

# David Houben

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

1,846  
citations

20  
h-index

36  
g-index

36  
ext. papers

2,190  
ext. citations

4.8  
avg, IF

5.47  
L-index

#	Paper	IF	Citations
34	Mobility, bioavailability and pH-dependent leaching of cadmium, zinc and lead in a contaminated soil amended with biochar. <i>Chemosphere</i> , <b>2013</b> , 92, 1450-7	8.4	480
33	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> , <b>2013</b> , 57, 196-204	5.3	278
32	Plant Functional Traits: Soil and Ecosystem Services. <i>Trends in Plant Science</i> , <b>2017</b> , 22, 385-394	13.1	203
31	Heavy metal immobilization by cost-effective amendments in a contaminated soil: Effects on metal leaching and phytoavailability. <i>Journal of Geochemical Exploration</i> , <b>2012</b> , 123, 87-94	3.8	171
30	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> , <b>2015</b> , 139, 644-51	8.4	74
29	Biochar from <i>Miscanthus</i> : a potential silicon fertilizer. <i>Plant and Soil</i> , <b>2014</b> , 374, 871-882	4.2	70
28	Comparison of EDTA-enhanced phytoextraction and phytostabilisation strategies with <i>Lolium perenne</i> on a heavy metal contaminated soil. <i>Chemosphere</i> , <b>2011</b> , 85, 1290-8	8.4	57
27	Advances and Perspectives to Improve the Phosphorus Availability in Cropping Systems for Agroecological Phosphorus Management. <i>Advances in Agronomy</i> , <b>2015</b> , 134, 51-79	7.7	46
26	Potential use of mealworm frass as a fertilizer: Impact on crop growth and soil properties. <i>Scientific Reports</i> , <b>2020</b> , 10, 4659	4.9	40
25	The effect of pre-industrial charcoal kilns on chemical properties of forest soil of Wallonia, Belgium. <i>European Journal of Soil Science</i> , <b>2016</b> , 67, 206-216	3.4	40
24	Impact of root-induced mobilization of zinc on stable Zn isotope variation in the soil-plant system. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 7866-73	10.3	38
23	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> , <b>2017</b> , 68, 80-89	3.4	37
22	Zinc mineral weathering as affected by plant roots. <i>Applied Geochemistry</i> , <b>2012</b> , 27, 1587-1592	3.5	36
21	Leachability of cadmium, lead, and zinc in a long-term spontaneously revegetated slag heap: implications for phytostabilization. <i>Journal of Soils and Sediments</i> , <b>2013</b> , 13, 543-554	3.4	33
20	Characterization of metal binding sites onto biochar using rare earth elements as a fingerprint. <i>Heliyon</i> , <b>2018</b> , 4, e00543	3.6	31
19	Phytolith-rich biochar increases cotton biomass and silicon-mineralomass in a highly weathered soil. <i>Journal of Plant Nutrition and Soil Science</i> , <b>2018</b> , 181, 537-546	2.3	25
18	Response of phosphorus dynamics to sewage sludge application in an agroecosystem in northern France. <i>Applied Soil Ecology</i> , <b>2019</b> , 137, 178-186	5	24

17	Transpiration flow controls Zn transport in Brassica napus and Lolium multiflorum under toxic levels as evidenced from isotopic fractionation. <i>Comptes Rendus - Geoscience</i> , <b>2015</b> , 347, 386-396	1.4	24
16	Modeling of cobalt and copper speciation in metalliferous soils from Katanga (Democratic Republic of Congo). <i>Journal of Geochemical Exploration</i> , <b>2015</b> , 149, 87-96	3.8	24
15	The influence of weathering and soil organic matter on Zn isotopes in soils. <i>Chemical Geology</i> , <b>2017</b> , 466, 140-148	4.2	21
14	Efficiency of KOH-modified rice straw-derived biochar for reducing cadmium mobility, bioaccessibility and bioavailability risk index in red soil. <i>Pedosphere</i> , <b>2020</b> , 30, 874-882	5	17
13	Linking biochar properties to biomass of basil, lettuce and pansy cultivated in growing media. <i>Scientia Horticulturae</i> , <b>2020</b> , 261, 109001	4.1	16
12	Tradeoffs among phosphorus-acquisition root traits of crop species for agroecological intensification. <i>Plant and Soil</i> , <b>2021</b> , 461, 137-150	4.2	13
11	Response of Organic Matter Decomposition to No-Tillage Adoption Evaluated by the Tea Bag Technique. <i>Soil Systems</i> , <b>2018</b> , 2, 42	3.5	9
10	Earthworms ( <i>Lumbricus terrestris</i> L.) Mediate the Fertilizing Effect of Frass. <i>Agronomy</i> , <b>2020</b> , 10, 783	3.6	8
9	Fertilizer Potential of Struvite as Affected by Nitrogen Form in the Rhizosphere. <i>Sustainability</i> , <b>2020</b> , 12, 2212	3.6	7
8	Assessment of the Short-Term Fertilizer Potential of Mealworm Frass Using a Pot Experiment. <i>Frontiers in Sustainable Food Systems</i> , <b>2021</b> , 5,	4.8	6
7	Predicting the degree of phosphorus saturation using the ammonium acetate-EDTA soil test. <i>Soil Use and Management</i> , <b>2011</b> , 27, no-no	3.1	4
6	Biochar-Compost Interactions as Affected by Weathering: Effects on Biological Stability and Plant Growth. <i>Agronomy</i> , <b>2021</b> , 11, 336	3.6	4
5	Interactions between below-ground traits and rhizosphere fungal and bacterial communities for phosphorus acquisition. <i>Functional Ecology</i> , <b>2021</b> , 35, 1603-1619	5.6	3
4	Effet du biochar sur la biodisponibilité du phosphore dans un sol limoneux acide. <i>Biotechnology, Agronomy and Society and Environment</i> , <b>2017</b> , 209-217	1.3	3
3	Metal immobilization and nitrate reduction in a contaminated soil amended with zero-valent iron (Fe). <i>Ecotoxicology and Environmental Safety</i> , <b>2020</b> , 201, 110868	7	2
2	Unravelling the Role of Rhizosphere Microbiome and Root Traits in Organic Phosphorus Mobilization for Sustainable Phosphorus Fertilization. A Review. <i>Agronomy</i> , <b>2021</b> , 11, 2267	3.6	2
1	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> , <b>2022</b> , 169, 104232	5	0