Pavel Tlustos

List of Publications by Year
in descending order

148 papers	3,485 citations	136740 32 h-index	189595 50 g-index
148 all docs	148 docs citations	148 times ranked	4062 citing authors

#	Article	IF	Citations
1	A comparison of phytoremediation capability of selected plant species for given trace elements. Environmental Pollution, 2006, 144, 93-100.	3.7	167
2	Phytoextraction of Pb and Cd from a contaminated agricultural soil using different EDTA application regimes: Laboratory versus field scale measures of efficiency. Geoderma, 2008, 144, 446-454.	2.3	138
3	Mutual relationships of biochar and soil pH, CEC, and exchangeable base cations in a model laboratory experiment. Journal of Soils and Sediments, 2019, 19, 2405-2416.	1.5	130
4	The use of maize and poplar in chelant-enhanced phytoextraction of lead from contaminated agricultural soils. Chemosphere, 2007, 67, 640-651.	4.2	122
5	A comparative study to evaluate natural attenuation, mycoaugmentation, phytoremediation, and microbial-assisted phytoremediation strategies for the bioremediation of an aged PAH-polluted soil. Ecotoxicology and Environmental Safety, 2018, 147, 165-174.	2.9	97
6	Developing decision support tools for the selection of â€œgentleâ€•remediation approaches. Science of the Total Environment, 2009, 407, 6132-6142.	3.9	77
7	The Rengen Grassland Experiment: relationship between soil and biomass chemical properties, amount of elements applied, and their uptake. Plant and Soil, 2010, 333, 163-179.	1.8	74
8	The effect of arsenic contamination on amino acids metabolism in Spinacia oleracea L.. Ecotoxicology and Environmental Safety, 2010, 73, 1309-1313.	2.9	72
9	The use of poplar during a two-year induced phytoextraction of metals from contaminated agricultural soils. Environmental Pollution, 2008, 151, 27-38.	3.7	69
10	The Use of Water Lettuce (<i>Pistia Stratiotes</i>L.) for Rhizofiltration of a Highly Polluted Solution by Cadmium and Lead. International Journal of Phytoremediation, 2011, 13, 859-872.	1.7	66
11	The sequential analytical procedure as a tool for evaluation of As, Cd and Zn mobility in soil. Fresenius' Journal of Analytical Chemistry, 1999, 363, 594-595.	1.5	65
12	Concentration of trace elements in arable soil after long-term application of organic and inorganic fertilizers. Nutrient Cycling in Agroecosystems, 2009, 85, 241-252.	1.1	64
13	Phytoextraction of Risk Elements by Willow and Poplar Trees. International Journal of Phytoremediation, 2015, 17, 414-421.	1.7	63
14	Selenium uptake, transformation and inter-element interactions by selected wildlife plant species after foliar selenate application. Environmental and Experimental Botany, 2016, 125, 12-19.	2.0	62
15	Arsenic compounds in leaves and roots of radish grown in soil treated by arsenite, arsenate and dimethylarsinic acid. Applied Organometallic Chemistry, 2002, 16, 216-220.	1.7	58
16	Effect of digestate and fly ash applications on soil functional properties and microbial communities. European Journal of Soil Biology, 2015, 71, 1-12.	1.4	55
17	Distribution of P, K, Ca, Mg, Cd, Cu, Fe, Mn, Pb and Zn in wood and bark age classes of willows and poplars used for phytoextraction on soils contaminated by risk elements. Environmental Science and Pollution Research, 2015, 22, 18801-18813.	2.7	51
18	Glutamate kinase as a potential biomarker of heavy metal stress in plants. Ecotoxicology and Environmental Safety, 2008, 70, 223-230.	2.9	50

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19	Variation in the uptake of Arsenic, Cadmium, Lead, and Zinc by different species of willows Salix spp. grown in contaminated soils. Open Life Sciences, 2007, 2, 254-275.	0.6	47
20	Investigation of polycyclic aromatic hydrocarbon content in fly ash and bottom ash of biomass incineration plants in relation to the operating temperature and unburned carbon content. Science of the Total Environment, 2016, 563-564, 53-61.	3.9	46
