

# Gerd Gleixner

## List of Publications by Year in descending order

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Version: 2024-02-01

216  
papers

18,124  
citations

12303

69  
h-index

16127

124  
g-index

242  
all docs

242  
docs citations

242  
times ranked

16346  
citing authors

#	ARTICLE	IF	CITATIONS
1	Plant diversity increases soil microbial activity and soil carbon storage. <i>Nature Communications</i> , 2015, 6, 6707.	5.8	949
2	Effect of biochar amendment on soil carbon balance and soil microbial activity. <i>Soil Biology and Biochemistry</i> , 2009, 41, 1301-1310.	4.2	761
3	Variable effects of nitrogen additions on the stability and turnover of soil carbon. <i>Nature</i> , 2002, 419, 915-917.	13.7	643
4	How relevant is recalcitrance for the stabilization of organic matter in soils?. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 91-110.	1.1	586
5	The role of biodiversity for element cycling and trophic interactions: an experimental approach in a grassland community. <i>Basic and Applied Ecology</i> , 2004, 5, 107-121.	1.2	508
6	$\delta^{13}C$ values of individual n-alkanes from terrestrial plants along a climatic gradient – Implications for the sedimentary biomarker record. <i>Organic Geochemistry</i> , 2006, 37, 469-483.	0.9	455
7	Plant diversity effects on soil microorganisms support the singular hypothesis. <i>Ecology</i> , 2010, 91, 485-496.	1.5	409
8	Hydrogen isotope ratios of recent lacustrine sedimentary n-alkanes record modern climate variability. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4877-4889.	1.6	407
9	Land use driven change in soil pH affects microbial carbon cycling processes. <i>Nature Communications</i> , 2018, 9, 3591.	5.8	380
10	Soil organic matter in soil depth profiles: Distinct carbon preferences of microbial groups during carbon transformation. <i>Soil Biology and Biochemistry</i> , 2008, 40, 425-433.	4.2	379
11	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. <i>Global Change Biology</i> , 2011, 17, 1167-1185.	4.2	374
12	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. <i>Basic and Applied Ecology</i> , 2017, 23, 1-73.	1.2	307
13	Molecular dynamics of organic matter in a cultivated soil. <i>Organic Geochemistry</i> , 2002, 33, 357-366.	0.9	299
14	Soil Fungal:Bacterial Ratios Are Linked to Altered Carbon Cycling. <i>Frontiers in Microbiology</i> , 2016, 7, 1247.	1.5	292
15	Plant diversity positively affects short-term soil carbon storage in experimental grasslands. <i>Global Change Biology</i> , 2008, 14, 2937-2949.	4.2	260
16	Variable use of plant- and soil-derived carbon by microorganisms in agricultural soils. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3267-3278.	4.2	258
17	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. <i>Nature Geoscience</i> , 2019, 12, 755-761.	5.4	230
18	Direct and indirect effects of tree diversity drive soil microbial diversity in temperate deciduous forest. <i>Soil Biology and Biochemistry</i> , 2010, 42, 1558-1565.	4.2	205

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19	Biotic and Abiotic Properties Mediating Plant Diversity Effects on Soil Microbial Communities in an Experimental Grassland. <i>PLoS ONE</i> , 2014, 9, e96182.	1.1	188
20	Grazing triggers soil carbon loss by altering plant roots and their control on soil microbial community. <i>Journal of Ecology</i> , 2009, 97, 876-885.	1.9	185
21	Both priming and temperature sensitivity of soil organic matter decomposition depend on microbial biomass – An incubation study. <i>Soil Biology and Biochemistry</i> , 2013, 57, 739-748.	4.2	180
22	Soil organic matter dynamics: a biological perspective derived from the use of compound-specific isotopes studies. <i>Ecological Research</i> , 2013, 28, 683-695.	0.7	175
23	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. <i>Tree Physiology</i> , 2018, 38, 1764-1778.	1.4	171
24	Organic carbon sequestration in earthworm burrows. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1803-1812.	4.2	164
25	Soil carbon preservation through habitat constraints and biological limitations on decomposer activity. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 27-35.	1.1	156
26	Fire effects on soil organic matter content, composition, and nutrients in boreal interior Alaska. <i>Canadian Journal of Forest Research</i> , 2005, 35, 2178-2187.	0.8	155
27	A proteomic fingerprint of dissolved organic carbon and of soil particles. <i>Oecologia</i> , 2005, 142, 335-343.	0.9	153
28	Chars produced by slow pyrolysis and hydrothermal carbonization vary in carbon sequestration potential and greenhouse gases emissions. <i>Soil Biology and Biochemistry</i> , 2013, 62, 137-146.	4.2	150
29	A multi-proxy approach to reconstruct hydrological changes and Holocene climate development of Nam Co, Central Tibet. <i>Journal of Paleolimnology</i> , 2010, 43, 625-648.	0.8	138
30	Hydrogen isotope ratios of lacustrine sedimentary n-alkanes as proxies of tropical African hydrology: Insights from a calibration transect across Cameroon. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 79, 106-126.	1.6	137
31	Effect of lake evaporation on $\delta D$ values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan) Tj ETQq1 1 0.784314 rgBT/Overlo	0.9	133
32	Significant seasonal variation in the hydrogen isotopic composition of leaf-wax lipids for two deciduous tree ecosystems ( <i>Fagus sylvatica</i> and <i>Acer pseudoplatanus</i> ). <i>Organic Geochemistry</i> , 2009, 40, 732-742.	0.9	131
33	Molecular insight into soil carbon turnover. , 1999, 13, 1278-1283.		128
34	Mechanisms linking plant community properties to soil aggregate stability in an experimental grassland plant diversity gradient. <i>Plant and Soil</i> , 2013, 373, 285-299.	1.8	121
35	Reconstructing C 3 and C 4 vegetation cover using n -alkane carbon isotope ratios in recent lake sediments from Cameroon, Western Central Africa. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 482-500.	1.6	121
36	Seasonal changes in the soil microbial community in a grassland plant diversity gradient four years after establishment. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2588-2595.	4.2	120

