Gerd Gleixner

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Plant diversity increases soil microbial activity and soil carbon storage. Nature Communications, 2015, 6, 6707.	12.8	949
2	Effect of biochar amendment on soil carbon balance and soil microbial activity. Soil Biology and Biochemistry, 2009, 41, 1301-1310.	8.8	761
3	Variable effects of nitrogen additions on the stability and turnover of soil carbon. Nature, 2002, 419, 915-917.	27.8	643
4	How relevant is recalcitrance for the stabilization of organic matter in soils?. Journal of Plant Nutrition and Soil Science, 2008, 171, 91-110.	1.9	586
5	The role of biodiversity for element cycling and trophic interactions: an experimental approach in a grassland community. Basic and Applied Ecology, 2004, 5, 107-121.	2.7	508
6	ÎƊ values of individual n-alkanes from terrestrial plants along a climatic gradient – Implications for the sedimentary biomarker record. Organic Geochemistry, 2006, 37, 469-483.	1.8	455
7	Plant diversity effects on soil microorganisms support the singular hypothesis. Ecology, 2010, 91, 485-496.	3.2	409
8	Hydrogen isotope ratios of recent lacustrine sedimentary n-alkanes record modern climate variability. Geochimica Et Cosmochimica Acta, 2004, 68, 4877-4889.	3.9	407
9	Land use driven change in soil pH affects microbial carbon cycling processes. Nature Communications, 2018, 9, 3591.	12.8	380
10	Soil organic matter in soil depth profiles: Distinct carbon preferences of microbial groups during carbon transformation. Soil Biology and Biochemistry, 2008, 40, 425-433.	8.8	379
11	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. Global Change Biology, 2011, 17, 1167-1185.	9.5	374
12	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. Basic and Applied Ecology, 2017, 23, 1-73.	2.7	307
13	Molecular dynamics of organic matter in a cultivated soil. Organic Geochemistry, 2002, 33, 357-366.	1.8	299
14	Soil Fungal:Bacterial Ratios Are Linked to Altered Carbon Cycling. Frontiers in Microbiology, 2016, 7, 1247.	3.5	292
15	Plant diversity positively affects shortâ€ŧerm soil carbon storage in experimental grasslands. Global Change Biology, 2008, 14, 2937-2949.	9.5	260
16	Variable use of plant- and soil-derived carbon by microorganisms in agricultural soils. Soil Biology and Biochemistry, 2006, 38, 3267-3278.	8.8	258
17	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. Nature Geoscience, 2019, 12, 755-761.	12.9	230
18	Direct and indirect effects of tree diversity drive soil microbial diversity in temperate deciduous forest. Soil Biology and Biochemistry, 2010, 42, 1558-1565.	8.8	205

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19	Biotic and Abiotic Properties Mediating Plant Diversity Effects on Soil Microbial Communities in an Experimental Grassland. PLoS ONE, 2014, 9, e96182.	2.5	188
20	Grazing triggers soil carbon loss by altering plant roots and their control on soil microbial community. Journal of Ecology, 2009, 97, 876-885.	4.0	185
21	Both priming and temperature sensitivity of soil organic matter decomposition depend on microbial biomass – An incubation study. Soil Biology and Biochemistry, 2013, 57, 739-748.	8.8	180
22	Soil organic matter dynamics: a biological perspective derived from the use of compoundâ€specific isotopes studies. Ecological Research, 2013, 28, 683-695.	1.5	175
23	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. Tree Physiology, 2018, 38, 1764-1778.	3.1	171
24	Organic carbon sequestration in earthworm burrows. Soil Biology and Biochemistry, 2008, 40, 1803-1812.	8.8	164
25	Soil arbon preservation through habitat constraints and biological limitations on decomposer activity. Journal of Plant Nutrition and Soil Science, 2008, 171, 27-35.	1.9	156
26	Fire effects on soil organic matter content, composition, and nutrients in boreal interior Alaska. Canadian Journal of Forest Research, 2005, 35, 2178-2187.	1.7	155
