Stefan Zimmermann

List of Publications by Year
in descending order

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		236925	206112
53	2,413	25	48
papers	citations	h-index	g-index

53	53	53	3586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Longâ€term recovery of aboveâ€•and belowâ€ground interactions in restored grasslands after topsoil removal and seed addition. Journal of Applied Ecology, 2022, 59, 2299-2308.	4.0	4
2	Characteristics of Soil Structure and Greenhouse Gas Fluxes on Ten-Year Old Skid Trails with and without Black Alders (Alnus glutinosa (L.) Gaertn.). Soil Systems, 2022, 6, 43.	2.6	2
3	Evaluating longâ€term success in grassland restoration: an ecosystem multifunctionality approach. Ecological Applications, 2021, 31, e02271.	3.8	17
4	Habitat specialisation controls ectomycorrhizal fungi above the treeline in the European Alps. New Phytologist, 2021, 229, 2901-2916.	7.3	24
5	Machine learning based soil maps for a wide range of soil properties for the forested area of Switzerland. Geoderma Regional, 2021, 27, e00437.	2.1	16
6	Global impacts of fertilization and herbivore removal on soil net nitrogen mineralization are modulated by local climate and soil properties. Global Change Biology, 2020, 26, 7173-7185.	9.5	25
7	A Critical Evaluation of the Relationship Between the Effective Cation Exchange Capacity and Soil Organic Carbon Content in Swiss Forest Soils. Frontiers in Forests and Global Change, 2020, 3, .	2.3	71
8	Leaf Morphological Traits and Leaf Nutrient Concentrations of European Beech Across a Water Availability Gradient in Switzerland. Frontiers in Forests and Global Change, 2020, 3, .	2.3	12
9	Plant-fungal interactions in hybrid zones: Ectomycorrhizal communities of willows (Salix) in an alpine glacier forefield. Fungal Ecology, 2020, 45, 100936.	1.6	13
10	Soil net nitrogen mineralisation across global grasslands. Nature Communications, 2019, 10, 4981.	12.8	57
11	Base cation dynamics in rainfall, throughfall, litterflow and soil solution under Oriental beech (Fagus orientalis Lipsky) trees in northern Iran. Annals of Forest Science, 2019, 76, 1.	2.0	14
12	Temperature and moisture are minor drivers of regional-scale soil organic carbon dynamics. Scientific Reports, 2019, 9, 6422.	3.3	15
13	Size-dependent loss of aboveground animals differentially affects grassland ecosystem coupling and functions. Nature Communications, 2018, 9, 3684.	12.8	46
14	Assessment of soil multi-functionality to support the sustainable use of soil resources on the Swiss Plateau. Geoderma Regional, 2018, 14, e00181.	2.1	14
15	Spatial micro-distribution of methanotrophic activity along a 120-year afforestation chronosequence. Plant and Soil, 2017, 415, 13-23.	3.7	8
16	Reconstruction of Historic Forest Cover Changes Indicates Minor Effects on Carbon Stocks in Swiss Forest Soils. Ecosystems, 2017, 20, 1512-1528.	3.4	21
17	Ecology of Alpine Macrofungi - Combining Historical with Recent Data. Frontiers in Microbiology, 2017, 8, 2066.	3.5	25
18	Pedotransfer function to predict density of forest soils in Switzerland. Journal of Plant Nutrition and Soil Science, 2016, 179, 321-326.	1.9	7

