

# Francien Peterse

## List of Publications by Year in descending order

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Version: 2024-02-01

78  
papers

3,606  
citations

147801

31  
h-index

144013

57  
g-index

120  
all docs

120  
docs citations

120  
times ranked

3321  
citing authors

#	ARTICLE	IF	CITATIONS
1	Revised calibration of the MBT/CBT paleotemperature proxy based on branched tetraether membrane lipids in surface soils. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 96, 215-229.	3.9	369
2	Constraints on the application of the MBT/CBT palaeothermometer at high latitude environments (Svalbard, Norway). <i>Organic Geochemistry</i> , 2009, 40, 692-699.	1.8	232
3	Decoupled warming and monsoon precipitation in East Asia over the last deglaciation. <i>Earth and Planetary Science Letters</i> , 2011, 301, 256-264.	4.4	204
4	Synchronous tropical and polar temperature evolution in the Eocene. <i>Nature</i> , 2018, 559, 382-386.	27.8	185
5	Soil organic matter chemistry in allophanic soils: a pyrolysis-GC/MS study of a Costa Rican Andosol catena. <i>European Journal of Soil Science</i> , 2007, 58, 1330-1347.	3.9	175
6	Molecular records of continental air temperature and monsoon precipitation variability in East Asia spanning the past 130,000 years. <i>Quaternary Science Reviews</i> , 2014, 83, 76-82.	3.0	118
7	Absence of seasonal patterns in MBT/CBT indices in mid-latitude soils. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3179-3190.	3.9	113
8	BayMBT: A Bayesian calibration model for branched glycerol dialkyl glycerol tetraethers in soils and peats. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 268, 142-159.	3.9	110
9	Influence of soil pH on the abundance and distribution of core and intact polar lipid-derived branched GDGTs in soil. <i>Organic Geochemistry</i> , 2010, 41, 1171-1175.	1.8	105
10	Low ammonia niche of ammonia-oxidizing archaea in rotating biological contactors of a municipal wastewater treatment plant. <i>Environmental Microbiology</i> , 2012, 14, 2589-2600.	3.8	82
11	Assessment of soil $\delta^{13}C$ -alkane $\delta^{13}C$ and branched tetraether membrane lipid distributions as tools for paleoelevation reconstruction. <i>Biogeosciences</i> , 2009, 6, 2799-2807.	3.3	79
12	Lipid biomarker temperature proxy responds to abrupt shift in the bacterial community composition in geothermally heated soils. <i>Organic Geochemistry</i> , 2019, 137, 103897.	1.8	78
13	Earthworms act as biochemical reactors to convert labile plant compounds into stabilized soil microbial necromass. <i>Communications Biology</i> , 2019, 2, 441.	4.4	77
14	An interlaboratory study of TEX <sub>86</sub> and BIT analysis of sediments, extracts, and standard mixtures. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 5263-5285.	2.5	76
15	Arctic vegetation, temperature, and hydrology during Early Eocene transient global warming events. <i>Global and Planetary Change</i> , 2019, 178, 139-152.	3.5	68
16	Identification and distribution of intact polar branched tetraether lipids in peat and soil. <i>Organic Geochemistry</i> , 2011, 42, 1007-1015.	1.8	66
17	Sources of glycerol dialkyl glycerol tetraethers (GDGTs) in catchment soils, water column and sediments of Lake Rotsee (Switzerland) – Implications for the application of GDGT-based proxies for lakes. <i>Organic Geochemistry</i> , 2014, 66, 164-173.	1.8	64
18	Astronomical age constraints and extinction mechanisms of the Late Triassic Carnian crisis. <i>Scientific Reports</i> , 2017, 7, 2557.	3.3	61

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19	Seasonal variability in the abundance and stable carbon-isotopic composition of lipid biomarkers in suspended particulate matter from a stratified equatorial lake (Lake Chala, Kenya/Tanzania): Implications for the sedimentary record. <i>Quaternary Science Reviews</i> , 2018, 192, 208-224.	3.0	57
20	Distribution of branched tetraether lipids in geothermally heated soils: Implications for the MBT/CBT temperature proxy. <i>Organic Geochemistry</i> , 2009, 40, 201-205.	1.8	54
21	Lessons from a high-CO <sub>2</sub> world: an ocean view from 4 million years ago. <i>Climate of the Past</i> , 2020, 16, 1599-1615.	3.4	52
22	Large ancient organic matter contributions to Arctic marine sediments (Svalbard). <i>Limnology and Oceanography</i> , 2011, 56, 1463-1474.	3.1	51
23	Latest Cretaceous climatic and environmental change in the South Atlantic region. <i>Paleoceanography</i> , 2017, 32, 466-483.	3.0	51
24	Tracing the methane cycle with lipid biomarkers in Lake Rotsee (Switzerland). <i>Organic Geochemistry</i> , 2014, 66, 174-181.	1.8	49
25	Biomarkers record environmental changes along an altitudinal transect in the wettest place on Earth. <i>Organic Geochemistry</i> , 2013, 60, 93-99.	1.8	48
26	Branched glycerol dialkyl glycerol tetraethers in Arctic lake sediments: Sources and implications for paleothermometry at high latitudes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 1738-1754.	3.0	46
27	Using tetraether lipids archived in North Sea Basin sediments to extract North Western European Pliocene continental air temperatures. <i>Earth and Planetary Science Letters</i> , 2018, 490, 193-205.	4.4	46
28	Paleoceanography and ice sheet variability offshore Wilkes Land, Antarctica – Part 3: Insights from Oligocene–Miocene TEX <sub>86</sub> -based sea surface temperature reconstructions. <i>Climate of the Past</i> , 2018, 14, 1275-1297.	3.4	42
29	Sources of organic matter in Changjiang (Yangtze River) bed sediments: Preliminary insights from organic geochemical proxies. <i>Organic Geochemistry</i> , 2015, 85, 11-21.	1.8	36
30	Massive and rapid predominantly volcanic CO <sub>2</sub> emission during the end-Permian mass extinction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	35
31	Evolution of biomolecular loadings along a major river system. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 223, 389-404.	3.9	34
32	The influence of soil chemistry on branched tetraether lipids in mid- and high latitude soils: Implications for brGDGT- based paleothermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 310, 95-112.	3.9	34
33	Widespread Warming Before and Elevated Barium Burial During the Paleocene–Eocene Thermal Maximum: Evidence for Methane Hydrate Release?. <i>Paleoceanography and Paleoclimatology</i> , 2019, 34, 546-566.	2.9	33
34	Late Pliocene–Pleistocene expansion of C4 vegetation in semiarid East Asia linked to increased burning. <i>Geology</i> , 2014, 42, 1067-1070.	4.4	32
35	Seasonal variability and sources of in situ brGDGT production in a permanently stratified African crater lake. <i>Biogeosciences</i> , 2020, 17, 5443-5463.	3.3	31
36	Branched GDGT signals in fluvial sediments of the Danube River basin: Method comparison and longitudinal evolution. <i>Organic Geochemistry</i> , 2017, 103, 88-96.	1.8	30

