Gerd Gleixner

List of Publications by Year in Descending Order

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	FungalTraits vs. FUNGuild: Comparison of Ecological Functional Assignments of Leaf- and Needle-Associated Fungi Across 12 Temperate Tree Species.. *Microbial Ecology*, **2022**, 1	4.4	2
217	Nematode grazing increases the allocation of plant-derived carbon to soil bacteria and saprophytic fungi, and activates bacterial species of the rhizosphere. *Pedobiologia*, **2022**, 90, 150787	1.7	0
216	Microbial community functioning during plant litter decomposition.. *Scientific Reports*, **2022**, 12, 7451	4.9	1
215	Insights Into the Known C Depletion of Methane-Contribution of the Kinetic Isotope Effects on the Serine Hydroxymethyltransferase Reaction.. *Frontiers in Chemistry*, **2021**, 9, 698067	5	0
214	Seasonal variation of leaf wax n-alkane δ^2H values: Differences between Quercus aquifolioides (an evergreen tree) and Stipa bungeana (a perennial grass) from the southeastern Tibetan Plateau. *Global and Planetary Change*, **2021**, 207, 103674	4.2	0
213	Grasshopper herbivory immediately affects element cycling but not export rates in an N-limited grassland system. *Ecosphere*, **2021**, 12, e03449	3.1	1
212	Late-Holocene fluctuations of monsoonal Qiangyong Glacier, southern Tibetan Plateau. *Holocene*, **2021**, 31, 1138-1147	2.6	0
211	Above- and belowground biodiversity jointly tighten the P cycle in agricultural grasslands. *Nature Communications*, **2021**, 12, 4431	17.4	5
210	Plant diversity enhances production and downward transport of biodegradable dissolved organic matter. *Journal of Ecology*, **2021**, 109, 1284-1297	6	3
209	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,	11.5	5
208	Molecular links between whitesand ecosystems and blackwater formation in the Rio Negro watershed. *Geochimica Et Cosmochimica Acta*, **2021**, 311, 274-291	5.5	1
207	Seasonal Patterns of Dominant Microbes Involved in Central Nutrient Cycles in the Subsurface. *Microorganisms*, **2020**, 8,	4.9	4
206	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	2.6	43
205	Biomolecular Evidence of Early Human Occupation of a High-Altitude Site in Western Central Asia During the Holocene. *Frontiers in Earth Science*, **2020**, 8,	3.5	13
204	Biodiversity increases multitrophic energy use efficiency, flow and storage in grasslands. *Nature Ecology and Evolution*, **2020**, 4, 393-405	12.3	18
203	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	11.4	10
202	Reconstruction of the Late Holocene climate and environmental history from North Bolgoda Lake, Sri Lanka, using lipid biomarkers and pollen records. *Journal of Quaternary Science*, **2020**, 35, 514-525	2.3	3