21	Comparing Salt Tolerance at Seedling and Germination Stages in Local Populations of Medicago ciliaris L. to Medicago intertexta L. and Medicago scutellata L.. Plants, 2020, 9, 526.	1.6	45
22	Evaluation of extraction/digestion techniques used to determine lead isotopic composition in forest soils. Analytical and Bioanalytical Chemistry, 2006, 385, 1109-1115.	1.9	44
23	Stabilization of different starting materials through vermicomposting in a continuous-feeding system: Changes in chemical and biological parameters. Waste Management, 2017, 62, 33-42.	3.7	43
24	High temperature-produced biochar can be efficient in nitrate loss prevention and carbon sequestration. Geoderma, 2019, 338, 48-55.	2.3	43
25	Mechanism of Physiological Effects of Titanium Leaf Sprays on Plants Grown on Soil. Biological Trace Element Research, 2003, 91, 179-190.	1.9	42
26	Biochar, wood ash and humic substances mitigating trace elements stress in contaminated sandy loam soil: Evidence from an integrative approach. Chemosphere, 2018, 203, 228-238.	4.2	42
27	Comparing the removal of polycyclic aromatic hydrocarbons in soil after different bioremediation approaches in relationto the extracellular enzyme activities. Journal of Environmental Sciences, 2019, 76, 249-258.	3.2	42
28	Effects of Endo- and Ectomycorrhizal Fungi on Physiological Parameters and Heavy Metals Accumulation of Two Species from the Family Salicaceae. Water, Air, and Soil Pollution, 2012, 223, 399-410.	1.1	40
29	Wheat and Soil Response to Wood Fly Ash Application in Contaminated Soils. Agronomy Journal, 2014, 106, 995-1002.	0.9	39
30	Utilization of biochar and activated carbon to reduce Cd, Pb and Zn phytoavailability and phytotoxicity for plants. Journal of Environmental Management, 2016, 181, 637-645.	3.8	39
31	Changes in cadmium mobility during composting and after soil application. Waste Management, 2009, 29, 2282-2288.	3.7	36
32	The improvement of multi-contaminated sandy loam soil chemical and biological properties by the biochar, wood ash, and humic substances amendments. Environmental Pollution, 2017, 229, 516-524.	3.7	35
33	The uptake of persistent organic pollutants by plants. Open Life Sciences, 2011, 6, 223-235.	0.6	32
34	Effect of ozonation on polychlorinated biphenyl degradation and on soil physico-chemical properties. Journal of Hazardous Materials, 2009, 161, 1202-1207.	6.5	31
35	Organic Acid Enhanced Soil Risk Element (Cd, Pb and Zn) Leaching and Secondary Bioconcentration in Water Lettuce (<i>Pistia Stratiotes</i>L.) in the Rhizofiltration Process. International Journal of Phytoremediation, 2012, 14, 335-349.	1.7	31
36	Ability of natural attenuation and phytoremediation using maize (Zea mays L.) to decrease soil contents of polycyclic aromatic hydrocarbons (PAHs) derived from biomass fly ash in comparison with PAHsâ€“spiked soil. Ecotoxicology and Environmental Safety, 2018, 153, 16-22.	2.9	31

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37	Bioremediation of polycyclic aromatic hydrocarbons (PAHs) present in biomass fly ash by co-composting and co-vermicomposting. Journal of Hazardous Materials, 2019, 369, 79-86.	6.5	31
38	Effects of Sewage Sludge Application on Biomass Production and Concentrations of Cd, Pb and Zn in Shoots of Salix and Populus Clones: Improvement of Phytoremediation Efficiency in Contaminated Soils. Bioenergy Research, 2016, 9, 809-819.	2.2	30
39	Biochar physicochemical parameters as a result of feedstock material and pyrolysis temperature: predictable for the fate of biochar in soil?. Environmental Geochemistry and Health, 2017, 39, 1381-1395.	1.8	29
40	The Rengen Grassland Experiment: soil contamination by trace elements after 65Âyears of Ca, N, P and K fertiliser application. Nutrient Cycling in Agroecosystems, 2009, 83, 39-50.	1.1	28
41	Comparison of willow and sunflower for uranium phytoextraction induced by citric acid. Journal of Radioanalytical and Nuclear Chemistry, 2010, 285, 279-285.	0.7	28
