

Birgit Wild

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

5,319
citations

101384

36
h-index

197535

49
g-index

66
all docs

66
docs citations

66
times ranked

8124
citing authors

#	ARTICLE	IF	CITATIONS
1	ACE2 links amino acid malnutrition to microbial ecology and intestinal inflammation. <i>Nature</i> , 2012, 487, 477-481.	13.7	1,035
2	Adjustment of microbial nitrogen use efficiency to carbon:nitrogen imbalances regulates soil nitrogen cycling. <i>Nature Communications</i> , 2014, 5, 3694.	5.8	594
3	Stoichiometric controls of nitrogen and phosphorus cycling in decomposing beech leaf litter. <i>Ecology</i> , 2012, 93, 770-782.	1.5	228
4	Input of easily available organic C and N stimulates microbial decomposition of soil organic matter in arctic permafrost soil. <i>Soil Biology and Biochemistry</i> , 2014, 75, 143-151.	4.2	213
5	Host-compound foraging by intestinal microbiota revealed by single-cell stable isotope probing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4720-4725.	3.3	210
6	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. <i>Tree Physiology</i> , 2018, 38, 1764-1778.	1.4	171
7	Non-structural carbohydrates in woody plants compared among laboratories. <i>Tree Physiology</i> , 2015, 35, tpv073.	1.4	163
8	Negligible contribution from roots to soil-borne phospholipid fatty acid fungal biomarkers 18:2 ω 6,9 and 18:1 ω 9. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1650-1652.	4.2	150
9	Decoupling of microbial carbon, nitrogen, and phosphorus cycling in response to extreme temperature events. <i>Science Advances</i> , 2017, 3, e1602781.	4.7	143
10	Distinct microbial communities associated with buried soils in the Siberian tundra. <i>ISME Journal</i> , 2014, 8, 841-853.	4.4	137
11	Rivers across the Siberian Arctic unearth the patterns of carbon release from thawing permafrost. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10280-10285.	3.3	118
12	Plant roots increase both decomposition and stable organic matter formation in boreal forest soil. <i>Nature Communications</i> , 2019, 10, 3982.	5.8	115
13	Microbial nitrogen dynamics in organic and mineral soil horizons along a latitudinal transect in western Siberia. <i>Global Biogeochemical Cycles</i> , 2015, 29, 567-582.	1.9	108
14	Temperature response of permafrost soil carbon is attenuated by mineral protection. <i>Global Change Biology</i> , 2018, 24, 3401-3415.	4.2	107
15	Microbial community composition shapes enzyme patterns in topsoil and subsoil horizons along a latitudinal transect in Western Siberia. <i>Soil Biology and Biochemistry</i> , 2015, 83, 106-115.	4.2	104
16	Soil organic matter quality exerts a stronger control than stoichiometry on microbial substrate use efficiency along a latitudinal transect. <i>Soil Biology and Biochemistry</i> , 2018, 121, 212-220.	4.2	104
17	A plant-microbe interaction framework explaining nutrient effects on primary production. <i>Nature Ecology and Evolution</i> , 2018, 2, 1588-1596.	3.4	100
18	Soil warming alters microbial substrate use in alpine soils. <i>Global Change Biology</i> , 2014, 20, 1327-1338.	4.2	97

