

Gerd Gleixner

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218
papers

13,608
citations

63
h-index

111
g-index

242
ext. papers

16,034
ext. citations

5.7
avg, IF

6.47
L-index

#	Paper	IF	Citations
218	Effect of biochar amendment on soil carbon balance and soil microbial activity. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1301-1310	7.5	624
217	Plant diversity increases soil microbial activity and soil carbon storage. <i>Nature Communications</i> , 2015 , 6, 6707	17.4	575
216	Variable effects of nitrogen additions on the stability and turnover of soil carbon. <i>Nature</i> , 2002 , 419, 915-7	50.4	561
215	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	2.3	498
214	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	3.2	452
213	δ 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	3.1	400
212	Hydrogen isotope ratios of recent lacustrine sedimentary n-alkanes record modern climate variability. <i>Geochimica Et Cosmochimica Acta</i> , 2004 , 68, 4877-4889	5.5	371
211	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. <i>Global Change Biology</i> , 2011 , 17, 1167-1185	11.4	317
210	Plant diversity effects on soil microorganisms support the singular hypothesis. <i>Ecology</i> , 2010 , 91, 485-964.6		314
209	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	7.5	302
208	Molecular dynamics of organic matter in a cultivated soil. <i>Organic Geochemistry</i> , 2002 , 33, 357-366	3.1	271
207	Variable use of plant- and soil-derived carbon by microorganisms in agricultural soils. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 3267-3278	7.5	219
206	Plant diversity positively affects short-term soil carbon storage in experimental grasslands. <i>Global Change Biology</i> , 2008 , 14, 2937-2949	11.4	207
205	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	3.2	184
204	Soil Fungal:Bacterial Ratios Are Linked to Altered Carbon Cycling. <i>Frontiers in Microbiology</i> , 2016 , 7, 12475.7		159
203	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	7.5	152
202	Land use driven change in soil pH affects microbial carbon cycling processes. <i>Nature Communications</i> , 2018 , 9, 3591	17.4	152

201	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	6	144
200	Soil organic matter dynamics: a biological perspective derived from the use of compound-specific isotopes studies. <i>Ecological Research</i> , 2013 , 28, 683-695	1.9	137
199	Organic carbon sequestration in earthworm burrows. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 1803-1812	7.5	137
198	Biotic and abiotic properties mediating plant diversity effects on soil microbial communities in an experimental grassland. <i>PLoS ONE</i> , 2014 , 9, e96182	3.7	136
197	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	2.3	135
196	A proteomic fingerprint of dissolved organic carbon and of soil particles. <i>Oecologia</i> , 2005 , 142, 335-43	2.9	133
195	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	1.9	130
194	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	7.5	126
193	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	2.1	125
192	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	7.5	122
191	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	5.5	121
190	Effect of lake evaporation on δ values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan Plateau) and Holzmaar (Germany). <i>Organic Geochemistry</i> , 2008 , 39, 711-729	3.1	118
189	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	3.1	116
188	Molecular insight into soil carbon turnover. <i>Rapid Communications in Mass Spectrometry</i> , 1999 , 13, 1278-1283	11.3	113
187	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	4.7	107
186	Carbon isotope effects on the fructose-1,6-bisphosphate aldolase reaction, origin for non-statistical ^{13}C distributions in carbohydrates. <i>Journal of Biological Chemistry</i> , 1997 , 272, 5382-7	5.4	104
185	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	11.4	99
184	Leaf wax n-alkane δ values of field-grown barley reflect leaf water δ values at the time of leaf formation. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 6741-6750	5.5	99