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37	Increases in soil organic carbon sequestration can reduce the global warming potential of long-term liming to permanent grassland. <i>Global Change Biology</i> , 2011, 17, 1925-1934.	4.2	118
38	The occurrence of short chain n-alkanes with an even over odd predominance in higher plants and soils. <i>Organic Geochemistry</i> , 2010, 41, 88-95.	0.9	116
39	Stable isotope distribution in the major metabolites of source and sink organs of <i>Solanum tuberosum</i> L.: a powerful tool in the study of metabolic partitioning in intact plants. <i>Planta</i> , 1998, 207, 241-245.	1.6	115
40	Increased belowground carbon inputs and warming promote loss of soil organic carbon through complementary microbial responses. <i>Soil Biology and Biochemistry</i> , 2014, 76, 57-69.	4.2	115
41	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2020, 4, 1602-1611.	3.4	114
42	Carbon Isotope Effects on the Fructose-1,6-bisphosphate Aldolase Reaction, Origin for Non-statistical <sup>13</sup> C Distributions in Carbohydrates. <i>Journal of Biological Chemistry</i> , 1997, 272, 5382-5387.	1.6	111
43	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. <i>Limnology and Oceanography: Methods</i> , 2020, 18, 235-258.	1.0	109
44	Dynamic pathway allocation in early terpenoid biosynthesis of stress-induced lima bean leaves. <i>Phytochemistry</i> , 2006, 67, 1661-1672.	1.4	108
45	Leaf wax n-alkane $\delta$ D values of field-grown barley reflect leaf water $\delta$ D values at the time of leaf formation. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6741-6750.	1.6	107
46	Plant species diversity affects infiltration capacity in an experimental grassland through changes in soil properties. <i>Plant and Soil</i> , 2015, 397, 1-16.	1.8	105
47	Transformation of organic matter in agricultural soils: radiocarbon concentration versus soil depth. <i>Geoderma</i> , 2005, 128, 94-105.	2.3	100
48	Analytical pyrolysis of humic substances and dissolved organic matter in aquatic systems: structure and origin. <i>Water Research</i> , 1999, 33, 2489-2498.	5.3	99
49	Isotope analysis of pyrolysis products from Sphagnum peat and dissolved organic matter from bog water. <i>Organic Geochemistry</i> , 2000, 31, 645-654.	0.9	99
50	Molecular turnover time of soil organic matter in particle size fractions of an arable soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2551-2558.	0.7	99
51	Seasonal differences in tree species' influence on soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2013, 66, 239-248.	4.2	98
52	Effects of tree identity dominate over tree diversity on the soil microbial community structure. <i>Soil Biology and Biochemistry</i> , 2015, 81, 219-227.	4.2	97
53	Diversity Promotes Temporal Stability across Levels of Ecosystem Organization in Experimental Grasslands. <i>PLoS ONE</i> , 2010, 5, e13382.	1.1	95
54	Functional diversity of leaf nitrogen concentrations drives grassland carbon fluxes. <i>Ecology Letters</i> , 2014, 17, 435-444.	3.0	94