27	A proteomic fingerprint of dissolved organic carbon and of soil particles. Oecologia, 2005, 142, 335-343.	2.0	153
28	Chars produced by slow pyrolysis and hydrothermal carbonization vary in carbon sequestration potential and greenhouse gases emissions. Soil Biology and Biochemistry, 2013, 62, 137-146.	8.8	150
29	A multi-proxy approach to reconstruct hydrological changes and Holocene climate development of Nam Co, Central Tibet. Journal of Paleolimnology, 2010, 43, 625-648.	1.6	138
30	Hydrogen isotope ratios of lacustrine sedimentary n-alkanes as proxies of tropical African hydrology: Insights from a calibration transect across Cameroon. Geochimica Et Cosmochimica Acta, 2012, 79, 106-126.	3.9	137
31	Effect of lake evaporation on ÎƊ values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan) Tj ETQq1 1 0.	784314 rg 1.8	BT /Overloc
32	Significant seasonal variation in the hydrogen isotopic composition of leaf-wax lipids for two deciduous tree ecosystems (Fagus sylvativa and Acerpseudoplatanus). Organic Geochemistry, 2009, 40, 732-742.	1.8	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. Plant and Soil, 2013, 373, 285-299.	3.7	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. Geochimica Et Cosmochimica Acta, 2014, 142, 482-500.	3.9	121
36	Seasonal changes in the soil microbial community in a grassland plant diversity gradient four years after establishment. Soil Biology and Biochemistry, 2008, 40, 2588-2595.	8.8	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. Global Change Biology, 2011, 17, 1925-1934.	9.5	118
38	The occurrence of short chain n-alkanes with an even over odd predominance in higher plants and soils. Organic Geochemistry, 2010, 41, 88-95.	1.8	116
39	Stable isotope distribution in the major metabolites of source and sink organs of Solanum tuberosum L.: a powerful tool in the study of metabolic partitioning in intact plants. Planta, 1998, 207, 241-245.	3.2	115
40	Increased belowground carbon inputs and warming promote loss ofÂsoil organic carbon through complementary microbial responses. Soil Biology and Biochemistry, 2014, 76, 57-69.	8.8	115
41	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. Nature Ecology and Evolution, 2020, 4, 1602-1611.	7.8	114
42	Carbon Isotope Effects on the Fructose-1,6-bisphosphate Aldolase Reaction, Origin for Non-statistical 13C Distributions in Carbohydrates. Journal of Biological Chemistry, 1997, 272, 5382-5387.	3.4	111
43	An international laboratory comparison of dissolved organic matter composition by high resolution mass spectrometry: Are we getting the same answer?. Limnology and Oceanography: Methods, 2020, 18, 235-258.	2.0	109
44	Dynamic pathway allocation in early terpenoid biosynthesis of stress-induced lima bean leaves. Phytochemistry, 2006, 67, 1661-1672.	2.9	108
45	Leaf wax n-alkane ÎƊ values of field-grown barley reflect leaf water ÎƊ values at the time of leaf formation. Geochimica Et Cosmochimica Acta, 2010, 74, 6741-6750.	3.9	107
46	Plant species diversity affects infiltration capacity in an experimental grassland through changes in soil properties. Plant and Soil, 2015, 397, 1-16.	3.7	105
47	Transformation of organic matter in agricultural soils: radiocarbon concentration versus soil depth. Geoderma, 2005, 128, 94-105.	5.1	100
48	Analytical pyrolysis of humic substances and dissolved organic matter in aquatic systems: structure and origin. Water Research, 1999, 33, 2489-2498.	11.3	99
49	Isotope analysis of pyrolysis products from Sphagnum peat and dissolved organic matter from bog water. Organic Geochemistry, 2000, 31, 645-654.	1.8	99
50	Molecular turnover time of soil organic matter in particleâ€size fractions of an arable soil. Rapid Communications in Mass Spectrometry, 2009, 23, 2551-2558.	1.5	99
51	Seasonal differences in tree species' influence on soil microbial communities. Soil Biology and Biochemistry, 2013, 66, 239-248.	8.8	98