183	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. <i>Nature Geoscience</i> , 2019 , 12, 755-761	18.3	96
182	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	7.5	95
181	Transformation of organic matter in agricultural soils: radiocarbon concentration versus soil depth. <i>Geoderma</i> , 2005 , 128, 94-105	6.7	95
180	Reconstructing C3 and C4 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	5.5	93
179	Dynamic pathway allocation in early terpenoid biosynthesis of stress-induced lima bean leaves. <i>Phytochemistry</i> , 2006 , 67, 1661-72	4	90
178	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	7.5	89
177	Molecular turnover time of soil organic matter in particle-size fractions of an arable soil. <i>Rapid Communications in Mass Spectrometry</i> , 2009 , 23, 2551-8	2.2	87
176	Isotope analysis of pyrolysis products from Sphagnum peat and dissolved organic matter from bog water. <i>Organic Geochemistry</i> , 2000 , 31, 645-654	3.1	87
175	Analytical pyrolysis of humic substances and dissolved organic matter in aquatic systems: structure and origin. <i>Water Research</i> , 1999 , 33, 2489-2498	12.5	86
174	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	2.3	84
173	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	4.2	83
172	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	3.1	83
171	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	3.1	83
170	A comparison of the strength of biodiversity effects across multiple functions. <i>Oecologia</i> , 2013 , 173, 223-37	2.9	82
169	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. <i>Tree Physiology</i> , 2018 , 38, 1764-1778	4.2	82
168	Diversity promotes temporal stability across levels of ecosystem organization in experimental grasslands. <i>PLoS ONE</i> , 2010 , 5, e13382	3.7	79
167	Compound-specific $\delta^{13}\text{C}$ and $\delta^2\text{H}$ 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	7.5	78
166	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	5.9	77

165	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, 383-93	10.2	73
164	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	5.9	70
163	Seasonal differences in tree species influence on soil microbial communities. <i>Soil Biology and Biochemistry</i> , 2013 , 66, 239-248	7.5	69
162	Functional diversity of leaf nitrogen concentrations drives grassland carbon fluxes. <i>Ecology Letters</i> , 2014 , 17, 435-44	10	68
161	Plant species diversity affects infiltration capacity in an experimental grassland through changes in soil properties. <i>Plant and Soil</i> , 2015 , 397, 1-16	4.2	67
160	Mechanisms of short-term soil carbon storage in experimental grasslands. <i>Soil Biology and Biochemistry</i> , 2008 , 40, 2634-2642	7.5	66
159	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, 2476-88	2.2	65
158	Effects of tree identity dominate over tree diversity on the soil microbial community structure. <i>Soil Biology and Biochemistry</i> , 2015 , 81, 219-227	7.5	63
157	Complexity of Soil Organic Matter: AMS 14C Analysis of Soil Lipid Fractions and Individual Compounds. <i>Radiocarbon</i> , 2004 , 46, 465-473	4.6	63
156	Carbon isotope pattern in purine alkaloids a key to isotope discriminations in C1 compounds. <i>Phytochemistry</i> , 1996 , 41, 1073-1077	4	63
155	Empirical relationship between leaf wax n-alkane δD and altitude in the Wuyi, Shennongjia and Tianshan Mountains, China: Implications for paleoaltimetry. <i>Earth and Planetary Science Letters</i> , 2011 , 301, 285-296	5.3	62
154	Plant Compounds and Their Turnover and Stabilization as Soil Organic Matter 2001 , 201-215		61
153	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. <i>Ecosphere</i> , 2016 , 7, e01619	3.1	60
152	Correlation between hydrogen isotope ratios of lipid biomarkers and sediment maturity. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 5517-5530	5.5	59
151	Unexpected control of soil carbon turnover by soil carbon concentration. <i>Environmental Chemistry Letters</i> , 2013 , 11, 407-413	13.3	58
150	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	3.4	58
149	Eyes on the future - evidence for trade-offs between growth, storage and defense in Norway spruce. <i>New Phytologist</i> , 2019 , 222, 144-158	9.8	58
148	Importance of root derived carbon for soil organic matter storage in a temperate old-growth beech forest [Evidence from C, N and 14C content. <i>Forest Ecology and Management</i> , 2012 , 263, 131-137	3.9	56