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55	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.	1.1	93
56	The results of biodiversityâ€ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020, 4, 1485-1494.	3.4	93
57	Relative contribution of foliar and fine root pine litter to the molecular composition of soil organic matter after in situ degradation. <i>Organic Geochemistry</i> , 2011, 42, 1099-1099.	0.9	91
58	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013, 173, 223-237.	0.9	91
59	Plant diversity effects on aboveground and belowground N pools in temperate grassland ecosystems: Development in the first 5 years after establishment. <i>Global Biogeochemical Cycles</i> , 2011, 25, n/a-n/a.	1.9	90
60	Land use in mountain grasslands alters drought response and recovery of carbon allocation and plantâ€microbial interactions. <i>Journal of Ecology</i> , 2018, 106, 1230-1243.	1.9	90
61	Eyes on the future â€ evidence for tradeâ€offs between growth, storage and defense in Norway spruce. <i>New Phytologist</i> , 2019, 222, 144-158.	3.5	88
62	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. <i>Ecosphere</i> , 2016, 7, e01619.	1.0	87
63	Compound-specific $\delta^{13}C$ and $\delta^2H$ analyses of plant and soil organic matter: A preliminary assessment of the effects of vegetation change on ecosystem hydrology. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3211-3221.	4.2	86
64	Degradation of organic matter from black shales and charcoal by the wood-rotting fungus <i>Schizophyllum commune</i> and release of DOC and heavy metals in the aqueous phase. <i>Science of the Total Environment</i> , 2006, 367, 383-393.	3.9	84
65	The Molecular Composition of Dissolved Organic Matter in Forest Soils as a Function of pH and Temperature. <i>PLoS ONE</i> , 2015, 10, e0119188.	1.1	83
66	Plant Compounds and Their Turnover and Stabilization as Soil Organic Matter. , 2001, , 201-215.		80
67	Drought-Induced Accumulation of Root Exudates Supports Post-drought Recovery of Microbes in Mountain Grassland. <i>Frontiers in Plant Science</i> , 2018, 9, 1593.	1.7	80
68	Comparing molecular composition of dissolved organic matter in soil and stream water: Influence of land use and chemical characteristics. <i>Science of the Total Environment</i> , 2016, 571, 142-152.	3.9	79
69	Climatic imprint of the mid-latitude Westerlies in the Central Tian Shan of Kyrgyzstan and teleconnections to North Atlantic climate variability during the last 6000 years. <i>Holocene</i> , 2014, 24, 970-984.	0.9	78
70	Chemistry of burning the forest floor during the FROSTFIRE experimental burn, interior Alaska, 1999. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	77
71	Preparation of starch and soluble sugars of plant material for the analysis of carbon isotope composition: a comparison of methods. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2476-2488.	0.7	76
72	Importance of root derived carbon for soil organic matter storage in a temperate old-growth beech forest â€ Evidence from C, N and $^{14}C$ content. <i>Forest Ecology and Management</i> , 2012, 263, 131-137.	1.4	73

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73	Empirical relationship between leaf wax n-alkane $\delta^{13}C$ and altitude in the Wuyi, Shennongjia and Tianshan Mountains, China: Implications for paleoaltimetry. <i>Earth and Planetary Science Letters</i> , 2011, 301, 285-296.	1.8	72
74	Functional diversity of microbial communities in pristine aquifers inferred by PLFA- and sequencing-based approaches. <i>Biogeosciences</i> , 2017, 14, 2697-2714.	1.3	72
75	Unexpected control of soil carbon turnover by soil carbon concentration. <i>Environmental Chemistry Letters</i> , 2013, 11, 407-413.	8.3	71
76	Mechanisms of short-term soil carbon storage in experimental grasslands. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2634-2642.	4.2	70
77	Plant diversity generates enhanced soil microbial access to recently photosynthesized carbon in the rhizosphere. <i>Soil Biology and Biochemistry</i> , 2016, 94, 122-132.	4.2	69
78	Plant species richness and functional groups have different effects on soil water content in a decade-long grassland experiment. <i>Journal of Ecology</i> , 2019, 107, 127-141.	1.9	69
79	Carbon isotope pattern in purine alkaloids a key to isotope discriminations in C1 compounds. <i>Phytochemistry</i> , 1996, 41, 1073-1077.	1.4	68
80	Classification of Terpenoids according to the Methylerythritolphosphate or the Mevalonate Pathway with Natural $^{12}C/^{13}C$ Isotope Ratios: Dynamic Allocation of Resources in Induced Plants. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 2091-2094.	7.2	68
81	Latitude and pH driven trends in the molecular composition of DOM across a north south transect along the Yenisei River. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 93-105.	1.6	67
82	Complexity of Soil Organic Matter: AMS $^{14}C$ Analysis of Soil Lipid Fractions and Individual Compounds. <i>Radiocarbon</i> , 2004, 46, 465-473.	0.8	65
83	Carbon and nitrogen isotope composition of bulk soils, particle-size fractions and organic material after treatment with hydrofluoric acid. <i>European Journal of Soil Science</i> , 2005, 56, 407-416.	1.8	64
84	Correlation between hydrogen isotope ratios of lipid biomarkers and sediment maturity. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 5517-5530.	1.6	64
85	Distribution of bacterial and archaeal ether lipids in soils and surface sediments of Tibetan lakes: Implications for GDGT-based proxies in saline high mountain lakes. <i>Organic Geochemistry</i> , 2014, 67, 19-30.	0.9	64
86	A synthesis of hydrogen isotope variability and its hydrological significance at the Qinghai-Tibetan Plateau. <i>Quaternary International</i> , 2013, 313-314, 3-16.	0.7	63
87	Foliar and soil $\delta^{15}N$ values reveal increased nitrogen partitioning among species in diverse grassland communities. <i>Plant, Cell and Environment</i> , 2011, 34, 895-908.	2.8	59
88	Exportation of dissolved (inorganic and organic) and particulate carbon from mangroves and its implication to the carbon budget in the Indian Sundarbans. <i>Science of the Total Environment</i> , 2018, 621, 535-547.	3.9	59
89	Microbial characteristics of soils on a latitudinal transect in Siberia. <i>Global Change Biology</i> , 2003, 9, 1106-1117.	4.2	58
90	Quaternary ecological responses and impacts of the Indian Ocean Summer Monsoon at Nam Co, Southern Tibetan Plateau. <i>Quaternary Science Reviews</i> , 2015, 112, 66-77.	1.4	58

