

Franz Zehetner

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,848
citations

279487

23
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205818

48
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49
all docs

49
docs citations

49
times ranked

4139
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Characterization of Slow Pyrolysis Biochars: Effects of Feedstocks and Pyrolysis Temperature on Biochar Properties. <i>Journal of Environmental Quality</i> , 2012, 41, 990-1000. | 1.0 | 736 |
| 2 | Long-term effects of biochar on soil physical properties. <i>Geoderma</i> , 2016, 282, 96-102. | 2.3 | 317 |
| 3 | 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. | 1.1 | 175 |
| 4 | Microbial community composition and activity in different Alpine vegetation zones. <i>Soil Biology and Biochemistry</i> , 2010, 42, 155-161. | 4.2 | 156 |
| 5 | Soil organic matter stocks and characteristics along an Alpine elevation gradient. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 30-38. | 1.1 | 133 |
| 6 | Changes in biochar physical and chemical properties: Accelerated biochar aging in an acidic soil. <i>Carbon</i> , 2017, 115, 209-219. | 5.4 | 128 |
| 7 | Phosphorus sorption-desorption in alluvial soils of a young weathering sequence at the Danube River. <i>Geoderma</i> , 2009, 149, 39-44. | 2.3 | 87 |
| 8 | 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. | 1.1 | 85 |
| 9 | Rapid carbon accretion and organic matter pool stabilization in riverine floodplain soils. <i>Global Biogeochemical Cycles</i> , 2009, 23, . | 1.9 | 80 |
| 10 | Enhanced Cu and Cd sorption after soil aging of woodchip-derived biochar: What were the driving factors?. <i>Chemosphere</i> , 2019, 216, 463-471. | 4.2 | 71 |
| 11 | 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. | 1.1 | 60 |
| 12 | Dating of soil layers in a young floodplain using iron oxide crystallinity. <i>Quaternary Geochronology</i> , 2009, 4, 260-266. | 0.6 | 57 |
| 13 | 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. | 3.9 | 56 |
| 14 | 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. | 2.3 | 55 |
| 15 | 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. | 2.3 | 55 |
| 16 | Erodibility and runoff-infiltration characteristics of volcanic ash soils along an altitudinal climosequence in the Ecuadorian Andes. <i>Catena</i> , 2006, 65, 201-213. | 2.2 | 48 |
| 17 | <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. | 1.3 | 48 |
| 18 | Does organic carbon sequestration in volcanic soils offset volcanic CO ₂ emissions?. <i>Quaternary Science Reviews</i> , 2010, 29, 1313-1316. | 1.4 | 40 |