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19	Effects of Soil Organic Matter Properties and Microbial Community Composition on Enzyme Activities in Cryoturbated Arctic Soils. PLoS ONE, 2014, 9, e94076.	1.1	90
20	Plant-derived compounds stimulate the decomposition of organic matter in arctic permafrost soils. Scientific Reports, 2016, 6, 25607.	1.6	87
21	Storage and transformation of organic matter fractions in cryoturbated permafrost soils across the Siberian Arctic. Biogeosciences, 2015, 12, 4525-4542.	1.3	85
22	Responses of belowground carbon allocation dynamics to extended shading in mountain grassland. New Phytologist, 2013, 198, 116-126.	3.5	84
23	Nitrogen dynamics in Turbic Cryosols from Siberia and Greenland. Soil Biology and Biochemistry, 2013, 67, 85-93.	4.2	78
24	Site- and horizon-specific patterns of microbial community structure and enzyme activities in permafrost-affected soils of Greenland. Frontiers in Microbiology, 2014, 5, 541.	1.5	73
25	Carbon loss from northern circumpolar permafrost soils amplified by rhizosphere priming. Nature Geoscience, 2020, 13, 560-565.	5.4	72
26	Linking microbial community structure and allocation of plant-derived carbon in an organic agricultural soil using ¹³ C ₂ O pulse-chase labelling combined with ¹³ C-PLFA profiling. Soil Biology and Biochemistry, 2013, 58, 207-215.	4.2	71
27	The effect of warming on the vulnerability of subducted organic carbon in arctic soils. Soil Biology and Biochemistry, 2015, 90, 19-29.	4.2	68
28	Properties and bioavailability of particulate and mineral-associated organic matter in arctic permafrost soils, Lower Kolyma region, Russia. European Journal of Soil Science, 2015, 66, 722-734.	1.8	59
29	Fate of carbohydrates and lignin in north-east Siberian permafrost soils. Soil Biology and Biochemistry, 2018, 116, 311-322.	4.2	59
30	Significance of dark CO ₂ fixation in arctic soils. Soil Biology and Biochemistry, 2018, 119, 11-21.	4.2	58
31	Allocation of carbon to fine root compounds and their residence times in a boreal forest depend on root size class and season. New Phytologist, 2012, 194, 972-981.	3.5	56
32	Decoupling of priming and microbial N mining during a short-term soil incubation. Soil Biology and Biochemistry, 2019, 129, 71-79.	4.2	52
33	Microbial carbon and nitrogen cycling responses to drought and temperature in differently managed mountain grasslands. Soil Biology and Biochemistry, 2019, 135, 144-153.	4.2	51
34	Amino acid production exceeds plant nitrogen demand in Siberian tundra. Environmental Research Letters, 2018, 13, 034002.	2.2	49
35	Contribution of carbon fixed by Rubisco and PEPC to phloem export in the Crassulacean acid metabolism plant Kalanchoe daigremontiana. Journal of Experimental Botany, 2010, 61, 1375-1383.	2.4	47
36	Remobilization of dormant carbon from Siberian-Arctic permafrost during three past warming events. Science Advances, 2020, 6, .	4.7	37

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37	Remobilization of Old Permafrost Carbon to Chukchi Sea Sediments During the End of the Last Deglaciation. <i>Global Biogeochemical Cycles</i> , 2019, 33, 2-14.	1.9	35
38	Influence of litter chemistry and stoichiometry on glucan depolymerization during decomposition of beech (<i>Fagus sylvatica</i> L.) litter. <i>Soil Biology and Biochemistry</i> , 2012, 50, 174-187.	4.2	31
39	A field method to store samples from temperate mountain grassland soils for analysis of phospholipid fatty acids. <i>Soil Biology and Biochemistry</i> , 2012, 51, 81-83.	4.2	31
40	Microbial utilization of mineral-associated nitrogen in soils. <i>Soil Biology and Biochemistry</i> , 2017, 104, 185-196.	4.2	30
41	Short-term carbon input increases microbial nitrogen demand, but not microbial nitrogen mining, in a set of boreal forest soils. <i>Biogeochemistry</i> , 2017, 136, 261-278.	1.7	22
42	CASCADE – The Circum-Arctic Sediment Carbon Database. <i>Earth System Science Data</i> , 2021, 13, 2561-2572.	3.7	22
43	Compound-specific differences in $\delta^{13}\text{C}$ of soluble carbohydrates in leaves and phloem of <i>Eucalyptus globulus</i> (Labill). <i>Plant, Cell and Environment</i> , 2011, 34, 1599-1608.	2.8	18
44	Carbon Isotope Composition of Carbohydrates and Polyols in Leaf and Phloem Sap of <i>Phaseolus vulgaris</i> L. Influences Predictions of Plant Water Use Efficiency. <i>Plant and Cell Physiology</i> , 2016, 57, 1756-1766.	1.5	14
45	Resistance of soil protein depolymerization rates to eight years of elevated CO ₂ , warming, and summer drought in a temperate heathland. <i>Biogeochemistry</i> , 2018, 140, 255-267.	1.7	13
46	Rate of Belowground Carbon Allocation Differs with Successional Habit of Two Afrotropical Trees. <i>PLoS ONE</i> , 2012, 7, e45540.	1.1	11
47	Stress-induced changes in carbon allocation among metabolite pools influence isotope-based predictions of water use efficiency in <i>Phaseolus vulgaris</i> . <i>Functional Plant Biology</i> , 2016, 43, 1149.	1.1	7
48	Spatial patterns and distributional controls of total and methylated mercury off the Lena River in the Laptev Sea sediments. <i>Marine Chemistry</i> , 2022, 238, 104052.	0.9	6
49	Lignin Preservation and Microbial Carbohydrate Metabolism in Permafrost Soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, e2020JG006181.	1.3	5