

Franz Zehetner

List of Publications by Year in descending order

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49
papers

2,848
citations

279798
23
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docs citations

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times ranked

4139
citing authors

#	ARTICLE	IF	CITATIONS
1	Soil formation, nutrient supply and ecosystem productivity on basaltic lava vs rhyolitic pumice on Alcedo Volcano, Gal�pagos. <i>Soil Research</i> , 2022, 60, 173-186.	1.1	1
2	Soil organic carbon and fine particle stocks along a volcanic chrono- and elevation-sequence on the Gal�pagos archipelago/Ecuador. <i>Geoderma Regional</i> , 2022, 29, e00508.	2.1	2
3	Microbial necromass formation, enzyme activities and community structure in two alpine elevation gradients with different bedrock types. <i>Geoderma</i> , 2021, 386, 114922.	5.1	26
4	Temperature sensitivity of CO ₂ efflux in soils from two alpine elevation levels with distinct bedrock types. <i>Applied Soil Ecology</i> , 2021, 162, 103875.	4.3	3
5	Heavy metal contents, mobility and origin in agricultural topsoils of the Gal�pagos Islands. <i>Chemosphere</i> , 2021, 272, 129821.	8.2	22
6	Phosphate sorption�desorption properties in volcanic topsoils along a chronosequence and a climatic gradient on the Gal�pagos Islands. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 479-491.	1.9	3
7	Soil development and mineral transformations along a one�million�year chronosequence on the Gal�pagos Islands. <i>Soil Science Society of America Journal</i> , 2021, 85, 2077-2099.	2.2	13
8	Cadmium retention and microbial response in volcanic soils along gradients of soil age and climate on the Gal�pagos Islands. <i>Journal of Environmental Quality</i> , 2021, 50, 1233-1245.	2.0	2
9	Soil Fertility Changes With Climate and Island Age in Gal�pagos: New Baseline Data for Sustainable Agricultural Management. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	2
10	Changes in topsoil characteristics with climate and island age in the agricultural zones of the Gal�pagos. <i>Geoderma</i> , 2020, 376, 114534.	5.1	8
11	Impact of soil development on Cu sorption along gradients of soil age and moisture on the Gal�pagos Islands. <i>Catena</i> , 2020, 189, 104507.	5.0	9
12	Linking rock age and soil cover across four islands on the Gal�pagos archipelago. <i>Journal of South American Earth Sciences</i> , 2020, 99, 102500.	1.4	13
13	Agriculture changes soil properties on the Gal�pagos Islands �� two case studies. <i>Soil Research</i> , 2019, 57, 201.	1.1	21
14	Variations in soil and microbial biomass C, N and fungal biomass ergosterol along elevation and depth gradients in Alpine ecosystems. <i>Geoderma</i> , 2019, 345, 93-103.	5.1	26
15	Weathering and soil formation in rhyolitic tephra along a moisture gradient on Alcedo Volcano, Gal�pagos. <i>Geoderma</i> , 2019, 343, 215-225.	5.1	17
16	Temporal Changes in the Efficiency of Biochar- and Compost-Based Amendments on Copper Immobilization in Vineyard Soils. <i>Soil Systems</i> , 2019, 3, 78.	2.6	1
17	Spatial distribution of microbial biomass and residues across soil aggregate fractions at different elevations in the Central Austrian Alps. <i>Geoderma</i> , 2019, 339, 1-8.	5.1	55
18	Enhanced Cu and Cd sorption after soil aging of woodchip-derived biochar: What were the driving factors?. <i>Chemosphere</i> , 2019, 216, 463-471.	8.2	71