201	Plant traits alone are poor predictors of ecosystem properties and long-term ecosystem functioning. *Nature Ecology and Evolution*, **2020**, 4, 1602-1611	12.3	30
200	Mangrove-Derived Organic and Inorganic Carbon Exchanges Between the Sinnamary Estuarine System (French Guiana, South America) and Atlantic Ocean. *Journal of Geophysical Research G: Biogeosciences*, **2020**, 125, e2020JG005739	3.7	5
199	Characteristics and origin of intact polar lipids in soil organic matter. *Soil Biology and Biochemistry*, **2020**, 151, 108045	7.5	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. *Frontiers in Earth Science*, **2020**, 8,	3.5	3
197	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	11.5	12
196	The results of biodiversity-ecosystem functioning experiments are realistic. *Nature Ecology and Evolution*, **2020**, 4, 1485-1494	12.3	31
195	Production of constitutive and induced secondary metabolites is coordinated with growth and storage in Norway spruce saplings. *Tree Physiology*, **2020**, 40, 928-942	4.2	8
194	Bisnorgammacerane traces predatory pressure and the persistent rise of algal ecosystems after Snowball Earth. *Nature Communications*, **2019**, 10, 476	17.4	20
193	Sustainability of Impacts of Poplar Growth on Soil Organic Matter in Eutric Cambisols. *Soil Systems*, **2019**, 3, 32	3.5	
192	Isolation of Individual Saturated Fatty Acid Methyl Esters Derived From Groundwater Phospholipids by Preparative High-Pressure Liquid Chromatography for Compound-Specific Radiocarbon Analyses. *Water Resources Research*, **2019**, 55, 2521-2531	5.4	2
191	Functional composition has stronger impact than species richness on carbon gain and allocation in experimental grasslands. *PLoS ONE*, **2019**, 14, e0204715	3.7	4
190	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	3.8	12
189	Plant species richness and functional groups have different effects on soil water content in a decade-long grassland experiment. *Journal of Ecology*, **2019**, 107, 127-141	6	42
188	Persistence of dissolved organic matter explained by molecular changes during its passage through soil. *Nature Geoscience*, **2019**, 12, 755-761	18.3	96
187	How plant diversity impacts the coupled water, nutrient and carbon cycles. *Advances in Ecological Research*, **2019**, 61, 185-219	4.6	14
186	A new experimental approach to test why biodiversity effects strengthen as ecosystems age. *Advances in Ecological Research*, **2019**, 221-264	4.6	13
185	Fueling Diversity in the Subsurface: Composition and Age of Dissolved Organic Matter in the Critical Zone. *Frontiers in Earth Science*, **2019**, 7,	3.5	12
184	C-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	5.4	12

183	Carbon isotope fractionation including photosynthetic and post-photosynthetic processes in C3 plants: Low [CO2] matters. *Geochimica Et Cosmochimica Acta*, **2019**, 245, 1-15	5.5	10
182	Eyes on the future - evidence for trade-offs between growth, storage and defense in Norway spruce. *New Phytologist*, **2019**, 222, 144-158	9.8	58
181	Genotypic variability enhances the reproducibility of an ecological study. *Nature Ecology and Evolution*, **2018**, 2, 279-287	12.3	30
180	Land Use Alters the Drought Responses of Productivity and CO Fluxes in Mountain Grassland. *Ecosystems*, **2018**, 21, 689-703	3.9	35
179	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	10.2	13
178	Environmental Control on Microbial Turnover of Leaf Carbon in Streams - Ecological Function of Phototrophic-Heterotrophic Interactions. *Frontiers in Microbiology*, **2018**, 9, 1044	5.7	8
177	Connecting experimental biodiversity research to real-world grasslands. *Perspectives in Plant Ecology, Evolution and Systematics*, **2018**, 33, 78-88	3	12
176	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	10.2	48
175	Land use in mountain grasslands alters drought response and recovery of carbon allocation and plant-microbial interactions. *Journal of Ecology*, **2018**, 106, 1230-1243	6	56
174	Lignin Dimers as Potential Markers for 14C-young Terrestrial Dissolved Organic Matter in the Critical Zone. *Frontiers in Earth Science*, **2018**, 6,	3.5	5
173	Standardized protocols and procedures can precisely and accurately quantify non-structural carbohydrates. *Tree Physiology*, **2018**, 38, 1764-1778	4.2	82
172	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,	3.5	19
171	Drought-Induced Accumulation of Root Exudates Supports Post-drought Recovery of Microbes in Mountain Grassland. *Frontiers in Plant Science*, **2018**, 9, 1593	6.2	34
170	In situ production of core and intact bacterial and archaeal tetraether lipids in groundwater. *Organic Geochemistry*, **2018**, 126, 1-12	3.1	4
169	Land use driven change in soil pH affects microbial carbon cycling processes. *Nature Communications*, **2018**, 9, 3591	17.4	152
168	The sources and distribution of carbon (DOC, POC, DIC) in a mangrove dominated estuary (French Guiana, South America). *Biogeochemistry*, **2018**, 138, 297-321	3.8	28
167	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	6.3	28
166	Change of methane production pathway with sediment depth in a lake on the Tibetan plateau. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2017**, 474, 279-286	2.9	22

