

# Mirjam Helfrich

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

1,773  
citations

304743

22  
h-index

377865

34  
g-index

37  
all docs

37  
docs citations

37  
times ranked

2370  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of land use on the composition of soil organic matter in density and aggregate fractions as revealed by solid-state <sup>13</sup> C NMR spectroscopy. <i>Geoderma</i> , 2006, 136, 331-341.	5.1	204
2	Organic matter in density fractions of water-stable aggregates in silty soils: Effect of land use. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3222-3234.	8.8	177
3	Comparison of chemical fractionation methods for isolating stable soil organic carbon pools. <i>European Journal of Soil Science</i> , 2007, 58, 1316-1329.	3.9	154
4	Effects of beech ( <i>Fagus sylvatica</i> ), ash ( <i>Fraxinus excelsior</i> ) and lime ( <i>Tilia spec.</i> ) on soil chemical properties in a mixed deciduous forest. <i>Plant and Soil</i> , 2012, 352, 389-403.	3.7	125
5	Effect of litter quality and soil fungi on macroaggregate dynamics and associated partitioning of litter carbon and nitrogen. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1823-1835.	8.8	103
6	Storage and stability of organic matter and fossil carbon in a Luvisol and Phaeozem with continuous maize cropping: A synthesis. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 36-51.	1.9	93
7	Near-infrared spectroscopy can predict the composition of organic matter in soil and litter. <i>Journal of Plant Nutrition and Soil Science</i> , 2006, 169, 168-174.	1.9	76
8	Does water repellency of pyrochars and hydrochars counter their positive effects on soil hydraulic properties?. <i>Geoderma</i> , 2015, 245-246, 31-39.	5.1	60
9	Increased microbial anabolism contributes to soil carbon sequestration by mineral fertilization in temperate grasslands. <i>Soil Biology and Biochemistry</i> , 2019, 130, 167-176.	8.8	60
10	Properties and Degradability of Hydrothermal Carbonization Products. <i>Journal of Environmental Quality</i> , 2013, 42, 1565-1573.	2.0	57
11	The role of soil fungi and bacteria in plant litter decomposition and macroaggregate formation determined using phospholipid fatty acids. <i>Applied Soil Ecology</i> , 2015, 96, 261-264.	4.3	56
12	Fluxes of N <sub>2</sub> and N <sub>2</sub> O and contributing processes in summer after grassland renewal and grassland conversion to maize cropping on a Plaggic Anthrosol and a Histic Gleysol. <i>Soil Biology and Biochemistry</i> , 2016, 101, 6-19.	8.8	56
13	Factors controlling the variability of organic matter in the top- and subsoil of a sandy Dystric Cambisol under beech forest. <i>Geoderma</i> , 2018, 311, 37-44.	5.1	55
14	Controlling factors for the stability of subsoil carbon in a Dystric Cambisol. <i>Geoderma</i> , 2017, 304, 40-48.	5.1	54
15	Effect of conventional and minimum tillage on physical and biochemical stabilization of soil organic matter. <i>Biology and Fertility of Soils</i> , 2010, 46, 671-680.	4.3	53
16	Pyrochars and hydrochars differently alter the sorption of the herbicide isoproturon in an agricultural soil. <i>Chemosphere</i> , 2015, 119, 155-162.	8.2	51
17	Effects of fresh and aged chars from pyrolysis and hydrothermal carbonization on nutrient sorption in agricultural soils. <i>Soil</i> , 2015, 1, 475-489.	4.9	46
18	Stability of pyrochar and hydrochar in agricultural soil - a new field incubation method. <i>Geoderma</i> , 2016, 284, 85-92.	5.1	39

#	ARTICLE	IF	CITATIONS
19	Soil mineral N dynamics and N <sub>2</sub> O emissions following grassland renewal. <i>Agriculture, Ecosystems and Environment</i> , 2017, 246, 325-342.	5.3	33
20	Impact of common sample pre-treatments on key soil microbial properties. <i>Soil Biology and Biochemistry</i> , 2021, 160, 108321.	8.8	29
21	Modelling the Long-Term Stabilization of Carbon from Maize in a Silty Soil. <i>Plant and Soil</i> , 2005, 278, 315-325.	3.7	24
22	Translocation of <sup>13</sup> C-labeled leaf or root litter carbon of beech ( <i>Fagus sylvatica</i> L.) and ash ( <i>Fraxinus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf <i>Biochemistry</i> , 2015, 83, 125-137.	8.8	24
23	Microbial carbon recycling “ an underestimated process controlling soil carbon dynamics “ Part 1: A long-term laboratory incubation experiment. <i>Biogeosciences</i> , 2015, 12, 5929-5940.	3.3	22
24	Application of hydrochar and pyrochar to manure is not effective for mitigation of ammonia emissions from cattle slurry and poultry manure. <i>Biology and Fertility of Soils</i> , 2018, 54, 451-465.	4.3	22
25	Is thermal oxidation at different temperatures suitable to isolate soil organic carbon fractions with different turnover?. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 61-66.	1.9	20
26	Fate and stability of dissolved organic carbon in topsoils and subsoils under beech forests. <i>Biogeochemistry</i> , 2020, 148, 111-128.	3.5	15
27	Vertical partitioning of CO <sub>2</sub> production in a forest soil. <i>Biogeosciences</i> , 2020, 17, 6341-6356.	3.3	11
28	Partitioning of carbon and nitrogen during decomposition of <sup>13</sup> C <sup>15</sup> N-labeled beech and ash leaf litter. <i>Journal of Plant Nutrition and Soil Science</i> , 2014, 177, 178-188.	1.9	9
29	Effect of chemical and mechanical grassland conversion to cropland on soil mineral N dynamics and N <sub>2</sub> O emission. <i>Agriculture, Ecosystems and Environment</i> , 2020, 298, 106975.	5.3	9
30	Effects of residue location on soil organic matter turnover: results from an incubation experiment with <sup>15</sup> N-maize. <i>Journal of Plant Nutrition and Soil Science</i> , 2011, 174, 634-643.	1.9	8
31	Microbial carbon recycling: an underestimated process controlling soil carbon dynamics “ Part 2: A C <sub>3</sub> -C <sub>4</sub> vegetation change field labelling experiment. <i>Biogeosciences</i> , 2015, 12, 6291-6299.	3.3	8
32	Geogenic organic carbon in terrestrial sediments and its contribution to total soil carbon. <i>Soil</i> , 2021, 7, 347-362.	4.9	7
33	Modeling carbon dynamics in subsoils using simple models. <i>Journal of Plant Nutrition and Soil Science</i> , 2010, 173, 671-677.	1.9	5
34	Effects of chemical and physical grassland renovation on the temporal dynamics of organic carbon stocks and water-stable aggregate distribution in a sandy temperate grassland soil. <i>Soil Use and Management</i> , 2018, 34, 490-499.	4.9	2