52	Effects of tree identity dominate over tree diversity on the soil microbial community structure. Soil Biology and Biochemistry, 2015, 81, 219-227.	8.8	97
53	Diversity Promotes Temporal Stability across Levels of Ecosystem Organization in Experimental Grasslands. PLoS ONE, 2010, 5, e13382.	2.5	95
54	Functional diversity of leaf nitrogen concentrations drives grassland carbon fluxes. Ecology Letters, 2014, 17, 435-444.	6.4	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. Journal of Plant Nutrition and Soil Science, 2008, 171, 36-51.	1.9	93
56	The results of biodiversity–ecosystem functioning experiments are realistic. Nature Ecology and Evolution, 2020, 4, 1485-1494.	7.8	93
57	Relative contribution of foliar and fine root pine litter to the molecular composition of soil organic matter after in situ degradation. Organic Geochemistry, 2011, 42, 1099-1099.	1.8	91
58	A comparison of the strength of biodiversity effects across multiple functions. Oecologia, 2013, 173, 223-237.	2.0	91
59	Plant diversity effects on aboveground and belowground N pools in temperate grassland ecosystems: Development in the first 5 years after establishment. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	4.9	90
60	Land use in mountain grasslands alters drought response and recovery of carbon allocation and plantâ€microbial interactions. Journal of Ecology, 2018, 106, 1230-1243.	4.0	90
61	Eyes on the future – evidence for tradeâ€offs between growth, storage and defense in Norway spruce. New Phytologist, 2019, 222, 144-158.	7.3	88
62	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. Ecosphere, 2016, 7, e01619.	2.2	87
63	Compound-specific δ13C and δ2H analyses of plant and soil organic matter: A preliminary assessment of the effects of vegetation change on ecosystem hydrology. Soil Biology and Biochemistry, 2006, 38, 3211-3221.	8.8	86
64	Degradation of organic matter from black shales and charcoal by the wood-rotting fungus Schizophyllum commune and release of DOC and heavy metals in the aqueous phase. Science of the Total Environment, 2006, 367, 383-393.	8.0	84
65	The Molecular Composition of Dissolved Organic Matter in Forest Soils as a Function of pH and Temperature. PLoS ONE, 2015, 10, e0119188.	2.5	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. Frontiers in Plant Science, 2018, 9, 1593.	3.6	80
68	Comparing molecular composition of dissolved organic matter in soil and stream water: Influence of land use and chemical characteristics. Science of the Total Environment, 2016, 571, 142-152.	8.0	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. Holocene, 2014, 24, 970-984.	1.7	78
70	Chemistry of burning the forest floor during the FROSTFIRE experimental burn, interior Alaska, 1999. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	77
71	Preparation of starch and soluble sugars of plant material for the analysis of carbon isotope composition: a comparison of methods. Rapid Communications in Mass Spectrometry, 2009, 23, 2476-2488.	1.5	76
72	Importance of root derived carbon for soil organic matter storage in a temperate old-growth beech forest – Evidence from C, N and 14C content. Forest Ecology and Management, 2012, 263, 131-137.	3.2	73

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73	Empirical relationship between leaf wax n-alkane ÎƊ and altitude in the Wuyi, Shennongjia and Tianshan Mountains, China: Implications for paleoaltimetry. Earth and Planetary Science Letters, 2011, 301, 285-296.	4.4	72
74	Functional diversity of microbial communities in pristine aquifers inferred by PLFA- and sequencing-based approaches. Biogeosciences, 2017, 14, 2697-2714.	3.3	72
75	Unexpected control of soil carbon turnover by soil carbon concentration. Environmental Chemistry Letters, 2013, 11, 407-413.	16.2	71
76	Mechanisms of short-term soil carbon storage in experimental grasslands. Soil Biology and Biochemistry, 2008, 40, 2634-2642.	8.8	70
