

David Houben

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

2,520
citations

279798

23
h-index

345221

36
g-index

36
all docs

36
docs citations

36
times ranked

3325
citing authors

#	ARTICLE	IF	CITATIONS
1	Mobility, bioavailability and pH-dependent leaching of cadmium, zinc and lead in a contaminated soil amended with biochar. <i>Chemosphere</i> , 2013, 92, 1450-1457.	8.2	586
2	Beneficial effects of biochar application to contaminated soils on the bioavailability of Cd, Pb and Zn and the biomass production of rapeseed (<i>Brassica napus</i> L.). <i>Biomass and Bioenergy</i> , 2013, 57, 196-204.	5.7	330
3	Plant Functional Traits: Soil and Ecosystem Services. <i>Trends in Plant Science</i> , 2017, 22, 385-394.	8.8	311
4	Heavy metal immobilization by cost-effective amendments in a contaminated soil: Effects on metal leaching and phytoavailability. <i>Journal of Geochemical Exploration</i> , 2012, 123, 87-94.	3.2	197
5	Impact of biochar and root-induced changes on metal dynamics in the rhizosphere of <i>Agrostis capillaris</i> and <i>Lupinus albus</i> . <i>Chemosphere</i> , 2015, 139, 644-651.	8.2	94
6	Biochar from <i>Miscanthus</i> : a potential silicon fertilizer. <i>Plant and Soil</i> , 2014, 374, 871-882.	3.7	86
7	Advances and Perspectives to Improve the Phosphorus Availability in Cropping Systems for Agroecological Phosphorus Management. <i>Advances in Agronomy</i> , 2015, 134, 51-79.	5.2	76
8	Potential use of mealworm frass as a fertilizer: Impact on crop growth and soil properties. <i>Scientific Reports</i> , 2020, 10, 4659.	3.3	73
9	Comparison of EDTA-enhanced phytoextraction and phytostabilisation strategies with <i>Lolium perenne</i> on a heavy metal contaminated soil. <i>Chemosphere</i> , 2011, 85, 1290-1298.	8.2	65
10	Evaluation of the long-term effect of biochar on properties of temperate agricultural soil at pre-industrial charcoal kiln sites in Wallonia, Belgium. <i>European Journal of Soil Science</i> , 2017, 68, 80-89.	3.9	55
11	The effect of pre-industrial charcoal kilns on chemical properties of forest soil of Wallonia, Belgium. <i>European Journal of Soil Science</i> , 2016, 67, 206-216.	3.9	54
12	Leachability of cadmium, lead, and zinc in a long-term spontaneously revegetated slag heap: implications for phytostabilization. <i>Journal of Soils and Sediments</i> , 2013, 13, 543-554.	3.0	48
13	Impact of Root-Induced Mobilization of Zinc on Stable Zn Isotope Variation in the Soil-Plant System. <i>Environmental Science & Technology</i> , 2014, 48, 7866-7873.	10.0	47
14	Zinc mineral weathering as affected by plant roots. <i>Applied Geochemistry</i> , 2012, 27, 1587-1592.	3.0	44
15	Characterization of metal binding sites onto biochar using rare earth elements as a fingerprint. <i>Heliyon</i> , 2018, 4, e00543.	3.2	41
16	Efficiency of KOH-modified rice straw-derived biochar for reducing cadmium mobility, bioaccessibility and bioavailability risk index in red soil. <i>Pedosphere</i> , 2020, 30, 874-882.	4.0	41
17	The influence of weathering and soil organic matter on Zn isotopes in soils. <i>Chemical Geology</i> , 2017, 466, 140-148.	3.3	36
18	Response of phosphorus dynamics to sewage sludge application in an agroecosystem in northern France. <i>Applied Soil Ecology</i> , 2019, 137, 178-186.	4.3	34

#	ARTICLE	IF	CITATIONS
19	Tradeoffs among phosphorus-acquisition root traits of crop species for agroecological intensification. <i>Plant and Soil</i> , 2021, 461, 137-150.	3.7	32
20	Phytolith-rich biochar increases cotton biomass and silicon mineral mass in a highly weathered soil. <i>Journal of Plant Nutrition and Soil Science</i> , 2018, 181, 537-546.	1.9	30
21	Modeling of cobalt and copper speciation in metalliferous soils from Katanga (Democratic Republic of the Congo). <i>Journal of Geochemical Exploration</i> , 2021, 228, 103731.	3.2	28
22	Transpiration flow controls Zn transport in <i>Brassica napus</i> and <i>Lolium multiflorum</i> under toxic levels as evidenced from isotopic fractionation. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 386-396.	1.2	28
23	Linking biochar properties to biomass of basil, lettuce and pansy cultivated in growing media. <i>Scientia Horticulturae</i> , 2020, 261, 109001.	3.6	27
24	Assessment of the Short-Term Fertilizer Potential of Mealworm Frass Using a Pot Experiment. <i>Frontiers in Sustainable Food Systems</i> , 2021, 5, .	3.9	21
25	Response of Organic Matter Decomposition to No-Tillage Adoption Evaluated by the Tea Bag Technique. <i>Soil Systems</i> , 2018, 2, 42.	2.6	19
26	Unravelling the Role of Rhizosphere Microbiome and Root Traits in Organic Phosphorus Mobilization for Sustainable Phosphorus Fertilization. A Review. <i>Agronomy</i> , 2021, 11, 2267.	3.0	17
27	Interactions between below-ground traits and rhizosphere fungal and bacterial communities for phosphorus acquisition. <i>Functional Ecology</i> , 2021, 35, 1603-1619.	3.6	15
28	Earthworms (<i>Lumbricus terrestris</i> L.) Mediate the Fertilizing Effect of Frass. <i>Agronomy</i> , 2020, 10, 783.	3.0	14
29	Fertilizer Potential of Struvite as Affected by Nitrogen Form in the Rhizosphere. <i>Sustainability</i> , 2020, 12, 2212.	3.2	13
30	Predicting the degree of phosphorus saturation using the ammonium acetate-EDTA soil test. <i>Soil Use and Management</i> , 2011, 27, 283-293.	4.9	11
31	Metal immobilization and nitrate reduction in a contaminated soil amended with zero-valent iron (Fe ⁰). <i>Ecotoxicology and Environmental Safety</i> , 2020, 201, 110868.	6.0	11
32	Biochar-Compost Interactions as Affected by Weathering: Effects on Biological Stability and Plant Growth. <i>Agronomy</i> , 2021, 11, 336.	3.0	11
33	Earthworm communities and microbial metabolic activity and diversity under conventional, feed and biogas cropping systems as affected by tillage practices. <i>Applied Soil Ecology</i> , 2022, 169, 104232.	4.3	9
34	New insights into sorption and desorption of organic phosphorus on goethite, gibbsite, kaolinite and montmorillonite. <i>Applied Geochemistry</i> , 2022, 143, 105378.	3.0	9
35	Editorial: Frass: The Legacy of Larvae – Benefits and Risks of Residues From Insect Production. <i>Frontiers in Sustainable Food Systems</i> , 2022, 6, .	3.9	1