147	Land use in mountain grasslands alters drought response and recovery of carbon allocation and plant-microbial interactions. <i>Journal of Ecology</i> , 2018 , 106, 1230-1243	6	56
146	Foliar and soil $\delta^{15}\text{N}$ values reveal increased nitrogen partitioning among species in diverse grassland communities. <i>Plant, Cell and Environment</i> , 2011 , 34, 895-908	8.4	54
145	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	3.6	53
144	The molecular composition of dissolved organic matter in forest soils as a function of pH and temperature. <i>PLoS ONE</i> , 2015 , 10, e0119188	3.7	52
143	A synthesis of hydrogen isotope variability and its hydrological significance at the Qinghai-Tibetan Plateau. <i>Quaternary International</i> , 2013 , 313-314, 3-16	2	52
142	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	3.1	49
141	Microbial characteristics of soils on a latitudinal transect in Siberia. <i>Global Change Biology</i> , 2003 , 9, 1106-1117	11.7	49
140	Effect of aridity on $\delta^{13}\text{C}$ and D values of C3 plant- and C4 graminoid-derived leaf wax lipids from soils along an environmental gradient in Cameroon (Western Central Africa). <i>Organic Geochemistry</i> , 2015 , 78, 99-109	3.1	48
139	Plant diversity generates enhanced soil microbial access to recently photosynthesized carbon in the rhizosphere. <i>Soil Biology and Biochemistry</i> , 2016 , 94, 122-132	7.5	48
138	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	10.2	48
137	Biocatalysis and electrocatalysis at carbon paste electrodes doped by diaphorase-methylene green and diaphorase-meldola blue. <i>Electroanalysis</i> , 1993 , 5, 201-207	3	47
136	Classification of Terpenoids according to the Methylerythritolphosphate or the Mevalonate Pathway with Natural C/ C Isotope Ratios: Dynamic Allocation of Resources in Induced Plants. <i>Angewandte Chemie - International Edition</i> , 2001 , 40, 2091-2094	16.4	46
135	Late Quaternary hydrological changes inferred from lake level fluctuations of Nam Co (Tibetan Plateau, China). <i>Quaternary International</i> , 2010 , 218, 86-93	2	45
134	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, 142-52	10.2	45
133	Rhizospheric influence on soil respiration and decomposition in a temperate Norway spruce stand. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 2103-2110	7.5	44
132	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	2.6	43
131	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	3.9	43
130	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	6	42

129	Age heterogeneity of soil organic matter. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004 , 223-224, 521-527	1.2	42
128	Functional diversity of microbial communities in pristine aquifers inferred by PLFA- and sequencing-based approaches. <i>Biogeosciences</i> , 2017 , 14, 2697-2714	4.6	41
127	Importance of microbial soil organic matter processing in dissolved organic carbon production. <i>FEMS Microbiology Ecology</i> , 2013 , 86, 139-48	4.3	41
126	Plant diversity shapes microbe-rhizosphere effects on P mobilisation from organic matter in soil. <i>Ecology Letters</i> , 2015 , 18, 1356-65	10	41
125	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	10.2	40
124	Input related microbial carbon dynamic of soil organic matter in particle size fractions. <i>Soil Biology and Biochemistry</i> , 2012 , 47, 209-219	7.5	40
123	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	5.5	40
122	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	5	39
121	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	2.9	38
120	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	6.1	38
119	Source- and substrate-specific export of dissolved organic matter from permafrost-dominated forested watershed in central Siberia. <i>Global Biogeochemical Cycles</i> , 2007 , 21, n/a-n/a	5.9	37
118	Soil microbial carbon turnover decreases with increasing molecular size. <i>Soil Biology and Biochemistry</i> , 2013 , 62, 115-118	7.5	36
117	Effect of precipitation regime on δ values of soil n-alkanes from elevation gradients – implications for the study of paleo-elevation. <i>Organic Geochemistry</i> , 2011 , 42, 838-845	3.1	36
116	Land Use Alters the Drought Responses of Productivity and CO Fluxes in Mountain Grassland. <i>Ecosystems</i> , 2018 , 21, 689-703	3.9	35
115	$\delta^{13}C$ 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	6	35
114	Possible mechanisms underlying abundance and diversity responses of nematode communities to plant diversity. <i>Ecosphere</i> , 2017 , 8, e01719	3.1	34
113	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	5.7	34
112	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	4.8	34