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19	Biochar application increases sorption of nitrification inhibitor 3,4-dimethylpyrazole phosphate in soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11173-11177.	5.3	21
20	Compost and biochar interactions with copper immobilisation in copper-enriched vineyard soils. <i>Applied Geochemistry</i> , 2018, 88, 40-48.	3.0	35
21	Activated biochar alters activities of carbon and nitrogen acquiring soil enzymes. <i>Pedobiologia</i> , 2018, 69, 1-10.	1.2	31
22	Soil and biomass carbon re-accumulation after landslide disturbances. <i>Geomorphology</i> , 2017, 288, 164-174.	2.6	24
23	Changes in biochar physical and chemical properties: Accelerated biochar aging in an acidic soil. <i>Carbon</i> , 2017, 115, 209-219.	10.3	128
24	Distribution of organic carbon and lignin in soils in a subtropical small mountainous river basin. <i>Geoderma</i> , 2017, 306, 81-88.	5.1	9
25	Biochar Applications to Agricultural Soils in Temperate Climates – More Than Carbon Sequestration?. , 2016, , 291-314.		2
26	Long-term effects of biochar on soil physical properties. <i>Geoderma</i> , 2016, 282, 96-102.	5.1	317
27	Soil organic carbon and microbial communities respond to vineyard management. <i>Soil Use and Management</i> , 2015, 31, 528-533.	4.9	18
28	Effects of Biochars and Compost Mixtures and Inorganic Additives on Immobilisation of Heavy Metals in Contaminated Soils. <i>Water, Air, and Soil Pollution</i> , 2015, 226, 1.	2.4	60
29	Biochar application reduces protein sorption in soil. <i>Organic Geochemistry</i> , 2015, 87, 21-24.	1.8	19
30	Decomposition of beech (<i>Fagus sylvatica</i>) and pine (<i>Pinus nigra</i>) litter along an Alpine elevation gradient: Decay and nutrient release. <i>Geoderma</i> , 2015, 251-252, 92-104.	5.1	55
31	Trace element biogeochemistry in the soil-water-plant system of a temperate agricultural soil amended with different biochars. <i>Environmental Science and Pollution Research</i> , 2015, 22, 4513-4526.	5.3	24
32	Biochar application to temperate soils: Effects on soil fertility and crop growth under greenhouse conditions. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 3-15.	1.9	175
33	Trace element concentrations in leachates and mustard plant tissue (<i>Sinapis alba</i> L.) after biochar application to temperate soils. <i>Science of the Total Environment</i> , 2014, 481, 498-508.	8.0	56
34	Lignin decomposition along an Alpine elevation gradient in relation to physicochemical and soil microbial parameters. <i>Global Change Biology</i> , 2014, 20, 2272-2285.	9.5	26
35	<i>In situ</i> carbon turnover dynamics and the role of soil microorganisms therein: a climate warming study in an Alpine ecosystem. <i>FEMS Microbiology Ecology</i> , 2013, 83, 112-124.	2.7	48
36	Characterization of Slow Pyrolysis Biochars: Effects of Feedstocks and Pyrolysis Temperature on Biochar Properties. <i>Journal of Environmental Quality</i> , 2012, 41, 990-1000.	2.0	736

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37	Mid-infrared spectroscopy for topsoil layer identification according to litter type and decomposition stage demonstrated on a large sample set of Austrian forest soils. <i>Geoderma</i> , 2011, 166, 162-170.	5.1	11
38	Recent Developments of No-Till and Organic Farming in India: Is a Combination of These Approaches Viable?. <i>Agroecology and Sustainable Food Systems</i> , 2011, 35, 576-612.	0.9	2
39	Soil organicâ€matter stocks and characteristics along an Alpine elevation gradient. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 30-38.	1.9	133
40	Microbial community composition and activity in different Alpine vegetation zones. <i>Soil Biology and Biochemistry</i> , 2010, 42, 155-161.	8.8	156
41	Does organic carbon sequestration in volcanic soils offset volcanic CO2 emissions?. <i>Quaternary Science Reviews</i> , 2010, 29, 1313-1316.	3.0	40
42	Distribution of Road Salt Residues, Heavy Metals and Polycyclic Aromatic Hydrocarbons across a Highway-Forest Interface. <i>Water, Air, and Soil Pollution</i> , 2009, 198, 125-132.	2.4	85
43	Phosphorus sorptionâ€desorption in alluvial soils of a young weathering sequence at the Danube River. <i>Geoderma</i> , 2009, 149, 39-44.	5.1	87
44	Dating of soil layers in a young floodplain using iron oxide crystallinity. <i>Quaternary Geochronology</i> , 2009, 4, 260-266.	1.4	57
45	Rapid carbon accretion and organic matter pool stabilization in riverine floodplain soils. <i>Global Biogeochemical Cycles</i> , 2009, 23, .	4.9	80
46	Spectroscopic behaviour of 14C-labeled humic acids in a long-term field experiment with three cropping systems. <i>Soil Research</i> , 2009, 47, 459.	1.1	22
47	From sediment to soil: floodplain phosphorus transformations at the Danube River. <i>Biogeochemistry</i> , 2008, 88, 117-126.	3.5	31
48	Soil and phosphorus redistribution along a steep tea plantation in the Feitsui reservoir catchment of northern Taiwan. <i>Soil Science and Plant Nutrition</i> , 2008, 54, 618-626.	1.9	17
49	Erodibility and runoff-infiltration characteristics of volcanic ash soils along an altitudinal climosequence in the Ecuadorian Andes. <i>Catena</i> , 2006, 65, 201-213.	5.0	48