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91	Plant diversity shapes microbial rhizosphere effects on P mobilisation from organic matter in soil. <i>Ecology Letters</i> , 2015, 18, 1356-1365.	3.0	57
92	Carbon sequestration potential of hydrothermal carbonization char (hydrochar) in two contrasting soils; results of a 1-year field study. <i>Biology and Fertility of Soils</i> , 2015, 51, 123-134.	2.3	57
93	Effect of aridity on $\delta^{13}C$ and $\delta^2D$ values of C <sub>3</sub> plant- and C <sub>4</sub> graminoid-derived leaf wax lipids from soils along an environmental gradient in Cameroon (Western Central Africa). <i>Organic Geochemistry</i> , 2015, 78, 99-109.	0.9	57
94	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.	2.1	56
95	Land Use Alters the Drought Responses of Productivity and CO <sub>2</sub> Fluxes in Mountain Grassland. <i>Ecosystems</i> , 2018, 21, 689-703.	1.6	55
96	Importance of microbial soil organic matter processing in dissolved organic carbon production. <i>FEMS Microbiology Ecology</i> , 2013, 86, 139-148.	1.3	54
97	Winter ecology of a subalpine grassland: Effects of snow removal on soil respiration, microbial structure and function. <i>Science of the Total Environment</i> , 2017, 590-591, 316-324.	3.9	54
98	Late Quaternary hydrological changes inferred from lake level fluctuations of Nam Co (Tibetan) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	0.7	53
99	Altered carbon turnover processes and microbiomes in soils under long-term extremely high CO <sub>2</sub> exposure. <i>Nature Microbiology</i> , 2016, 1, 15025.	5.9	52
100	Possible mechanisms underlying abundance and diversity responses of nematode communities to plant diversity. <i>Ecosphere</i> , 2017, 8, e01719.	1.0	52
101	ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. <i>Geoscientific Model Development</i> , 2018, 11, 937-957.	1.3	52
102	Biocatalysis and electrocatalysis at carbon paste electrodes doped by diaphorase-methylene green and diaphorase-meldola blue. <i>Electroanalysis</i> , 1993, 5, 201-207.	1.5	51
103	Distribution, sources and biogeochemistry of organic matter in a mangrove dominated estuarine system (Indian Sundarbans) during the pre-monsoon. <i>Estuarine, Coastal and Shelf Science</i> , 2015, 167, 404-413.	0.9	51
104	Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24885-24892.	3.3	50
105	Input related microbial carbon dynamic of soil organic matter in particle size fractions. <i>Soil Biology and Biochemistry</i> , 2012, 47, 209-219.	4.2	47
106	Rhizosphere bacterial carbon turnover is higher in nucleic acids than membrane lipids: implications for understanding soil carbon cycling. <i>Frontiers in Microbiology</i> , 2015, 6, 268.	1.5	47
107	Rhizospheric influence on soil respiration and decomposition in a temperate Norway spruce stand. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2103-2110.	4.2	46
108	Ecosystem-specific Composition of Dissolved Organic Matter. <i>Vadose Zone Journal</i> , 2014, 13, 1-10.	1.3	46