111	Drought-Induced Accumulation of Root Exudates Supports Post-drought Recovery of Microbes in Mountain Grassland. <i>Frontiers in Plant Science</i> , 2018 , 9, 1593	6.2	34
110	Growth-dependent stable carbon isotope fractionation by basidiomycete fungi: delta(13)C pattern and physiological process. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4956-64	4.8	33
109	Tracking the autochthonous carbon transfer in stream biofilm food webs. <i>FEMS Microbiology Ecology</i> , 2012 , 79, 118-31	4.3	32
108	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	9.8	31
107	The results of biodiversity-ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1485-1494	12.3	31
106	Genotypic variability enhances the reproducibility of an ecological study. <i>Nature Ecology and Evolution</i> , 2018 , 2, 279-287	12.3	30
105	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1602-1611	12.3	30
104	Identification of novel 7-methyl and cyclopentanyl branched glycerol dialkyl glycerol tetraethers in lake sediments. <i>Organic Geochemistry</i> , 2016 , 102, 52-58	3.1	30
103	Ecosystem-Specific Composition of Dissolved Organic Matter. <i>Vadose Zone Journal</i> , 2014 , 13, vj2013.0920162	16.2	29
102	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	3.1	29
101	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, 4135-4142	2.2	29
100	The sources and distribution of carbon (DOC, POC, DIC) in a mangrove dominated estuary (French Guiana, South America). <i>Biogeochemistry</i> , 2018 , 138, 297-321	3.8	28
99	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	6.3	28
98	Altered carbon turnover processes and microbiomes in soils under long-term extremely high CO ₂ exposure. <i>Nature Microbiology</i> , 2016 , 1, 15025	26.6	27
97	<i>Pinus sylvestris</i> switches respiration substrates under shading but not during drought. <i>New Phytologist</i> , 2015 , 207, 542-50	9.8	27
96	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	5.3	26
95	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, 173-80	2.2	26
94	Oxygen isotope ratios of sedimentary biogenic silica reflect the European transcontinental climate gradient. <i>Journal of Quaternary Science</i> , 2008 , 23, 341-350	2.3	25

93	Do n-alkane biomarkers in soils/sediments reflect the $\delta^2\text{H}$ 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, 508-24	1.5	24
92	Linking molecular size, composition and carbon turnover of extractable soil microbial compounds. <i>Soil Biology and Biochemistry</i> , 2016 , 100, 66-73	7.5	23
91	Plant wax 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	3.9	23
90	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	5.5	23
89	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	3.3	23
88	Change of methane production pathway with sediment depth in a lake on the Tibetan plateau. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017 , 474, 279-286	2.9	22
87	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	5.5	22
86	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	3.4	22
85	Plant effects on soil N mineralization are mediated by the composition of multiple soil organic fractions. <i>Ecological Research</i> , 2011 , 26, 201-208	1.9	22
84	Response of 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	2	21
83	Bisnorgammacerane traces predatory pressure and the persistent rise of algal ecosystems after Snowball Earth. <i>Nature Communications</i> , 2019 , 10, 476	17.4	20
82	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	2.6	20
81	Reduced early Holocene moisture availability inferred from D values of sedimentary n-alkanes in Zigetang Co, Central Tibetan Plateau. <i>Holocene</i> , 2016 , 26, 556-566	2.6	20
80	Methanogenic pathways, ^{13}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	3.7	20
79	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	13.3	19
78	An isotopic method for testing the influence of leaf litter quality on carbon fluxes during decomposition. <i>Oecologia</i> , 2007 , 154, 155-66	2.9	19
77	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,	3.5	19
76	Climate variability in the past ~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	3.9	18

75	Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. <i>Nature Ecology and Evolution</i> , 2020 , 4, 393-405	12.3	18
74	Reconstruction of palaeohydrological conditions in a lagoon during the 2nd Zechstein cycle through simultaneous use of δD 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	2.2	18
73	Experimental determination of natural carbonate rock dissolution rates with a focus on temperature dependency. <i>Geomorphology</i> , 2016 , 261, 30-40	4.3	17
72	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	2.1	16
71	Online stable isotope analysis of dissolved organic carbon size classes using size exclusion chromatography coupled to an isotope ratio mass spectrometer. <i>Environmental Science & Technology</i> , 2012 , 46, 10123-9	10.3	16
70	Do stable isotopes reflect the food web development in regenerating ecosystems?. <i>Isotopes in Environmental and Health Studies</i> , 2000 , 36, 285-301	1.5	16
69	Carbon quality affects the nitrogen partitioning between plants and soil microorganisms. <i>Soil Biology and Biochemistry</i> , 2015 , 81, 266-274	7.5	15
68	Soil Carbon Accumulation in Old-Growth Forests. <i>Ecological Studies</i> , 2009 , 231-266	1.1	15
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