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19	Does one model fit all? Patterns of beech mortality in natural forests of three European regions. Ecological Applications, 2016, 26, 2465-2479.	3.8	25
20	First evidence that the sodium ecosystem respiration (SER) hypothesis may also hold for a coastal tropical rainforest. Applied Soil Ecology, 2016, 108, 92-95.	4.3	6
21	Consequence of litter removal on pedogenesis: A case study in Bachs and Irchel (Switzerland). Geoderma, 2016, 271, 191-201.	5.1	4
22	Aboveground vertebrate and invertebrate herbivore impact on net N mineralization in subalpine grasslands. Ecology, 2015, 96, 3312-3322.	3.2	38
23	Resistance and resilience of the forest soil microbiome to logging-associated compaction. ISME Journal, 2014, 8, 226-244.	9.8	293
24	Dynamic modelling of the long term behaviour of cadmium, lead and mercury in Swiss forest soils using CHUM-AM. Science of the Total Environment, 2014, 468-469, 864-876.	8.0	11
25	Browsing regime and growth response of naturally regenerated Abies alba saplings along light gradients. Forest Ecology and Management, 2013, 310, 393-404.	3.2	28
26	Afforestation with Norway spruce on a subalpine pasture alters carbon dynamics but only moderately affects soil carbon storage. Biogeochemistry, 2013, 115, 251-266.	3.5	49
27	Increasing soil methane sink along a 120â€year afforestation chronosequence is driven by soil moisture. Global Change Biology, 2012, 18, 3664-3671.	9.5	88
28	Heavy-Machinery Traffic Impacts Methane Emissions as Well as Methanogen Abundance and Community Structure in Oxic Forest Soils. Applied and Environmental Microbiology, 2011, 77, 6060-6068.	3.1	91
29	Chemical and Biological Gradients along the Damma Glacier Soil Chronosequence, Switzerland. Vadose Zone Journal, 2011, 10, 867-883.	2.2	158
30	Determination of organic and inorganic carbon, Î´¹³C, and nitrogen in soils containing carbonates after acid fumigation with HCl. Journal of Plant Nutrition and Soil Science, 2010, 173, 207-216.	1.9	111
31	Kohlenstoff in Schweizer WaldbÃ¶den â€“ bei KlimaerwÃ¤rmung eine potenzielle CO2-Quelle | Soil organic carbon in Swiss forest soils â€“ a potential CO2 source in a warming climate. Schweizerische Zeitschrift Fur Forstwesen, 2010, 161, 530-535.	0.1	12
32	Morphological and physiological responses of Scots pine fine roots to water supply in a dry climatic region in Switzerland. Tree Physiology, 2009, 29, 541-550.	3.1	78
33	Effects of Land-Use Change on Carbon Stocks in Switzerland. Ecosystems, 2008, 11, 895-907.	3.4	47
34	Mercury, cadmium and lead concentrations in different ecophysiological groups of earthworms in forest soils. Environmental Pollution, 2008, 156, 1304-1313.	7.5	81
35	Classification schemes for the acidity, base saturation, and acidification status of forest soils in Switzerland. Journal of Plant Nutrition and Soil Science, 2008, 171, 163-170.	1.9	17
36	Weathering, soil formation and initial ecosystem evolution on a glacier forefield: a case study from the Damma Glacier, Switzerland. Mineralogical Magazine, 2008, 72, 19-22.	1.4	50

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37	Heavy metals in Swiss forest soils: modification of lithogenic and anthropogenic contents by pedogenetic processes, and implications for ecological risk assessment. Geological Society Special Publication, 2006, 266, 63-78.	1.3	3
38	Monitoring of Water Chemistry in Forest Soils: An Indicator for Acidification. Chimia, 2005, 59, 989-989.	0.6	3
39	Forest storm damage is more frequent on acidic soils. Annals of Forest Science, 2005, 62, 303-311.	2.0	72
40	Acidification of Soil Solution in a Chestnut Forest Stand in Southern Switzerland:â€‰ Are There Signs of Recovery?. Environmental Science & Technology, 2005, 39, 7761-7767.	10.0	12
41	Induction of callose in roots of Norway spruce seedlings after short-term exposure to aluminum. Tree Physiology, 2004, 24, 1279-1283.	3.1	34
42	Wood-ash recycling affects forest soil and tree fine-root chemistry and reverses soil acidification. Plant and Soil, 2004, 267, 61-71.	3.7	36
43	Fine root growth and element concentrations of Norway spruce as affected by wood ash and liquid fertilisation. Plant and Soil, 2003, 255, 253-264.	3.7	43
44	The effects of fertiliser or wood ash on nitrate reductase activity in Norway spruce fine roots. Forest Ecology and Management, 2003, 175, 413-423.	3.2	12
45	Soil respiration and microbial properties in an acid forest soil: effects of wood ash. Soil Biology and Biochemistry, 2002, 34, 1727-1737.	8.8	131
46	Macronutrient inputs by litterfall as opposed to atmospheric deposition into two contrasting chestnut forest stands in southern Switzerland. Forest Ecology and Management, 2002, 161, 289-302.	3.2	27
47	Sorption and transport of metals in preferential flow paths and soil matrix after the addition of wood ash. European Journal of Soil Science, 2001, 52, 423-431.	3.9	24
48	Contemporary carbon stocks of mineral forest soils in the Swiss Alps. Biogeochemistry, 2000, 50, 111-136.	3.5	47
49	Critical examination of trace element enrichments and depletions in soils: As, Cr, Cu, Ni, Pb, and Zn in Swiss forest soils. Science of the Total Environment, 2000, 249, 257-280.	8.0	290
50	Low-temperature magnetic behavior of ferrihydrite. Journal of Geophysical Research, 2000, 105, 8297-8303.	3.3	32
51	Spatial Distribution of 137CS in Forest SOils of Switzerland. Water, Air, and Soil Pollution, 1999, 114, 277-285.	2.4	15
52	Soil Acidification in Southern Switzerland between 1987 and 1997:Â A Case Study Based on the Critical Load Concept. Environmental Science & Technology, 1999, 33, 2383-2389.	10.0	48
53	Analytical Problems in the Determination of Inorganic Soil Contaminants. , 1993, , 201-218.		6