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109	Identification of novel 7-methyl and cyclopentanyl branched glycerol dialkyl glycerol tetraethers in lake sediments. <i>Organic Geochemistry</i> , 2016, 102, 52-58.	0.9	45
110	Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. <i>Nature Ecology and Evolution</i> , 2020, 4, 393-405.	3.4	45
111	Storage of carbon reserves in spruce trees is prioritized over growth in the face of carbon limitation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	45
112	Age heterogeneity of soil organic matter. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 223-224, 521-527.	0.6	44
113	Variable effects of labile carbon on the carbon use of different microbial groups in black slate degradation. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2557-2570.	1.6	44
114	<i>Pinus sylvestris</i> switches respiration substrates under shading but not during drought. <i>New Phytologist</i> , 2015, 207, 542-550.	3.5	44
115	Palaeoclimate reconstruction from biomarker geochemistry and stable isotopes of n-alkanes from Carboniferous and Early Permian humic coals and limnic sediments in western and eastern Europe. <i>Organic Geochemistry</i> , 2012, 43, 125-149.	0.9	43
116	The sources and distribution of carbon (DOC, POC, DIC) in a mangrove dominated estuary (French) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.7	43
117	Source- and substrate-specific export of dissolved organic matter from permafrost-dominated forested watershed in central Siberia. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	42
118	Effect of precipitation regime on $\delta D$ values of soil n-alkanes from elevation gradients – Implications for the study of paleo-elevation. <i>Organic Geochemistry</i> , 2011, 42, 838-845.	0.9	41
119	Genotypic variability enhances the reproducibility of an ecological study. <i>Nature Ecology and Evolution</i> , 2018, 2, 279-287.	3.4	41
120	$\delta^{13}C$ values of pyrolysis products from cellulose and lignin represent the isotope content of their precursors. <i>Journal of Analytical and Applied Pyrolysis</i> , 2006, 75, 19-26.	2.6	40
121	Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. <i>Nature Communications</i> , 2021, 12, 4431.	5.8	40
122	Growth-Dependent Stable Carbon Isotope Fractionation by Basidiomycete Fungi: $\delta^{13}C$ Pattern and Physiological Process. <i>Applied and Environmental Microbiology</i> , 2002, 68, 4956-4964.	1.4	39
123	Soil microbial carbon turnover decreases with increasing molecular size. <i>Soil Biology and Biochemistry</i> , 2013, 62, 115-118.	4.2	39
124	An optimal defense strategy for phenolic glycoside production in <i>Populus trichocarpa</i> – isotope labeling demonstrates secondary metabolite production in growing leaves. <i>New Phytologist</i> , 2014, 203, 607-619.	3.5	39
125	Tracking carbon flow in a 2-week-old and 6-week-old stream biofilm food web. <i>Limnology and Oceanography</i> , 2008, 53, 642-650.	1.6	38
126	Tracking the autochthonous carbon transfer in stream biofilm food webs. <i>FEMS Microbiology Ecology</i> , 2012, 79, 118-131.	1.3	36



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127	Century-long record of black carbon in an ice core from the Eastern Pamirs: Estimated contributions from biomass burning. <i>Atmospheric Environment</i> , 2015, 115, 79-88.	1.9	36
128	Linking molecular size, composition and carbon turnover of extractable soil microbial compounds. <i>Soil Biology and Biochemistry</i> , 2016, 100, 66-73.	4.2	33
129	Hydrogen isotope ratios of terrestrial leaf wax n-alkanes from the Tibetan Plateau: Controls on apparent enrichment factors, effect of vapor sources and implication for altimetry. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 211, 10-27.	1.6	32
130	Molecular Signals of Heterogeneous Terrestrial Environments Identified in Dissolved Organic Matter: A Comparative Analysis of Orbitrap and Ion Cyclotron Resonance Mass Spectrometers. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	32
131	Improved isotope ratio measurement performance in liquid chromatography/isotope ratio mass spectrometry by removing excess oxygen. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 4135-4141.	0.7	31
132	Change of methane production pathway with sediment depth in a lake on the Tibetan plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 474, 279-286.	1.0	31
133	Drought and recovery effects on belowground respiration dynamics and the partitioning of recent carbon in managed and abandoned grassland. <i>Global Change Biology</i> , 2020, 26, 4366-4378.	4.2	31
134	Simultaneous determination of the quantity and isotopic signature of dissolved organic matter from soil water using high-performance liquid chromatography/isotope ratio mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 173-180.	0.7	30
135	Climate variability in the past $\sim 19,000$ yr in NE Tibetan Plateau inferred from biomarker and stable isotope records of Lake Donggi Cona. <i>Quaternary Science Reviews</i> , 2017, 157, 129-140.	1.4	30
136	How plant diversity impacts the coupled water, nutrient and carbon cycles. <i>Advances in Ecological Research</i> , 2019, 61, 185-219.	1.4	29
137	Fueling Diversity in the Subsurface: Composition and Age of Dissolved Organic Matter in the Critical Zone. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	29
138	Oxygen isotope ratios of sedimentary biogenic silica reflect the European transcontinental climate gradient. <i>Journal of Quaternary Science</i> , 2008, 23, 341-350.	1.1	27
139	Plant wax $\delta D$ values record changing Eastern Mediterranean atmospheric circulation patterns during the 8.2 kyr B.P. climatic event. <i>Quaternary Science Reviews</i> , 2016, 133, 96-107.	1.4	27
140	Plant effects on soil N mineralization are mediated by the composition of multiple soil organic fractions. <i>Ecological Research</i> , 2011, 26, 201-208.	0.7	26
141	Levoglucosan concentrations in ice-core samples from the Tibetan Plateau determined by reverse-phase high-performance liquid chromatography-mass spectrometry. <i>Journal of Glaciology</i> , 2013, 59, 599-612.	1.1	26
142	Do n-alkane biomarkers in soils/sediments reflect the $\delta^2H$ isotopic composition of precipitation? A case study from Mt. Kilimanjaro and implications for paleoaltimetry and paleoclimate research. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 508-524.	0.5	26
143	Climate variability and its magnetic response recorded in a lacustrine sequence in Heqing basin at the SE Tibetan Plateau since 900 ka. <i>Geophysical Journal International</i> , 2015, 201, 444-458.	1.0	25
144	Experimental determination of natural carbonate rock dissolution rates with a focus on temperature dependency. <i>Geomorphology</i> , 2016, 261, 30-40.	1.1	25