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|----|---|-----|-----------|
| 19 | Compost and biochar interactions with copper immobilisation in copper-enriched vineyard soils. <i>Applied Geochemistry</i> , 2018, 88, 40-48. | 1.4 | 35 |
| 20 | From sediment to soil: floodplain phosphorus transformations at the Danube River. <i>Biogeochemistry</i> , 2008, 88, 117-126. | 1.7 | 31 |
| 21 | Activated biochar alters activities of carbon and nitrogen acquiring soil enzymes. <i>Pedobiologia</i> , 2018, 69, 1-10. | 0.5 | 31 |
| 22 | Lignin decomposition along an Alpine elevation gradient in relation to physicochemical and soil microbial parameters. <i>Global Change Biology</i> , 2014, 20, 2272-2285. | 4.2 | 26 |
| 23 | 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. | 2.3 | 26 |
| 24 | Microbial necromass formation, enzyme activities and community structure in two alpine elevation gradients with different bedrock types. <i>Geoderma</i> , 2021, 386, 114922. | 2.3 | 26 |
| 25 | 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. | 2.7 | 24 |
| 26 | Soil and biomass carbon re-accumulation after landslide disturbances. <i>Geomorphology</i> , 2017, 288, 164-174. | 1.1 | 24 |
| 27 | Spectroscopic behaviour of ¹⁴ C-labeled humic acids in a long-term field experiment with three cropping systems. <i>Soil Research</i> , 2009, 47, 459. | 0.6 | 22 |
| 28 | Heavy metal contents, mobility and origin in agricultural topsoils of the Galápagos Islands. <i>Chemosphere</i> , 2021, 272, 129821. | 4.2 | 22 |
| 29 | Biochar application increases sorption of nitrification inhibitor 3,4-dimethylpyrazole phosphate in soil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11173-11177. | 2.7 | 21 |
| 30 | Agriculture changes soil properties on the Galápagos Islands – two case studies. <i>Soil Research</i> , 2019, 57, 201. | 0.6 | 21 |
| 31 | Biochar application reduces protein sorption in soil. <i>Organic Geochemistry</i> , 2015, 87, 21-24. | 0.9 | 19 |
| 32 | Soil organic carbon and microbial communities respond to vineyard management. <i>Soil Use and Management</i> , 2015, 31, 528-533. | 2.6 | 18 |
| 33 | 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. | 0.8 | 17 |
| 34 | Weathering and soil formation in rhyolitic tephra along a moisture gradient on Alcedo Volcano, Galápagos. <i>Geoderma</i> , 2019, 343, 215-225. | 2.3 | 17 |
| 35 | Linking rock age and soil cover across four islands on the Galápagos archipelago. <i>Journal of South American Earth Sciences</i> , 2020, 99, 102500. | 0.6 | 13 |
| 36 | Soil development and mineral transformations along a one-million-year chronosequence on the Galápagos Islands. <i>Soil Science Society of America Journal</i> , 2021, 85, 2077-2099. | 1.2 | 13 |

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|----|--|-----|-----------|
| 37 | Mid-infrared spectroscopy for topsoil layer identification according to litter type and decompositional stage demonstrated on a large sample set of Austrian forest soils. <i>Geoderma</i> , 2011, 166, 162-170. | 2.3 | 11 |
| 38 | Distribution of organic carbon and lignin in soils in a subtropical small mountainous river basin. <i>Geoderma</i> , 2017, 306, 81-88. | 2.3 | 9 |
| 39 | Impact of soil development on Cu sorption along gradients of soil age and moisture on the Galápagos Islands. <i>Catena</i> , 2020, 189, 104507. | 2.2 | 9 |
| 40 | Changes in topsoil characteristics with climate and island age in the agricultural zones of the Galápagos. <i>Geoderma</i> , 2020, 376, 114534. | 2.3 | 8 |
| 41 | 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. | 2.1 | 3 |
| 42 | Phosphate sorption-desorption properties in volcanic topsoils along a chronosequence and a climatic gradient on the Galápagos Islands. <i>Journal of Plant Nutrition and Soil Science</i> , 2021, 184, 479-491. | 1.1 | 3 |
| 43 | 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 |
| 44 | Biochar Applications to Agricultural Soils in Temperate Climates – More Than Carbon Sequestration?. , 2016, , 291-314. | | 2 |
| 45 | Cadmium retention and microbial response in volcanic soils along gradients of soil age and climate on the Galápagos Islands. <i>Journal of Environmental Quality</i> , 2021, 50, 1233-1245. | 1.0 | 2 |
| 46 | Soil Fertility Changes With Climate and Island Age in Galápagos: New Baseline Data for Sustainable Agricultural Management. <i>Frontiers in Environmental Science</i> , 2021, 9, . | 1.5 | 2 |
| 47 | Soil organic carbon and fine particle stocks along a volcanic chrono- and elevation-sequence on the Galápagos archipelago/Ecuador. <i>Geoderma Regional</i> , 2022, 29, e00508. | 0.9 | 2 |
| 48 | Temporal Changes in the Efficiency of Biochar- and Compost-Based Amendments on Copper Immobilization in Vineyard Soils. <i>Soil Systems</i> , 2019, 3, 78. | 1.0 | 1 |
| 49 | Soil formation, nutrient supply and ecosystem productivity on basaltic lava vs rhyolitic pumice on Alcedo Volcano, Galápagos. <i>Soil Research</i> , 2022, 60, 173-186. | 0.6 | 1 |