42	Chemically Enhanced Phytoextraction of Risk Elements from a Contaminated Agricultural Soil Using<i>Zea Mays</i>and<i>Triticum Aestivum</i>: Performance and Metal Mobilization Over a Three Year Period. International Journal of Phytoremediation, 2012, 14, 754-771.	1.7	27
43	Yield and cannabinoids contents in different cannabis (Cannabis sativa L.) genotypes for medical use. Industrial Crops and Products, 2018, 112, 363-367.	2.5	27
44	Can Biochar From Contaminated Biomass Be Applied Into Soil for Remediation Purposes?. Water, Air, and Soil Pollution, 2015, 226, 1.	1.1	25
45	Comparison of mild extraction procedures for determination of arsenic compounds in different parts of pepper plants (Capsicum annum, L.). Applied Organometallic Chemistry, 2005, 19, 308-314.	1.7	24
46	The Rengen Grassland experiment: bryophytes biomass and element concentrations after 65Âyears of fertilizer application. Environmental Monitoring and Assessment, 2010, 166, 653-662.	1.3	24
47	Degradation of Polychlorinated Biphenyls in the Rhizosphere of Rape, Brassica napus L.. Bulletin of Environmental Contamination and Toxicology, 2009, 82, 727-731.	1.3	23
48	The Variability of Arsenic and Other Risk Element Uptake by Individual Plant Species Growing on Contaminated Soil. Soil and Sediment Contamination, 2010, 19, 617-634.	1.1	22
49	Soil chemical properties affect the concentration of elements (N, P, K, Ca, Mg, As, Cd, Cr, Cu, Fe, Mn, Ni,) Tj ETQq1 1 0.784314 rgBT / 231-245.	1.8	22
50	Aluminium Uptake and Translocation in Al Hyperaccumulator Rumex obtusifolius Is Affected by Low-Molecular-Weight Organic Acids Content and Soil pH. PLoS ONE, 2015, 10, e0123351.	1.1	21
51	Methodological Aspects of In Vitro Assessment of Bio-accessible Risk Element Pool in Urban Particulate Matter. Biological Trace Element Research, 2014, 161, 216-222.	1.9	20
52	Soil-to-plant transfer of native selenium for wild vegetation cover at selected locations of the Czech Republic. Environmental Monitoring and Assessment, 2015, 187, 358.	1.3	20
53	Nutrient Dynamics in Soil Solution and Wheat Response after Biomass Ash Amendments. Agronomy Journal, 2016, 108, 2222-2234.	0.9	20
54	Mobility of mercury in soil as affected by soil physicochemical properties. Journal of Soils and Sediments, 2016, 16, 2234-2241.	1.5	20

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55	Nitrification in a completely stirred tank reactor treating the liquid phase of digestate: The way towards rational use of nitrogen. Waste Management, 2017, 64, 96-106.	3.7	19
56	The response of broccoli (<i>Brassica oleracea</i>convar.<i>italica</i>) varieties on foliar application of selenium: uptake, translocation, and speciation. Food Additives and Contaminants - Part A Chemistry, Analysis, Control, Exposure and Risk Assessment, 2015, 32, 150928143022009.	1.1	18
57	Long-term willows phytoremediation treatment of soil contaminated by fly ash polycyclic aromatic hydrocarbons from straw combustion. Environmental Pollution, 2020, 264, 114787.	3.7	18
58	Comparison of mild extraction procedures for determination of plant-available arsenic compounds in soil. Analytical and Bioanalytical Chemistry, 2005, 382, 142-148.	1.9	17
59	The long-term variation of Cd and Zn hyperaccumulation byNoccaea sppandArabidopsis halleriplants in both pot and field conditions. International Journal of Phytoremediation, 2016, 18, 110-115.	1.7	17
60	Pyrolysis of biosolids as an effective tool to reduce the uptake of pharmaceuticals by plants. Journal of Hazardous Materials, 2021, 405, 124278.	6.5	17
61	An assessment of the risk of element contamination of urban and industrial areas using Taraxacum sect. Ruderalia as a bioindicator. Environmental Monitoring and Assessment, 2018, 190, 150.	1.3	16
62	Effect of Dry Olive Residueâ€“Based Biochar and Arbuscular Mycorrhizal Fungi Inoculation on the Nutrient Status and Trace Element Contents in Wheat Grown in the As-, Cd-, Pb-, and Zn-Contaminated Soils. Journal of Soil Science and Plant Nutrition, 2020, 20, 1067-1079.	1.7	16