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145	Reduced early Holocene moisture availability inferred from $\delta D$ values of sedimentary n-alkanes in Zigetang Co, Central Tibetan Plateau. <i>Holocene</i> , 2016, 26, 556-566.	0.9	25
146	Late quaternary hydrological changes at Tangra Yumco, Tibetan Plateau: a compound-specific isotope-based quantification of lake level changes. <i>Journal of Paleolimnology</i> , 2016, 55, 369-382.	0.8	25
147	Soil carbon inventories and carbon-13 on a latitude transect in Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 631-641.	0.8	24
148	Bisnorgammacerane tracers predatory pressure and the persistent rise of algal ecosystems after Snowball Earth. <i>Nature Communications</i> , 2019, 10, 476.	5.8	24
149	<sup>14</sup> C-Free Carbon Is a Major Contributor to Cellular Biomass in Geochemically Distinct Groundwater of Shallow Sedimentary Bedrock Aquifers. <i>Water Resources Research</i> , 2019, 55, 2104-2121.	1.7	24
150	Carbon isotope fractionation including photosynthetic and post-photosynthetic processes in C3 plants: Low [CO <sub>2</sub> ] matters. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 245, 1-15.	1.6	24
151	An isotopic method for testing the influence of leaf litter quality on carbon fluxes during decomposition. <i>Oecologia</i> , 2007, 154, 155-166.	0.9	23
152	Methanogenic pathways, <sup>13</sup> C isotope fractionation, and archaeal community composition in lake sediments and wetland soils on the Tibetan Plateau. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 650-664.	1.3	23
153	Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term biodiversity-ecosystem functioning relationships. <i>Research Ideas and Outcomes</i> , 0, 5, .	1.0	23
154	Isotopic evidences for microbiologically mediated and direct C input to soil compounds from three different leaf litters during their decomposition. <i>Environmental Chemistry Letters</i> , 2009, 7, 85-95.	8.3	22
155	Response of $\delta D$ values of sedimentary n-alkanes to variations in source water isotope signals and climate proxies at lake Nam Co, Tibetan Plateau. <i>Quaternary International</i> , 2011, 236, 82-90.	0.7	22
156	Biomolecular Evidence of Early Human Occupation of a High-Altitude Site in Western Central Asia During the Holocene. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	22
157	A new experimental approach to test why biodiversity effects strengthen as ecosystems age. <i>Advances in Ecological Research</i> , 2019, , 221-264.	1.4	21
158	Reconstruction of palaeohydrological conditions in a lagoon during the 2nd Zechstein cycle through simultaneous use of $\delta D$ values of individual n-alkanes and $\delta^{18}O$ and $\delta^{13}C$ values of carbonates. <i>International Journal of Earth Sciences</i> , 2004, 93, 554.	0.9	20
159	Organic matter quality structures benthic fatty acid patterns and the abundance of fungi and bacteria in temperate lakes. <i>Science of the Total Environment</i> , 2018, 610-611, 469-481.	3.9	20
160	Old-Growth Forests: Function, Fate and Value – an Overview. <i>Ecological Studies</i> , 2009, , 3-10.	0.4	19
161	Carbon quality affects the nitrogen partitioning between plants and soil microorganisms. <i>Soil Biology and Biochemistry</i> , 2015, 81, 266-274.	4.2	19
162	Characteristics and origin of intact polar lipids in soil organic matter. <i>Soil Biology and Biochemistry</i> , 2020, 151, 108045.	4.2	19