165	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	10.2	40
164	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	5.5	22
163	Possible mechanisms underlying abundance and diversity responses of nematode communities to plant diversity. *Ecosphere*, **2017**, 8, e01719	3.1	34
162	Climate variability in the past ~19,000 yr in NE Tibetan Plateau inferred from biomarker and stable isotope records of Lake Donggi Cona. *Quaternary Science Reviews*, **2017**, 157, 129-140	3.9	18
161	Phosphorus Release from Mineral Soil by Acid Hydrolysis: Method Development, Kinetics, and Plant Community Composition Effects. *Soil Science Society of America Journal*, **2017**, 81, 1389-1400	2.5	3
160	ORCHIDEE-SOM: Modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe **2017**,		1
159	Functional diversity of microbial communities in pristine aquifers inferred by PLFA- and sequencing-based approaches. *Biogeosciences*, **2017**, 14, 2697-2714	4.6	41
158	Root chemistry and soil fauna, but not soil abiotic conditions explain the effects of plant diversity on root decomposition. *Oecologia*, **2017**, 185, 499-511	2.9	11
157	Rapid northward shift of the Indian Monsoon on the Tibetan Plateau at the end of the Little Ice Age. *Journal of Geophysical Research D: Atmospheres*, **2017**, 122, 9262-9279	4.4	2
156	Biodiversity effects on ecosystem functioning in a 15-year grassland experiment: Patterns, mechanisms, and open questions. *Basic and Applied Ecology*, **2017**, 23, 1-73	3.2	184
155	Carbon Allocation in RHA1 in Response to Disruption and Overexpression of Regulatory Gene, Based on C-labeling Analysis. *Frontiers in Microbiology*, **2017**, 8, 1992	5.7	9
154	Above and below ground carbohydrate allocation differs between ash (Fraxinus excelsior L.) and beech (Fagus sylvatica L.). *PLoS ONE*, **2017**, 12, e0184247	3.7	5
153	Altered carbon turnover processes and microbiomes in soils under long-term extremely high CO2 exposure. *Nature Microbiology*, **2016**, 1, 15025	26.6	27
152	Genotypic variability enhances the reproducibility of an ecological study **2016**,		2
151	Linking molecular size, composition and carbon turnover of extractable soil microbial compounds. *Soil Biology and Biochemistry*, **2016**, 100, 66-73	7.5	23
150	Biogeochemical evidence for freshwater periods during the Last Glacial Maximum recorded in lake sediments from Nam Co, south-central Tibetan Plateau. *Journal of Paleolimnology*, **2016**, 55, 67-82	2.1	8
149	Reduced early Holocene moisture availability inferred from δD values of sedimentary n-alkanes in Zigetang Co, Central Tibetan Plateau. *Holocene*, **2016**, 26, 556-566	2.6	20
148	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	2.1	16