77	Plant diversity generates enhanced soil microbial access to recently photosynthesized carbon in the rhizosphere. Soil Biology and Biochemistry, 2016, 94, 122-132.	8.8	69
78	Plant species richness and functional groups have different effects on soil water content in a decadeâ€long grassland experiment. Journal of Ecology, 2019, 107, 127-141.	4.0	69
79	Carbon isotope pattern in purine alkaloids a key to isotope discriminations in C1 compounds. Phytochemistry, 1996, 41, 1073-1077.	2.9	68
80	Classification of Terpenoids according to the Methylerythritolphosphate or the Mevalonate Pathway with Natural12C/13C Isotope Ratios: Dynamic Allocation of Resources in Induced Plants. Angewandte Chemie - International Edition, 2001, 40, 2091-2094.	13.8	68
81	Latitude and pH driven trends in the molecular composition of DOM across a north south transect along the Yenisei River. Geochimica Et Cosmochimica Acta, 2013, 123, 93-105.	3.9	67
82	Complexity of Soil Organic Matter: AMS 14C Analysis of Soil Lipid Fractions and Individual Compounds. Radiocarbon, 2004, 46, 465-473.	1.8	65
83	Carbon and nitrogen isotope composition of bulk soils, particle-size fractions and organic material after treatment with hydrofluoric acid. European Journal of Soil Science, 2005, 56, 407-416.	3.9	64
84	Correlation between hydrogen isotope ratios of lipid biomarkers and sediment maturity. Geochimica Et Cosmochimica Acta, 2005, 69, 5517-5530.	3.9	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. Organic Geochemistry, 2014, 67, 19-30.	1.8	64
86	A synthesis of hydrogen isotope variability and its hydrological significance at the Qinghai–Tibetan Plateau. Quaternary International, 2013, 313-314, 3-16.	1.5	63
87	Foliar and soil <i>δ</i> ¹⁵ N values reveal increased nitrogen partitioning among species in diverse grassland communities. Plant, Cell and Environment, 2011, 34, 895-908.	5.7	59
88	Exportation of dissolved (inorganic and organic) and particulate carbon from mangroves and its implication to the carbon budget in the Indian Sundarbans. Science of the Total Environment, 2018, 621, 535-547.	8.0	59
89	Microbial characteristics of soils on a latitudinal transect in Siberia. Global Change Biology, 2003, 9, 1106-1117.	9.5	58
90	Quaternary ecological responses and impacts of the Indian Ocean Summer Monsoon at Nam Co, Southern Tibetan Plateau. Quaternary Science Reviews, 2015, 112, 66-77.	3.0	58

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91	Plant diversity shapes microbeâ€rhizosphere effects on P mobilisation from organic matter in soil. Ecology Letters, 2015, 18, 1356-1365.	6.4	57
92	Carbon sequestration potential of hydrothermal carbonization char (hydrochar) in two contrasting soils; results of a 1-year field study. Biology and Fertility of Soils, 2015, 51, 123-134.	4.3	57
93	Effect of aridity on δ 13 C and ÎƊ values of C 3 plant- and C 4 graminoid-derived leaf wax lipids from soils along an environmental gradient in Cameroon (Western Central Africa). Organic Geochemistry, 2015, 78, 99-109.	1.8	57
94	The role of soil fungi and bacteria in plant litter decomposition and macroaggregate formation determined using phospholipid fatty acids. Applied Soil Ecology, 2015, 96, 261-264.	4.3	56
95	Land Use Alters the Drought Responses of Productivity and CO2 Fluxes in Mountain Grassland. Ecosystems, 2018, 21, 689-703.	3.4	55
96	Importance of microbial soil organic matter processing in dissolved organic carbon production. FEMS Microbiology Ecology, 2013, 86, 139-148.	2.7	54
97	Winter ecology of a subalpine grassland: Effects of snow removal on soil respiration, microbial structure and function. Science of the Total Environment, 2017, 590-591, 316-324.	8.0	54
98	Late Quaternary hydrological changes inferred from lake level fluctuations of Nam Co (Tibetan) Tj ETQq0 0 0 rgBT	/Oyerlock 1.5	10 Tf 50 4
99	Altered carbon turnover processes and microbiomes in soils under long-term extremely high CO2 exposure. Nature Microbiology, 2016, 1, 15025.	13.3	52