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163	Online Stable Isotope Analysis of Dissolved Organic Carbon Size Classes Using Size Exclusion Chromatography Coupled to an Isotope Ratio Mass Spectrometer. <i>Environmental Science &amp; Technology</i> , 2012, 46, 10123-10129.	4.6	18
164	Soil microbial communities and their carbon assimilation are affected by soil properties and season but not by plants differing in their photosynthetic pathways (C3 vs. C4). <i>Biogeochemistry</i> , 2019, 142, 175-187.	1.7	18
165	Production of constitutive and induced secondary metabolites is coordinated with growth and storage in Norway spruce saplings. <i>Tree Physiology</i> , 2020, 40, 928-942.	1.4	18
166	FungalTraits vs. FUNGuild: Comparison of Ecological Functional Assignments of Leaf- and Needle-Associated Fungi Across 12 Temperate Tree Species. <i>Microbial Ecology</i> , 2023, 85, 411-428.	1.4	18
167	Do Stable Isotopes Reflect the Food Web Development in Regenerating Ecosystems?. <i>Isotopes in Environmental and Health Studies</i> , 2000, 36, 285-301.	0.5	17
168	The stable isotopic signature of biologically produced molecular hydrogen (H <sub>2</sub> ). <i>Biogeosciences</i> , 2012, 9, 4115-4123.	1.3	17
169	Plant diversity enhances production and downward transport of biodegradable dissolved organic matter. <i>Journal of Ecology</i> , 2021, 109, 1284-1297.	1.9	17
170	Soil Carbon Accumulation in Old-Growth Forests. <i>Ecological Studies</i> , 2009, , 231-266.	0.4	17
171	Stable Isotope Composition of Soil Organic Matter. , 2005, , 29-46.		16
172	Influence of Litter Diversity on Dissolved Organic Matter Release and Soil Carbon Formation in a Mixed Beech Forest. <i>PLoS ONE</i> , 2014, 9, e114040.	1.1	15
173	Connecting experimental biodiversity research to real-world grasslands. <i>Perspectives in Plant Ecology, Evolution and Systematics</i> , 2018, 33, 78-88.	1.1	15
174	Plants with arbuscular mycorrhizal fungi efficiently acquire Nitrogen from substrate additions by shaping the decomposer community composition and their net plant carbon demand. <i>Plant and Soil</i> , 2022, 475, 473-490.	1.8	15
175	Carbon Allocation in <i>Rhodococcus jostii</i> RHA1 in Response to Disruption and Overexpression of nlpR Regulatory Gene, Based on <sup>13</sup> C-labeling Analysis. <i>Frontiers in Microbiology</i> , 2017, 8, 1992.	1.5	14
176	In situ production of core and intact bacterial and archaeal tetraether lipids in groundwater. <i>Organic Geochemistry</i> , 2018, 126, 1-12.	0.9	14
177	Overstory-specific effects of litter fall on the microbial carbon turnover in a mature deciduous forest. <i>Forest Ecology and Management</i> , 2009, 258, 109-114.	1.4	13
178	Variable effects of plant colonization on black slate uptake into microbial PLFAs. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 391-403.	1.6	13
179	Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. <i>Oecologia</i> , 2017, 185, 499-511.	0.9	13
180	Seasonal Patterns of Dominant Microbes Involved in Central Nutrient Cycles in the Subsurface. <i>Microorganisms</i> , 2020, 8, 1694.	1.6	13

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181	Congener-specific concentrations and carbon stable isotope ratios ( $\delta^{13}\text{C}$ ) of two technical toxaphene products (Toxaphene <sup>®</sup> and Melipax <sup>®</sup> ). <i>Chemosphere</i> , 2005, 58, 235-241.	4.2	12
182	Trace element variability in single ostracod valves as a proxy for hydrochemical change in Nam Co, central Tibet, during the Holocene. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 399, 225-235.	1.0	12
183	Mangrove-Derived Organic and Inorganic Carbon Exchanges Between the Sinnamary Estuarine System (French Guiana, South America) and Atlantic Ocean. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2020JG005739.	1.3	12
184	Microbial community functioning during plant litter decomposition. <i>Scientific Reports</i> , 2022, 12, 7451.	1.6	12
185	Compound-specific stable carbon isotope ratios ( $\delta^{13}\text{C}$ values) of the halogenated natural product 2,3,4,5,6,7,8-heptachloro-1-methyl-1,2-bipyrrole (Q1). <i>Rapid Communications in Mass Spectrometry</i> , 2006, 20, 3018-3022.	1.0	10
186	Nematode grazing increases the allocation of plant-derived carbon to soil bacteria and saprophytic fungi, and activates bacterial species of the rhizosphere. <i>Pedobiologia</i> , 2022, 90, 150787.	0.5	10
187	Biogeochemical evidence for freshwater periods during the Last Glacial Maximum recorded in lake sediments from Nam Co, south-central Tibetan Plateau. <i>Journal of Paleolimnology</i> , 2016, 55, 67-82.	0.8	9
188	Lignin Dimers as Potential Markers for $^{14}\text{C}$ -young Terrestrial Dissolved Organic Matter in the Critical Zone. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	9
189	Environmental Control on Microbial Turnover of Leaf Carbon in Streams – Ecological Function of Phototrophic-Heterotrophic Interactions. <i>Frontiers in Microbiology</i> , 2018, 9, 1044.	1.5	9
190	Rapid northward shift of the Indian Monsoon on the Tibetan Plateau at the end of the Little Ice Age. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 9262-9279.	1.2	8
191	Functional composition has stronger impact than species richness on carbon gain and allocation in experimental grasslands. <i>PLoS ONE</i> , 2019, 14, e0204715.	1.1	8
192	Reconstruction of the Late Holocene climate and environmental history from North Bolgoda Lake, Sri Lanka, using lipid biomarkers and pollen records. <i>Journal of Quaternary Science</i> , 2020, 35, 514-525.	1.1	8
193	Above and below ground carbohydrate allocation differs between ash ( <i>Fraxinus excelsior</i> L.) and beech ( <i>Fagus sylvatica</i> L.). <i>PLoS ONE</i> , 2017, 12, e0184247.	1.1	8
194	Experiments directed to the compound-specific determination of the stable carbon isotope ratios of the Toxaphene congener B8-1413 in two technical mixtures and Antarctic Weddell seal. <i>Journal of Chromatography A</i> , 2006, 1110, 165-170.	1.8	7
195	Dinosterol $\delta^2\text{H}$ values in stratified tropical lakes (Cameroon) are affected by eutrophication. <i>Organic Geochemistry</i> , 2015, 88, 35-49.	0.9	7
196	The unexpectedly short Holocene Humid Period in Northern Arabia. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	2.6	7
197	Compound-Specific Hydrogen Isotope Ratios of Biomarkers: Tracing Climatic Changes in the Past. <i>Journal of Nano Education (Print)</i> , 2007, 1, 249-265.	0.3	6
198	How to Deal With Multi-Proxy Data for Paleoenvironmental Reconstructions: Applications to a Holocene Lake Sediment Record From the Tian Shan, Central Asia. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	6