147	Plant diversity generates enhanced soil microbial access to recently photosynthesized carbon in the rhizosphere. *Soil Biology and Biochemistry*, **2016**, 94, 122-132	7.5	48
146	Plant wax D values record changing Eastern Mediterranean atmospheric circulation patterns during the 8.2 kyr B.P. climatic event. *Quaternary Science Reviews*, **2016**, 133, 96-107	3.9	23
145	Soil Fungal:Bacterial Ratios Are Linked to Altered Carbon Cycling. *Frontiers in Microbiology*, **2016**, 7, 1247	5.7	159
144	Effects of biodiversity strengthen over time as ecosystem functioning declines at low and increases at high biodiversity. *Ecosphere*, **2016**, 7, e01619	3.1	60
143	Experimental determination of natural carbonate rock dissolution rates with a focus on temperature dependency. *Geomorphology*, **2016**, 261, 30-40	4.3	17
142	Identification of novel 7-methyl and cyclopentanyl branched glycerol dialkyl glycerol tetraethers in lake sediments. *Organic Geochemistry*, **2016**, 102, 52-58	3.1	30
141	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, 142-52	10.2	45
140	Do n-alkane biomarkers in soils/sediments reflect the 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, 508-24	1.5	24
139	Special Issue dedicated to Professor Hanns-Ludwig Schmidt on the occasion of his 85th birthday. *Isotopes in Environmental and Health Studies*, **2015**, 51, 1-6	1.5	3
138	The molecular composition of dissolved organic matter in forest soils as a function of pH and temperature. *PLoS ONE*, **2015**, 10, e0119188	3.7	52
137	Plant diversity increases soil microbial activity and soil carbon storage. *Nature Communications*, **2015**, 6, 6707	17.4	575
136	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	2.6	20
135	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	2.9	38
134	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	5	39
133	Dinosterol D values in stratified tropical lakes (Cameroon) are affected by eutrophication. *Organic Geochemistry*, **2015**, 88, 35-49	3.1	4
132	Carbon quality affects the nitrogen partitioning between plants and soil microorganisms. *Soil Biology and Biochemistry*, **2015**, 81, 266-274	7.5	15
131	Effects of tree identity dominate over tree diversity on the soil microbial community structure. *Soil Biology and Biochemistry*, **2015**, 81, 219-227	7.5	63
130	Effect of aridity on 13C and D values of C3 plant- and C4 graminoid-derived leaf wax lipids from soils along an environmental gradient in Cameroon (Western Central Africa). *Organic Geochemistry*, **2015**, 78, 99-109	3.1	48

129	Plant diversity shapes microbe-rhizosphere effects on P mobilisation from organic matter in soil. *Ecology Letters*, **2015**, 18, 1356-65	10	41
128	Pinus sylvestris switches respiration substrates under shading but not during drought. *New Phytologist*, **2015**, 207, 542-50	9.8	27
127	Rhizosphere bacterial carbon turnover is higher in nucleic acids than membrane lipids: implications for understanding soil carbon cycling. *Frontiers in Microbiology*, **2015**, 6, 268	5.7	34
126	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	5.3	26
125	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	6.1	38
124	Quaternary ecological responses and impacts of the Indian Ocean Summer Monsoon at Nam Co, Southern Tibetan Plateau. *Quaternary Science Reviews*, **2015**, 112, 66-77	3.9	43
123	Plant species diversity affects infiltration capacity in an experimental grassland through changes in soil properties. *Plant and Soil*, **2015**, 397, 1-16	4.2	67
122	An optimal defense strategy for phenolic glycoside production in Populus trichocarpa--isotope labeling demonstrates secondary metabolite production in growing leaves. *New Phytologist*, **2014**, 203, 607-619	9.8	31
121	Functional diversity of leaf nitrogen concentrations drives grassland carbon fluxes. *Ecology Letters*, **2014**, 17, 435-44	10	68
120	Trace element variability in single ostracod valves as a proxy for hydrochemical change in Nam Co, central Tibet, during the Holocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **2014**, 399, 225-235	2.9	9
119	Reconstructing C3 and C4 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	5.5	93
118	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	2.6	53
117	Increased belowground carbon inputs and warming promote loss of soil organic carbon through complementary microbial responses. *Soil Biology and Biochemistry*, **2014**, 76, 57-69	7.5	89
116	Ecosystem-Specific Composition of Dissolved Organic Matter. *Vadose Zone Journal*, **2014**, 13, vzj2013.09.0162	2.7	29
115	Biotic and abiotic properties mediating plant diversity effects on soil microbial communities in an experimental grassland. *PLoS ONE*, **2014**, 9, e96182	3.7	136
114	Influence of litter diversity on dissolved organic matter release and soil carbon formation in a mixed beech forest. *PLoS ONE*, **2014**, 9, e114040	3.7	10
113	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	3.1	49
112	Mechanisms linking plant community properties to soil aggregate stability in an experimental grassland plant diversity gradient. *Plant and Soil*, **2013**, 373, 285-299	4.2	83