63	Occurrence of synthetic polycyclic and nitro musk compounds in sewage sludge from municipal wastewater treatment plants. Science of the Total Environment, 2021, 801, 149777.	3.9	16
64	The effect of soil properties on cadmium bonds to organic substances of spinach biomass. Applied Organometallic Chemistry, 2002, 16, 187-191.	1.7	15
65	Passive diffusion assessment of cadmium and lead accumulation by plants in hydroponic systems. Chemical Speciation and Bioavailability, 2009, 21, 111-120.	2.0	15
66	Variability of total and mobile element contents in ash derived from biomass combustion. Chemical Papers, 2013, 67, .	1.0	15
67	Organic and inorganic amendment application on mercury-polluted soils: effects on soil chemical and biochemical properties. Environmental Science and Pollution Research, 2016, 23, 14254-14268.	2.7	15
68	Arsenic compounds occurring in ruderal plant communities growing in arsenic contaminated soils. Environmental and Experimental Botany, 2016, 123, 108-115.	2.0	15
69	Factors influencing uptake of contaminated particulate matter in leafy vegetables. Open Life Sciences, 2012, 7, 519-530.	0.6	14
70	Bioavailability of arsenic, cadmium, iron and zinc in leafy vegetables amended with urban particulate matter suspension. Journal of the Science of Food and Agriculture, 2013, 93, 1378-1384.	1.7	14
71	A profile of arsenic species in different vegetables growing in arsenic-contaminated soils. Archives of Agronomy and Soil Science, 2017, 63, 918-927.	1.3	14
72	Fertilization efficiency of wood ash pellets amended by gypsum and superphosphate in the ryegrass growth. Plant, Soil and Environment, 2017, 63, 47-54.	1.0	14

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73	Risk element accumulation in Coleoptera and Hymenoptera (Formicidae) living in an extremely contaminated areaâ€"a preliminary study. Environmental Monitoring and Assessment, 2019, 191, 432.	1.3	14
74	Bioaccessibility versus Bioavailability of Essential (Cu, Fe, Mn, and Zn) and Toxic (Pb) Elements from Phyto Hyperaccumulator <i>Pistia stratiotes</i>: Potential Risk of Dietary Intake. Journal of Agricultural and Food Chemistry, 2015, 63, 2344-2354.	2.4	13
75	Efficiency of foliar selenium application on oilseed rape (<i>Brassica napus</i>L.) as influenced by rainfall and soil characteristics. Archives of Agronomy and Soil Science, 2017, 63, 1240-1254.	1.3	13
76	Content of Inorganic and Organic Pollutants and Their Mobility in Bottom Sediment from the OrlÃk Water Reservoir (Vltava River, Czech Republic). Soil and Sediment Contamination, 2017, 26, 584-604.	1.1	13
77	Effect of silage maize plant density and plant parts on biogas production and composition. Biomass and Bioenergy, 2020, 142, 105770.	2.9	13
78	Response of Pepper Plants (Capsicum annum L.) on Soil Amendment by Inorganic and Organic Compounds of Arsenic. Archives of Environmental Contamination and Toxicology, 2007, 52, 38-46.	2.1	12
79	Translocation of mercury from substrate to fruit bodies of Panellus stipticus, Psilocybe cubensis, Schizophyllum commune and Stropharia rugosoannulata on oat flakes. Ecotoxicology and Environmental Safety, 2016, 125, 184-189.	2.9	12
80	Implications of mycoremediated dry olive residue application and arbuscular mycorrhizal fungi inoculation on the microbial community composition and functionality in a metal-polluted soil. Journal of Environmental Management, 2019, 247, 756-765.	3.8	12
81	The Role of Biochar and Soil Properties in Determining the Available Content of Al, Cu, Zn, Mn, and Cd in Soil. Agronomy, 2020, 10, 885.	1.3	12
82	A comparison of sequential extraction procedures for fractionation of arsenic, cadmium, lead, and zinc in soil. Open Chemistry, 2005, 3, 830-851.	1.0	11
83	The response of tomato (Lycopersicon esculentum) to different concentrations of inorganic and organic compounds of arsenic. Biologia (Poland), 2006, 61, 91-96.	0.8	11