100	Possible mechanisms underlying abundance and diversity responses of nematode communities to plant diversity. Ecosphere, 2017, 8, e01719.	2.2	52
101	ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. Geoscientific Model Development, 2018, 11, 937-957.	3.6	52
102	Biocatalysis and electrocatalysis at carbon paste electrodes doped by diaphorase-methylene green and diaphorase-meldola blue. Electroanalysis, 1993, 5, 201-207.	2.9	51
103	Distribution, sources and biogeochemistry of organic matter in a mangrove dominated estuarine system (Indian Sundarbans) during the pre-monsoon. Estuarine, Coastal and Shelf Science, 2015, 167, 404-413.	2.1	51
104	Rhizosphere activity in an old-growth forest reacts rapidly to changes in soil moisture and shapes whole-tree carbon allocation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24885-24892.	7.1	50
105	Input related microbial carbon dynamic of soil organic matter in particle size fractions. Soil Biology and Biochemistry, 2012, 47, 209-219.	8.8	47
106	Rhizosphere bacterial carbon turnover is higher in nucleic acids than membrane lipids: implications for understanding soil carbon cycling. Frontiers in Microbiology, 2015, 6, 268.	3.5	47
107	Rhizospheric influence on soil respiration and decomposition in a temperate Norway spruce stand. Soil Biology and Biochemistry, 2007, 39, 2103-2110.	8.8	46
108	Ecosystem‧pecific Composition of Dissolved Organic Matter. Vadose Zone Journal, 2014, 13, 1-10.	2.2	46

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109	Identification of novel 7-methyl and cyclopentanyl branched glycerol dialkyl glycerol tetraethers in lake sediments. Organic Geochemistry, 2016, 102, 52-58.	1.8	45
110	Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. Nature Ecology and Evolution, 2020, 4, 393-405.	7.8	45
111	Storage of carbon reserves in spruce trees is prioritized over growth in the face of carbon limitation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	45
112	Age heterogeneity of soil organic matter. Nuclear Instruments & Methods in Physics Research B, 2004, 223-224, 521-527.	1.4	44
113	Variable effects of labile carbon on the carbon use of different microbial groups in black slate degradation. Geochimica Et Cosmochimica Acta, 2011, 75, 2557-2570.	3.9	44
114	<i>Pinus sylvestris</i> switches respiration substrates under shading but not during drought. New Phytologist, 2015, 207, 542-550.	7.3	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. Organic Geochemistry, 2012, 43, 125-149.	1.8	43
116	The sources and distribution of carbon (DOC, POC, DIC) in a mangrove dominated estuary (French) Tj ETQq0 0 0	rgBT /Ove	rlock 10 Tf 5
117	Source―and substrateâ€specific export of dissolved organic matter from permafrostâ€dominated forested watershed in central Siberia. Global Biogeochemical Cycles, 2007, 21, .	4.9	42
118	Effect of precipitation regime on ÎƊ values of soil n-alkanes from elevation gradients – Implications for the study of paleo-elevation. Organic Geochemistry, 2011, 42, 838-845.	1.8	41
119	Genotypic variability enhances the reproducibility of an ecological study. Nature Ecology and Evolution, 2018, 2, 279-287.	7.8	41
120	δ13C values of pyrolysis products from cellulose and lignin represent the isotope content of their precursors. Journal of Analytical and Applied Pyrolysis, 2006, 75, 19-26.	5.5	40
121	Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. Nature Communications, 2021, 12, 4431.	12.8	40
122	Growth-Dependent Stable Carbon Isotope Fractionation by Basidiomycete Fungi: \hat{i}' 13 C Pattern and Physiological Process. Applied and Environmental Microbiology, 2002, 68, 4956-4964.	3.1	39
123	Soil microbial carbon turnover decreases with increasing molecular size. Soil Biology and Biochemistry, 2013, 62, 115-118.	8.8	39