111	Importance of microbial soil organic matter processing in dissolved organic carbon production. *FEMS Microbiology Ecology*, **2013**, 86, 139-48	4.3	41
110	A comparison of the strength of biodiversity effects across multiple functions. *Oecologia*, **2013**, 173, 223-37	2.9	82
109	Methanogenic pathways, 13C 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	3.7	20
108	Soil organic matter dynamics: a biological perspective derived from the use of compound-specific isotopes studies. *Ecological Research*, **2013**, 28, 683-695	1.9	137
107	A synthesis of hydrogen isotope variability and its hydrological significance at the Qinghai□Tibetan Plateau. *Quaternary International*, **2013**, 313-314, 3-16	2	52
106	Unexpected control of soil carbon turnover by soil carbon concentration. *Environmental Chemistry Letters*, **2013**, 11, 407-413	13.3	58
105	Seasonal differences in tree species□influence on soil microbial communities. *Soil Biology and Biochemistry*, **2013**, 66, 239-248	7.5	69
104	Variable effects of plant colonization on black slate uptake into microbial PLFAs. *Geochimica Et Cosmochimica Acta*, **2013**, 106, 391-403	5.5	9
103	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	5.5	40
102	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	7.5	122
101	Soil microbial carbon turnover decreases with increasing molecular size. *Soil Biology and Biochemistry*, **2013**, 62, 115-118	7.5	36
100	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	7.5	126
99	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	3.4	22
98	Input related microbial carbon dynamic of soil organic matter in particle size fractions. *Soil Biology and Biochemistry*, **2012**, 47, 209-219	7.5	40
97	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, 10123-9	10.3	16
96	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	3.1	29
95	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	3.9	56
94	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	5.5	121

93	The stable isotopic signature of biologically produced molecular hydrogen (H₂). *Biogeosciences*, **2012**, 9, 4115-4123	4.6	12
92	Simultaneous determination of the quantity and isotopic signature of dissolved organic matter from soil water using high-performance liquid chromatography/isotope ratio mass spectrometry. *Rapid Communications in Mass Spectrometry*, **2012**, 26, 173-80	2.2	26
91	Tracking the autochthonous carbon transfer in stream biofilm food webs. *FEMS Microbiology Ecology*, **2012**, 79, 118-31	4.3	32
90	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	5.9	77
89	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	5.5	23
88	Empirical relationship between leaf wax n-alkane D and altitude in the Wuyi, Shennongjia and Tianshan Mountains, China: Implications for paleoaltimetry. *Earth and Planetary Science Letters*, **2011**, 301, 285-296	5.3	62
87	Effect of precipitation regime on D values of soil n-alkanes from elevation gradients Implications for the study of paleo-elevation. *Organic Geochemistry*, **2011**, 42, 838-845	3.1	36
86	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	3.1	83
85	Response of D 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	2	21
84	Foliar and soil 15N values reveal increased nitrogen partitioning among species in diverse grassland communities. *Plant, Cell and Environment*, **2011**, 34, 895-908	8.4	54
83	Dissolved carbon leaching from soil is a crucial component of the net ecosystem carbon balance. *Global Change Biology*, **2011**, 17, 1167-1185	11.4	317
82	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	11.4	99
81	Increases in soil organic carbon sequestration can reduce the global warming potential of long-term liming to permanent grassland. *Global Change Biology*, **2011**, 17, 2762-2762	11.4	4
80	Plant effects on soil N mineralization are mediated by the composition of multiple soil organic fractions. *Ecological Research*, **2011**, 26, 201-208	1.9	22
79	Diversity promotes temporal stability across levels of ecosystem organization in experimental grasslands. *PLoS ONE*, **2010**, 5, e13382	3.7	79
78	Leaf wax n-alkane D values of field-grown barley reflect leaf water D values at the time of leaf formation. *Geochimica Et Cosmochimica Acta*, **2010**, 74, 6741-6750	5.5	99
77	The occurrence of short chain n-alkanes with an even over odd predominance in higher plants and soils. *Organic Geochemistry*, **2010**, 41, 88-95	3.1	83
76	Late Quaternary hydrological changes inferred from lake level fluctuations of Nam Co (Tibetan Plateau, China). *Quaternary International*, **2010**, 218, 86-93	2	45

