121, 87-93.	3.7	19
137	Sequential Extraction of Lead from Grain Size Fractionated River Sediments Using the Optimized BCR Procedure. Water, Air, and Soil Pollution, 2007, 184, 269-284.	1.1	19
138	Leaching behavior of Cd, Zn and nutrients (K, P, S) from a contaminated soil as affected by amendment with biochar. Chemosphere, 2020, 245, 125561.	4.2	19
139	Effects of carbonâ€based materials and redmuds on metal(loid) immobilization and growth of Salix dasyclados Wimm. on a former mine Technosol contaminated by arsenic and lead. Land Degradation and Development, 2021, 32, 467-481.	1.8	19
140	Assessment of the Pollution Status of Alluvial Plains: A Case Study for the Dredged Sediment-Derived Soils Along the Leie River. Archives of Environmental Contamination and Toxicology, 2004, 47, 14-22.	2.1	18
141	Effects of willow stands on heavy metal concentrations and top soil properties of infrastructure spoil landfills and dredged sediment-derived sites. Science of the Total Environment, 2009, 407, 5289-5297.	3.9	18
142	Does acidification increase the nitrogen fertilizer replacement value ofÂbioâ€based fertilizers?. Journal of Plant Nutrition and Soil Science, 2017, 180, 800-810.	1.1	18
143	Effect of composting on the Cd, Zn and Mn content and fractionation in feedstock mixtures with wood chips from a short-rotation coppice and bark. Waste Management, 2013, 33, 2195-2203.	3.7	17
144	Distribution characteristics of Cd in different types of leaves of Festuca arundinacea intercropped with Cicer arietinum L.: A new strategy to remove pollutants by harvesting senescent and dead leaves. Environmental Research, 2019, 179, 108801.	3.7	17

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145	Influence of flooding and metal immobilising soil amendments on availability of metals for willows and earthworms in calcareous dredged sediment-derived soils. Environmental Pollution, 2010, 158, 2181-2188.	3.7	16
146	Uptake of Cd, Zn and Mn by willow increases during terrestrialisation of initially ponded polluted sediments. Science of the Total Environment, 2007, 380, 133-143.	3.9	15
147	Effect of Physicochemical Soil Characteristics on Copper and Lead Solubility in Polluted and Unpolluted Soils. Soil Science, 2009, 174, 601-610.	0.9	15
148	Use of selenium fertilizers for production of Seâ€enriched Kenaf (Hibiscus cannabinus): Effect on Se concentration and plant productivity. Journal of Plant Nutrition and Soil Science, 2013, 176, 634-639.	1.1	15
149	The effect of lead exposure on fatty acid composition in mouse brain analyzed using pseudo-catalytic derivatization. Environmental Pollution, 2017, 222, 182-190.	3.7	15
150	Solid fraction of separated digestate as soil improver: implications for soil fertility and carbon sequestration. Journal of Soils and Sediments, 2021, 21, 678-688.	1.5	15
151	The term â€œheavy metal(s)â€• History, current debate, and future use. Science of the Total Environment, 2021, 789, 147951.	3.9	15
152	The potential of foliar treatments for enhanced phytoextraction of heavy metals from contaminated soil. Remediation, 2004, 14, 111-123.	1.1	14
153	Effect of submergenceâ€“emergence sequence and organic matter or aluminosilicate amendment on metal uptake by woody wetland plant species from contaminated sediments. Environmental Pollution, 2007, 145, 329-338.	3.7	14
154	Cycling and ecosystem impact of metals in contaminated calcareous dredged sediment-derived soils (Flanders, Belgium). Science of the Total Environment, 2008, 400, 283-289.	3.9	14
155	Distribution and Mobilization of Pollutants in the Sediment of a Constructed Floating Wetland Used for Treatment of Combined Sewer Overflow Events. Water Environment Research, 2011, 83, 427-439.	1.3	13
156	Watering regime influences Cd concentrations in cultivated spinach. Journal of Environmental Management, 2017, 186, 201-206.	3.8	13
157	Metal sorption by biochars: A trade-off between phosphate and carbonate concentration as governed by pyrolysis conditions. Journal of Environmental Management, 2019, 246, 496-504.	3.8	13
158	Zn phytoextraction and recycling of alfalfa biomass as potential Zn-biofortified feed crop. Science of the Total Environment, 2021, 760, 143424.	3.9	13
159	Unraveling natural aging-induced properties change of sludge-derived hydrochar and enhanced cadmium sorption site heterogeneity. Biochar, 2022, 4, .	6.2	13
160	Potential of visible and near infrared spectroscopy coupled with machine learning for predicting soil metal concentrations at the regional scale. Science of the Total Environment, 2022, 841, 156582.	3.9	13
161	Hydrological regime and salinity alter the bioavailability of Cu and Zn in wetlands. Environmental Pollution, 2010, 158, 1870-1875.	3.7	12
162	Solid-phase distribution of heavy metals as affected by single reagent extraction in dredged sediment derived surface soils. Chemical Speciation and Bioavailability, 1996, 8, 37-43.	2.0	11

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