124	An optimal defense strategy for phenolic glycoside production in <i>Populus trichocarpa</i> – isotope labeling demonstrates secondary metabolite production in growing leaves. New Phytologist, 2014, 203, 607-619.	7.3	39
125	Tracking carbon flow in a 2-week-old and 6-week-old stream biofilm food web. Limnology and Oceanography, 2008, 53, 642-650.	3.1	38

¹²⁶Tracking the autochthonous carbon transfer in stream biofilm food webs. FEMS Microbiology
Ecology, 2012, 79, 118-131.2.736

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127	Century-long record of black carbon in an ice core from the Eastern Pamirs: Estimated contributions from biomass burning. Atmospheric Environment, 2015, 115, 79-88.	4.1	36
128	Linking molecular size, composition and carbon turnover of extractable soil microbial compounds. Soil Biology and Biochemistry, 2016, 100, 66-73.	8.8	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. Geochimica Et Cosmochimica Acta, 2017, 211, 10-27.	3.9	32
130	Molecular Signals of Heterogeneous Terrestrial Environments Identified in Dissolved Organic Matter: A Comparative Analysis of Orbitrap and Ion Cyclotron Resonance Mass Spectrometers. Frontiers in Earth Science, 2018, 6, .	1.8	32
131	Improved isotope ratio measurement performance in liquid chromatography/isotope ratio mass spectrometry by removing excess oxygen. Rapid Communications in Mass Spectrometry, 2007, 21, 4135-4141.	1.5	31
132	Change of methane production pathway with sediment depth in a lake on the Tibetan plateau. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 474, 279-286.	2.3	31
133	Drought and recovery effects on belowground respiration dynamics and the partitioning of recent carbon in managed and abandoned grassland. Global Change Biology, 2020, 26, 4366-4378.	9.5	31
134	Simultaneous determination of the quantity and isotopic signature of dissolved organic matter from soil water using highâ€performance liquid chromatography/isotope ratio mass spectrometry. Rapid Communications in Mass Spectrometry, 2012, 26, 173-180.	1.5	30
135	Climate variability in the past â^¼19,000Âyr in NE Tibetan Plateau inferred from biomarker and stable isotope records of Lake Donggi Cona. Quaternary Science Reviews, 2017, 157, 129-140.	3.0	30
136	How plant diversity impacts the coupled water, nutrient and carbon cycles. Advances in Ecological Research, 2019, 61, 185-219.	2.7	29
137	Fueling Diversity in the Subsurface: Composition and Age of Dissolved Organic Matter in the Critical Zone. Frontiers in Earth Science, 2019, 7, .	1.8	29
138	Oxygen isotope ratios of sedimentary biogenic silica reflect the European transcontinental climate gradient. Journal of Quaternary Science, 2008, 23, 341-350.	2.1	27
139	Plant wax ÎƊ values record changing Eastern Mediterranean atmospheric circulation patterns during the 8.2ÂkyrÂB.P. climatic event. Quaternary Science Reviews, 2016, 133, 96-107.	3.0	27
140	Plant effects on soil N mineralization are mediated by the composition of multiple soil organic fractions. Ecological Research, 2011, 26, 201-208.	1.5	26
141	Levoglucosan concentrations in ice-core samples from the Tibetan Plateau determined by reverse-phase high-performance liquid chromatography–mass spectrometry. Journal of Glaciology, 2013, 59, 599-612.	2.2	26
142	Do <i>n</i> -alkane biomarkers in soils/sediments reflect the <i>δ</i> ² H isotopic composition of precipitation? A case study from Mt. Kilimanjaro and implications for paleoaltimetry and paleoclimate research. Isotopes in Environmental and Health Studies, 2015, 51, 508-524.	1.0	26
143	Climate variability and its magnetic response recorded in a lacustrine sequence in Heqing basin at the SE Tibetan Plateau since 900 ka. Geophysical Journal International, 2015, 201, 444-458.	2.4	25
144	Experimental determination of natural carbonate rock dissolution rates with a focus on temperature dependency. Geomorphology, 2016, 261, 30-40.	2.6	25