84	The use of differential pulse anodic stripping voltammetry and diffusive gradient in thin films for heavy metals speciation in soil solution. Open Chemistry, 2008, 6, 71-79.	1.0	11
85	The effectiveness of various treatments in changing the nutrient status and bioavailability of risk elements in multi-element contaminated soil. Environmental Science and Pollution Research, 2015, 22, 14325-14336.	2.7	11
86	Risk element immobilization/stabilization potential of fungal-transformed dry olive residue and arbuscular mycorrhizal fungi application in contaminated soils. Journal of Environmental Management, 2017, 201, 110-119.	3.8	11
87	Nutrient status of soil and winter wheat (Triticum aestivum L.) in response to long-term farmyard manure application under different climatic and soil physicochemical conditions in the Czech Republic. Archives of Agronomy and Soil Science, 2018, 64, 70-83.	1.3	11
88	Natural pentacyclic triterpenoid acids potentially useful as biocompatible nanocarriers. FÃ¬toterapÃ¬Ã¢, 2021, 151, 104845.	1.1	11
89	The chemical composition of ethanolic extracts from six genotypes of medical cannabis (Cannabis) Tj ETQq1 1 0.784314 rgBT /Overlock	1.7	11
90	Exploitation of Fast Growing Trees in Metal Remediation. , 2006, , 83-102.		10

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91	Mobility and plant availability of risk elements in soil after long-term application of farmyard manure. Environmental Science and Pollution Research, 2016, 23, 23561-23572.	2.7	10
92	Effects of the soil microbial community on mobile proportions and speciation of mercury (Hg) in contaminated soil. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 364-370.	0.9	10
93	Effects of summer and winter harvesting on element phytoextraction efficiency of <i>Salix</i> and <i>Populus</i> clones planted on contaminated soil. International Journal of Phytoremediation, 2018, 20, 499-506.	1.7	10
94	Mobility and bioaccessibility of risk elements in the area affected by the long-term opencast coal mining. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2019, 54, 1159-1169.	0.9	10
95	Is the long-term application of sewage sludge turning soil into a sink for organic pollutants?: evidence from field studies in the Czech Republic. Journal of Soils and Sediments, 2019, 19, 2445-2458.	1.5	10
96	The role of low molecular weight organic acids in the release of phosphorus from sewage sludge-based biochar. International Journal of Transgender Health, 2021, 14, 599-609.	1.1	10
97	Basic soil chemical properties after 15 years in a long-term tillage and crop rotation experiment. International Agrophysics, 2020, 1, 133-140.	0.7	10
98	Growth and Metal Uptake by Plants Grown in Mono- and Dual Culture in Metal-contaminated Soils. Soil and Sediment Contamination, 2010, 19, 188-203.	1.1	9
99	The risk element contamination level in soil and vegetation at the former deposit of galvanic sludges. Journal of Soils and Sediments, 2016, 16, 924-938.	1.5	9
100	Long-term application of organic matter based fertilisers: Advantages or risks for soil biota? A review. Environmental Reviews, 2017, 25, 408-414.	2.1	9
101	Properties of vermicompost aqueous extracts prepared under different conditions. Environmental Technology (United Kingdom), 2017, 38, 1428-1434.	1.2	9
102	Amino Acid Supplementation as a Biostimulant in Medical Cannabis (Cannabis sativa L.) Plant Nutrition. Frontiers in Plant Science, 2022, 13, 868350.	1.7	9
103	Nutrient mobilization and nutrient contents of <i>Zea mays</i> in response to EDTA additions to heavyâ€metalâ€contaminated agricultural soil. Journal of Plant Nutrition and Soil Science, 2009, 172, 520-527.	1.1	8
104	The Role of Aeration Intensity, Temperature Regimes And Composting Mixture on Gaseous Emission During Composting. Compost Science and Utilization, 2010, 18, 194-200.	1.2	8
105	Applications of Organic and Inorganic Amendments Induce Changes in the Mobility of Mercury and Macro- and Micronutrients of Soils. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	8