#	ARTICLE	IF	CITATIONS
199	Grasshopper herbivory immediately affects element cycling but not export rates in an N-limited grassland system. <i>Ecosphere</i> , 2021, 12, e03449.	1.0	6
200	Isolation of Individual Saturated Fatty Acid Methyl Esters Derived From Groundwater Phospholipids by Preparative High-Pressure Liquid Chromatography for Compound-Specific Radiocarbon Analyses. <i>Water Resources Research</i> , 2019, 55, 2521-2531.	1.7	5
201	Late-Holocene fluctuations of monsoonal Qiangyong Glacier, southern Tibetan Plateau. <i>Holocene</i> , 2021, 31, 1138-1147.	0.9	5
202	Mass Difference Matching Unfolds Hidden Molecular Structures of Dissolved Organic Matter. <i>Environmental Science &amp; Technology</i> , 2022, 56, 11027-11040.	4.6	5
203	Increases in soil organic carbon sequestration can reduce the global warming potential of long-term liming to permanent grassland. <i>Global Change Biology</i> , 2011, 17, 2762-2762.	4.2	4
204	Phosphorus Release from Mineral Soil by Acid Hydrolysis: Method Development, Kinetics, and Plant Community Composition Effects. <i>Soil Science Society of America Journal</i> , 2017, 81, 1389-1400.	1.2	4
205	Molecular links between white sand ecosystems and blackwater formation in the Rio Negro watershed. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 311, 274-291.	1.6	4
206	Special Issue dedicated to Professor Hanns-Ludwig Schmidt on the occasion of his 85th birthday. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 1-6.	0.5	3
207	Mid-Late Holocene Sub-Millennial Scale Inverse Trends of South Asian Summer and Winter Monsoons in Sri Lanka. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
208	Preparative isolation and characterization of heavy metal complexes from acid mine drainage and surface wastewater. <i>Clean - Soil, Air, Water</i> , 2006, 34, 568-578.	0.8	2
209	ICDP workshop on scientific drilling of Nam Co on the Tibetan Plateau: 1 Million years of paleoenvironmental history, geomicrobiology, tectonics and paleomagnetism derived from sediments of a high-altitude lake. <i>Scientific Drilling</i> , 0, 25, 63-70.	1.0	2
210	Seasonal variation of leaf wax n-alkane $\delta^{13}C$ values: Differences between <i>Quercus aquifolioides</i> (an) Tj ETQqO O O rgBT /Overlock 10 Tf 50 and Planetary Change, 2021, 207, 103674.	1.6	2
211	Drought Reduces Release of Plant Matter Into Dissolved Organic Matter Potentially Restraining Ecosystem Recovery. <i>Frontiers in Soil Science</i> , 0, 2, .	0.8	2
212	The Reservoir Age Effect Varies With the Mobilization of Pre-Aged Organic Carbon in a High-Altitude Central Asian Catchment. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	1
213	Biomarker and Pollen Approach to Reconstruct Late Holocene Climate and Environmental History in Western Sri Lanka. , 2019, , .		1
214	Insights Into the Known $^{13}C$ Depletion of Methane Contribution of the Kinetic Isotope Effects on the Serine Hydroxymethyltransferase Reaction. <i>Frontiers in Chemistry</i> , 2021, 9, 698067.	1.8	1
215	Sustainability of Impacts of Poplar Growth on Soil Organic Matter in Eutric Cambisols. <i>Soil Systems</i> , 2019, 3, 32.	1.0	0
216	Compound-Specific Hydrogen Isotope Ratios of Biomarkers. , 2007, , 249-IV.		0