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145	Reduced early Holocene moisture availability inferred from ÎƊ values of sedimentary <i>n</i> -alkanes in Zigetang Co, Central Tibetan Plateau. Holocene, 2016, 26, 556-566.	1.7	25
146	Late quaternary hydrological changes at Tangra Yumco, Tibetan Plateau: a compound-specific isotope-based quantification of lake level changes. Journal of Paleolimnology, 2016, 55, 369-382.	1.6	25
147	Soil carbon inventories and carbon-13 on a latitude transect in Siberia. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 631-641.	1.6	24
148	BisnorgammaceraneÂtraces predatoryÂpressureÂand the persistent rise of algal ecosystems after Snowball Earth. Nature Communications, 2019, 10, 476.	12.8	24
149	¹⁴ Câ€Free Carbon Is a Major Contributor to Cellular Biomass in Geochemically Distinct Groundwater of Shallow Sedimentary Bedrock Aquifers. Water Resources Research, 2019, 55, 2104-2121.	4.2	24
150	Carbon isotope fractionation including photosynthetic and post-photosynthetic processes in C3 plants: Low [CO2] matters. Geochimica Et Cosmochimica Acta, 2019, 245, 1-15.	3.9	24
151	An isotopic method for testing the influence of leaf litter quality on carbon fluxes during decomposition. Oecologia, 2007, 154, 155-166.	2.0	23
152	Methanogenic pathways, ¹³ C isotope fractionation, and archaeal community composition in lake sediments and wetland soils on the Tibetan Plateau. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 650-664.	3.0	23
153	Biotic interactions, community assembly, and eco-evolutionary dynamics as drivers of long-term biodiversity–ecosystem functioning relationships. Research Ideas and Outcomes, 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. Environmental Chemistry Letters, 2009, 7, 85-95.	16.2	22
155	Response of ÎƊ values of sedimentary n-alkanes to variations in source water isotope signals and climate proxies at lake Nam Co, Tibetan Plateau. Quaternary International, 2011, 236, 82-90.	1.5	22
156	Biomolecular Evidence of Early Human Occupation of a High-Altitude Site in Western Central Asia During the Holocene. Frontiers in Earth Science, 2020, 8, .	1.8	22
157	A new experimental approach to test why biodiversity effects strengthen as ecosystems age. Advances in Ecological Research, 2019, , 221-264.	2.7	21
158	Reconstruction of palaeohydrological conditions in a lagoon during the 2nd Zechstein cycle through simultaneous use of ?D values of individual n-alkanes and ?18O and ?13C values of carbonates. International Journal of Earth Sciences, 2004, 93, 554.	1.8	20
159	Organic matter quality structures benthic fatty acid patterns and the abundance of fungi and bacteria in temperate lakes. Science of the Total Environment, 2018, 610-611, 469-481.	8.0	20
160	Old-Growth Forests: Function, Fate and Value – an Overview. Ecological Studies, 2009, , 3-10.	1.2	19
161	Carbon quality affects the nitrogen partitioning between plants and soil microorganisms. Soil Biology and Biochemistry, 2015, 81, 266-274.	8.8	19
162	Characteristics and origin of intact polar lipids in soil organic matter. Soil Biology and Biochemistry, 2020, 151, 108045.	8.8	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. Environmental Science & Technology, 2012, 46, 10123-10129.	10.0	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). Biogeochemistry, 2019, 142, 175-187.	3.5	18
165	Production of constitutive and induced secondary metabolites is coordinated with growth and storage in Norway spruce saplings. Tree Physiology, 2020, 40, 928-942.	3.1	18
166	FungalTraits vs. FUNGuild: Comparison of Ecological Functional Assignments of Leaf- and Needle-Associated Fungi Across 12 Temperate Tree Species. Microbial Ecology, 2023, 85, 411-428.	2.8	18
167	Do Stable Isotopes Reflect the Food Web Development in Regenerating Ecosystems?. Isotopes in Environmental and Health Studies, 2000, 36, 285-301.	1.0	17
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