106	Changes in Nutrient Plant Availability in Loam and Sandy Clay Loam Soils after Wood Fly and Bottom Ash Amendment. Agronomy Journal, 2016, 108, 487-497.	0.9	8
107	Influence of Rhizon MOM suction cup and Triticum aestivum L. on the concentration of organic and inorganic anions in soil solution. Journal of Soils and Sediments, 2017, 17, 820-826.	1.5	8
108	Variability of trace element distribution in Noccaea spp., Arabidopsis spp., and Thlaspi arvense leaves: the role of plant species and element accumulation ability. Environmental Monitoring and Assessment, 2019, 191, 181.	1.3	8

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109	Nitrification of the liquid phase of digestate can help with the reduction of nitrogen losses. Environmental Technology and Innovation, 2020, 17, 100514.	3.0	8
110	Changes in availability of Ca, K, Mg, P and S in sewage sludge as affected by pyrolysis temperature. Plant, Soil and Environment, 2020, 66, 143-148.	1.0	8
111	Co-application of high temperature biochar with 3,4-dimethylpyrazole-phosphate treated ammonium sulphate improves nitrogen use efficiency in maize. Scientific Reports, 2021, 11, 5711.	1.6	8
112	A comparison of arsenic mobility in Phaseolus vulgaris, Mentha aquatica, and Pteris cretica rhizosphere. Open Life Sciences, 2009, 4, 107-116.	0.6	7
113	The Impact of an Abandoned Uranium Mining Area on the Contamination of Agricultural Land in its Surroundings. Water, Air, and Soil Pollution, 2011, 215, 693-700.	1.1	7
114	Removal of Al, Fe and Mn by Pistia stratiotes L. and its stress response. Open Life Sciences, 2012, 7, 1037-1045.	0.6	7
115	The Contents of Selected Risk Elements and Organic Pollutants in Soil and Vegetation within a Former Military Area. Soil and Sediment Contamination, 2015, 24, 325-342.	1.1	7
116	The response of mercury (Hg) transformation in soil to sulfur compounds and sulfur-rich biowaste application. Environmental Earth Sciences, 2016, 75, 1.	1.3	7
117	Risk element sorption/desorption characteristics of dry olive residue: a technique for the potential immobilization of risk elements in contaminated soils. Environmental Science and Pollution Research, 2016, 23, 22614-22622.	2.7	7
118	Effects of Organic Matter-Rich Amendments on Selenium Mobility in Soils. Pedosphere, 2019, 29, 740-751.	2.1	7
119	Response of Soil Microbes and Soil Enzymatic Activity to 20 Years of Fertilization. Agronomy, 2020, 10, 1542.	1.3	7
120	Cultivation of Medicinal Mushrooms on Spruce Sawdust Fermented with a Liquid Digestate from Biogas Stations. International Journal of Medicinal Mushrooms, 2019, 21, 215-223.	0.9	7
121	Soil microbial communities following 20Âyears of fertilization and crop rotation practices in the Czech Republic. Environmental Microbiomes, 2022, 17, 13.	2.2	7
122	Bioavailability of Lead and Cadmium in Soils Artificially Contaminated with Smelter Fly Ash. Bulletin of Environmental Contamination and Toxicology, 2009, 83, 286-290.	1.3	6
123	The contents of risk elements, arsenic speciation, and possible interactions of elements and betalains in beetroot (Beta vulgaris, L.) growing in contaminated soil. Open Life Sciences, 2010, 5, 692-701.	0.6	6
124	Lead Accumulation Ability of Selected Plants of<i>Noccaea</i>spp.. Soil and Sediment Contamination, 2016, 25, 882-890.	1.1	6
125	Trace element leaching from contaminated willow and poplar biomass â€“ A laboratory study of potential risks. Biomass and Bioenergy, 2018, 112, 11-18.	2.9	6
126	The effect of soil risk element contamination level on the element contents in Ocimum basilicum L.. Archives of Environmental Protection, 2015, 41, 47-53.	1.1	5

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127	Determination of Plant-Available Nutrients in Two Wood Ashes: The Influence of Combustion Conditions. Communications in Soil Science and Plant Analysis, 2016, 47, 1664-1674.	0.6	5