75	Plant diversity effects on soil microorganisms support the singular hypothesis. *Ecology*, **2010**, 91, 485-96	4.6	314
74	A multi-proxy approach to reconstruct hydrological changes and Holocene climate development of Nam Co, Central Tibet. *Journal of Paleolimnology*, **2010**, 43, 625-648	2.1	125
73	Direct and indirect effects of tree diversity drive soil microbial diversity in temperate deciduous forest. *Soil Biology and Biochemistry*, **2010**, 42, 1558-1565	7.5	152
72	Effect of biochar amendment on soil carbon balance and soil microbial activity. *Soil Biology and Biochemistry*, **2009**, 41, 1301-1310	7.5	624
71	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	13.3	19
70	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, 2476-88	2.2	65
69	Molecular turnover time of soil organic matter in particle-size fractions of an arable soil. *Rapid Communications in Mass Spectrometry*, **2009**, 23, 2551-8	2.2	87
68	Grazing triggers soil carbon loss by altering plant roots and their control on soil microbial community. *Journal of Ecology*, **2009**, 97, 876-885	6	144
67	Overstory-specific effects of litter fall on the microbial carbon turnover in a mature deciduous forest. *Forest Ecology and Management*, **2009**, 258, 109-114	3.9	11
66	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	3.1	116
65	Old-Growth Forests: Function, Fate and Value an Overview. *Ecological Studies*, **2009**, 3-10	1.1	10
64	Retraction: Paleoclimatic implications of the hydrogen isotopic composition of terrigenous n-alkanes from Lake Yamzho, southern Tibetan Plateau. *Geochemical Journal*, **2009**, 43, 275-286	0.9	
63	Soil Carbon Accumulation in Old-Growth Forests. *Ecological Studies*, **2009**, 231-266	1.1	15
62	Plant diversity positively affects short-term soil carbon storage in experimental grasslands. *Global Change Biology*, **2008**, 14, 2937-2949	11.4	207
61	Soil organic matter in soil depth profiles: Distinct carbon preferences of microbial groups during carbon transformation. *Soil Biology and Biochemistry*, **2008**, 40, 425-433	7.5	302
60	Organic carbon sequestration in earthworm burrows. *Soil Biology and Biochemistry*, **2008**, 40, 1803-1812	7.5	137
59	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	7.5	95
58	Mechanisms of short-term soil carbon storage in experimental grasslands. *Soil Biology and Biochemistry*, **2008**, 40, 2634-2642	7.5	66

57	Effect of lake evaporation on D values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan Plateau) and Holzmaar (Germany). *Organic Geochemistry*, **2008**, 39, 711-729	3.1	118
56	How relevant is recalcitrance for the stabilization of organic matter in soils?. *Journal of Plant Nutrition and Soil Science*, **2008**, 171, 91-110	2.3	498
55	Soil-carbon preservation through habitat constraints and biological limitations on decomposer activity. *Journal of Plant Nutrition and Soil Science*, **2008**, 171, 27-35	2.3	135
54	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	2.3	84
53	Tracking carbon flow in a 2-week-old and 6-week-old stream biofilm food web. *Limnology and Oceanography*, **2008**, 53, 642-650	4.8	34
52	Oxygen isotope ratios of sedimentary biogenic silica reflect the European transcontinental climate gradient. *Journal of Quaternary Science*, **2008**, 23, 341-350	2.3	25
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2	Plant traits are poor predictors of long-term ecosystem functioning		2
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