

# Michael Zimmermann

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

3,506  
citations

236925

25  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

5309  
citing authors

#	ARTICLE	IF	CITATIONS
1	Response of Microbial Communities and Their Metabolic Functions to Drying and Rewetting Stress in a Temperate Forest Soil. <i>Microorganisms</i> , 2019, 7, 129.	3.6	35
2	Current developments in soil ecotoxicology and the need for strengthening soil ecotoxicology in Europe: results of a stakeholder workshop. <i>Environmental Sciences Europe</i> , 2018, 30, 49.	5.5	3
3	Short-term soil mineral and organic nitrogen fluxes during moderate and severe drying and rewetting events. <i>Applied Soil Ecology</i> , 2017, 114, 28-33.	4.3	28
4	High resolution short-term investigation of soil CO <sub>2</sub> , N <sub>2</sub> O, NO <sub>x</sub> and NH <sub>3</sub> emissions after different chabazite zeolite amendments. <i>Applied Soil Ecology</i> , 2017, 119, 138-144.	4.3	33
5	Contribution of litter layer to soil greenhouse gas emissions in a temperate beech forest. <i>Plant and Soil</i> , 2016, 403, 455-469.	3.7	53
6	Soil Water Repellency and its Impact on Hydraulic Characteristics in a Beech Forest under Simulated Climate Change. <i>Vadose Zone Journal</i> , 2015, 14, 1-11.	2.2	8
7	Turnover of Grassland Roots in Mountain Ecosystems Revealed by Their Radiocarbon Signature: Role of Temperature and Management. <i>PLoS ONE</i> , 2015, 10, e0119184.	2.5	30
8	Fire and climate: contrasting pressures on tropical Andean timberline species. <i>Journal of Biogeography</i> , 2015, 42, 938-950.	3.0	16
9	Climate Warming and Soil Carbon in Tropical Forests: Insights from an Elevation Gradient in the Peruvian Andes. <i>BioScience</i> , 2015, 65, 906-921.	4.9	75
10	Charcoal re-combustion efficiency in tropical savannas. <i>Geoderma</i> , 2014, 219-220, 40-45.	5.1	34
11	Vertical variations of soil hydraulic properties within two soil profiles and its relevance for soil water simulations. <i>Journal of Hydrology</i> , 2014, 516, 169-181.	5.4	59
12	The knowns, known unknowns and unknowns of sequestration of soil organic carbon. <i>Agriculture, Ecosystems and Environment</i> , 2013, 164, 80-99.	5.3	1,143
13	Soil Security: Solving the Global Soil Crisis. <i>Global Policy</i> , 2013, 4, 434-441.	1.7	219
14	Rapid degradation of pyrogenic carbon. <i>Global Change Biology</i> , 2012, 18, 3306-3316.	9.5	136
15	Temperature sensitivity of tropical forest soil respiration increase along an altitudinal gradient with ongoing decomposition. <i>Geoderma</i> , 2012, 187-188, 8-15.	5.1	32
16	Can composition and physical protection of soil organic matter explain soil respiration temperature sensitivity?. <i>Biogeochemistry</i> , 2012, 107, 423-436.	3.5	75
17	Microbes do not follow the elevational diversity patterns of plants and animals. <i>Ecology</i> , 2011, 92, 797-804.	3.2	351
18	No Differences in Soil Carbon Stocks Across the Tree Line in the Peruvian Andes. <i>Ecosystems</i> , 2010, 13, 62-74.	3.4	75

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19	Ecosystem Carbon Storage Across the Grasslandâ€“Forest Transition in the High Andes of Manu National Park, Peru. <i>Ecosystems</i> , 2010, 13, 1097-1111.	3.4	88
20	Temporal variation and climate dependence of soil respiration and its components along a 3000 m altitudinal tropical forest gradient. <i>Global Biogeochemical Cycles</i> , 2010, 24, .	4.9	65
21	Litter contribution to diurnal and annual soil respiration in a tropical montane cloud forest. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1338-1340.	8.8	70
22	Climate dependence of heterotrophic soil respiration from a soilâ€“translocation experiment along a 3000 m tropical forest altitudinal gradient. <i>European Journal of Soil Science</i> , 2009, 60, 895-906.	3.9	86
23	Storage and turnover of carbon in grassland soils along an elevation gradient in the Swiss Alps. <i>Global Change Biology</i> , 2009, 15, 668-679.	9.5	98
24	Simulating decomposition of labile soil organic carbon: Effects of pH. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2948-2951.	8.8	48
25	Relative stability of soil carbon revealed by shifts in $\delta^{15}\text{N}$ and C:N ratio. <i>Biogeosciences</i> , 2008, 5, 123-128.	3.3	62
26	Sodium hypochlorite separates an older soil organic matter fraction than acid hydrolysis. <i>Geoderma</i> , 2007, 139, 171-179.	5.1	76
27	Measured soil organic matter fractions can be related to pools in the RothC model. <i>European Journal of Soil Science</i> , 2007, 58, 658-667.	3.9	343
28	Quantifying soil organic carbon fractions by infrared-spectroscopy. <i>Soil Biology and Biochemistry</i> , 2007, 39, 224-231.	8.8	150
29	WATER BALANCE APPROACH TO THE IN SITU ESTIMATION OF VOLUME FLUX DENSITIES USING SLANTED TDR WAVE GUIDES. <i>Soil Science</i> , 2005, 170, 3-12.	0.9	7
30	Directions of preferential flow in a hillslope soil, 1. Quasi-steady flow. <i>Hydrological Processes</i> , 2005, 19, 887-899.	2.6	8