128	Can liming change root anatomy, biomass allocation and trace element distribution among plant parts of Salix Ã— smithiana in trace element-polluted soils?. Environmental Science and Pollution Research, 2017, 24, 19201-19210.	2.7	5
129	The soil-plant transfer of risk elements within the area of an abandoned gold mine in LibÄice, Czech Republic. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2018, 53, 1267-1276.	0.9	5
130	Changes in soil carbon and nitrogen accessibility with the application of biochars with different morphological and physical characteristics. Journal of Soils and Sediments, 2021, 21, 1644-1658.	1.5	5
131	Effect of soil properties and sample preparation on extractable and soluble Pb and Cd fractions in soils. Agricultural Sciences, 2010, 01, 119-130.	0.2	5
132	Biochar applications enhance the phytoextraction potential of Salix smithiana [Willd.] (willow) in heavily contaminated soil: potential for a sustainable remediation method?. Journal of Soils and Sediments, 2022, 22, 905-915.	1.5	5
133	Separation of organic compounds binding trace elements in seeds ofLeuzea carthamoides(Willd.) DC. Applied Organometallic Chemistry, 2004, 18, 619-625.	1.7	4
134	The Response of Macro- and Micronutrient Nutrient Status and Biochemical Processes in Rats Fed on a Diet with Selenium-Enriched Defatted Rapeseed and/or Vitamin E Supplementation. BioMed Research International, 2017, 2017, 1-13.	0.9	4
135	Metabolic transformation and urinary excretion of selenium (Se) in rats fed a Se-enriched defatted rapeseed (Brassica napus, L.) diet. Metallomics, 2018, 10, 579-586.	1.0	4
136	The risk assessment of inorganic and organic pollutant levels in an urban area affected by intensive industry. Environmental Monitoring and Assessment, 2021, 193, 68.	1.3	4
137	Development of a procedure for the sequential extraction of substances binding trace elements in plant biomass. Analytical and Bioanalytical Chemistry, 2005, 381, 863-872.	1.9	3
138	Regulation of macro, micro, and toxic element uptake by Salix Ã— smithiana using liming of heavily contaminated soils. Journal of Soils and Sediments, 2017, 17, 1279-1290.	1.5	3
139	Anaerobic digestion of grass: the effect of temperature applied during the storage of substrate on the methane production. Environmental Technology (United Kingdom), 2017, 38, 1716-1724.	1.2	3
140	Combined effects of carbonaceous-immobilizing agents and subsequent sulphur application on maize phytoextraction efficiency in highly contaminated soil. Environmental Science and Pollution Research, 2019, 26, 20866-20878.	2.7	3
141	Thermal thickening of nitrified liquid phase of digestate for production of concentrated complex fertiliser and high-quality technological water. Journal of Environmental Management, 2020, 276, 111250.	3.8	3
142	Exchangeable and Plant-Available Macronutrients in a Long-Term Tillage and Crop Rotation Experiment after 15 Years. Plants, 2022, 11, 565.	1.6	3
143	Is the harvest of Salix and Populus clones in the growing season truly advantageous for the phytoextraction of metals from a long-term perspective?. Science of the Total Environment, 2022, 838, 156630.	3.9	3
144	EFFECT OF ROCK PHOSPHATE AND SUPERPHOSPHATE APPLICATION ON MOBILITY OF ELEMENTS (Cd, Zn, Pb,) Tj ETQq0 0 0 rgBT /Over 2901-2910.	0.2	2

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145	MONITORING OF MOBILIZATION AND UPTAKE OF NUTRIENTS IN RESPONSE TO EDTA ADDITIONS TO A CONTAMINATED AGRICULTURAL SOIL. Environmental Engineering and Management Journal, 2017, 16, 2475-2483.	0.2	2
146	Binding forms of risk elements in root fractions of Leuzea carthamoides (Willd.) DC. International Biodeterioration and Biodegradation, 2004, 54, 239-243.	1.9	1
147	Distribution of arsenic compounds inPlantaginaceaeandCyperaceaeplants growing in contaminated soil. Chemistry and Ecology, 2016, 32, 919-936.	0.6	1
148	Metal sorption onto soils loaded with urban particulate matter. Chemie Der Erde, 2015, 75, 29-33.	0.8	0