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	Resistance and resilience of the forest soil microbiome to logging-associated compaction. ISME Journal, 2014, 8, 226-244.	9.8	293
2	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
3	Chemical and Biological Gradients along the Damma Glacier Soil Chronosequence, Switzerland. Vadose Zone Journal, 2011, 10, 867-883.	2.2	158
4	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
5	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
6	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
7	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
8	Mercury, cadmium and lead concentrations in different ecophysiological groups of earthworms in forest soils. Environmental Pollution, 2008, 156, 1304-1313.	7.5	81
9	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
10	Forest storm damage is more frequent on acidic soils. Annals of Forest Science, 2005, 62, 303-311.	2.0	72
11	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
12	Soil net nitrogen mineralisation across global grasslands. Nature Communications, 2019, 10, 4981.	12.8	57
13	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
14	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
15	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
16	Contemporary carbon stocks of mineral forest soils in the Swiss Alps. Biogeochemistry, 2000, 50, 111-136.	3.5	47
17	Effects of Land-Use Change on Carbon Stocks in Switzerland. Ecosystems, 2008, 11, 895-907.	3.4	47
18	Size-dependent loss of aboveground animals differentially affects grassland ecosystem coupling and functions. Nature Communications, 2018, 9, 3684.	12.8	46

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19	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
20	Aboveground vertebrate and invertebrate herbivore impact on net N mineralization in subalpine grasslands. Ecology, 2015, 96, 3312-3322.	3.2	38
21	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
22	Induction of callose in roots of Norway spruce seedlings after short-term exposure to aluminum. Tree Physiology, 2004, 24, 1279-1283.	3.1	34
23	Low-temperature magnetic behavior of ferrihydrite. Journal of Geophysical Research, 2000, 105, 8297-8303.	3.3	32
24	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
25	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
26	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
27	Ecology of Alpine Macrofungi - Combining Historical with Recent Data. Frontiers in Microbiology, 2017, 8, 2066.	3.5	25
28	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
29	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
30	Habitat specialisation controls ectomycorrhizal fungi above the treeline in the European Alps. New Phytologist, 2021, 229, 2901-2916.	7.3	24
31	Reconstruction of Historic Forest Cover Changes Indicates Minor Effects on Carbon Stocks in Swiss Forest Soils. Ecosystems, 2017, 20, 1512-1528.	3.4	21
32	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
33	Evaluating longâ€term success in grassland restoration: an ecosystem multifunctionality approach. Ecological Applications, 2021, 31, e02271.	3.8	17
34	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
35	Spatial Distribution of 137CS in Forest SOils of Switzerland. Water, Air, and Soil Pollution, 1999, 114, 277-285.	2.4	15
36	Temperature and moisture are minor drivers of regional-scale soil organic carbon dynamics. Scientific Reports, 2019, 9, 6422.	3.3	15

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37	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
38	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
39	Plant-fungal interactions in hybrid zones: Ectomycorrhizal communities of willows (Salix) in an alpine glacier forefield. Fungal Ecology, 2020, 45, 100936.	1.6	13
40	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
41	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
42	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
43	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
44	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
45	Spatial micro-distribution of methanotrophic activity along a 120-year afforestation chronosequence. Plant and Soil, 2017, 415, 13-23.	3.7	8
46	Pedotransfer function to predict density of forest soils in Switzerland. Journal of Plant Nutrition and Soil Science, 2016, 179, 321-326.	1.9	7
47	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
48	Analytical Problems in the Determination of Inorganic Soil Contaminants. , 1993, , 201-218.		6
49	Consequence of litter removal on pedogenesis: A case study in Bachs and Irchel (Switzerland). Geoderma, 2016, 271, 191-201.	5.1	4
50	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
51	Monitoring of Water Chemistry in Forest Soils: An Indicator for Acidification. Chimia, 2005, 59, 989-989.	0.6	3
52	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
53	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