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37	Organic matter characteristics in yedoma and thermokarst deposits on Baldwin Peninsula, west Alaska. <i>Biogeosciences</i> , 2018, 15, 6033-6048.	3.3	28
38	Robust multi-proxy data integration, using late Cretaceous paleotemperature records as a case study. <i>Earth and Planetary Science Letters</i> , 2018, 500, 215-224.	4.4	24
39	Rapid expansion of meso-megathermal rain forests into the southern high latitudes at the onset of the Paleocene-Eocene Thermal Maximum. <i>Geology</i> , 2021, 49, 40-44.	4.4	24
40	Contribution of river-borne soil organic carbon to the Gulf of Lions (NW Mediterranean). <i>Limnology and Oceanography</i> , 2010, 55, 507-518.	3.1	23
41	Late Paleocene–early Eocene Arctic Ocean sea surface temperatures: reassessing biomarker paleothermometry at Lomonosov Ridge. <i>Climate of the Past</i> , 2020, 16, 2381-2400.	3.4	22
42	Contribution of river-borne soil organic carbon to the Gulf of Lions (NW Mediterranean). <i>Limnology and Oceanography</i> , 2010, 55, 507-518.	3.1	21
43	Late Pleistocene climate evolution in Southeastern Europe recorded by soil bacterial membrane lipids in Serbian loess. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 449, 141-148.	2.3	21
44	Harmful algae and export production collapse in the equatorial Atlantic during the zenith of Middle Eocene Climatic Optimum warmth. <i>Geology</i> , 2019, 47, 247-250.	4.4	21
45	Biomarkers in Lake Van sediments reveal dry conditions in eastern Anatolia during 110,000–10,000 years BP. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 571-583.	2.5	20
46	Late Quaternary climate variability at Mfabeni peatland, eastern South Africa. <i>Climate of the Past</i> , 2019, 15, 1153-1170.	3.4	20
47	Reconciling drainage and receiving basin signatures of the Godavari River system. <i>Biogeosciences</i> , 2018, 15, 3357-3375.	3.3	19
48	Links between microbial biomass and necromass components in the top- and subsoils of temperate grasslands along an aridity gradient. <i>Geoderma</i> , 2020, 379, 114623.	5.1	18
49	Assessing branched tetraether lipids as tracers of soil organic carbon transport through the Carminowe Creek catchment (southwest England). <i>Biogeosciences</i> , 2020, 17, 3183-3201.	3.3	18
50	Seasonal and multi-annual variation in the abundance of isoprenoid GDGT membrane lipids and their producers in the water column of a meromictic equatorial crater lake (Lake Chala, East Africa). <i>Quaternary Science Reviews</i> , 2021, 273, 107263.	3.0	18
51	From Andes to Amazon: Assessing Branched Tetraether Lipids as Tracers for Soil Organic Carbon in the Madre de Dios River System. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020, 125, e2019JG005270.	3.0	17
52	Surface-circulation change in the southwest Pacific Ocean across the Middle Eocene Climatic Optimum: inferences from dinoflagellate cysts and biomarker paleothermometry. <i>Climate of the Past</i> , 2020, 16, 1667-1689.	3.4	17
53	A laboratory experiment on the behaviour of soil-derived core and intact polar GDGTs in aquatic environments. <i>Biogeosciences</i> , 2015, 12, 933-943.	3.3	16
54	Organic carbon isotope and molecular fossil records of vegetation evolution in central Loess Plateau since 450 kyr. <i>Science China Earth Sciences</i> , 2016, 59, 1206-1215.	5.2	15

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55	Long-chain diols in rivers: distribution and potential biological sources. <i>Biogeosciences</i> , 2018, 15, 4147-4161.	3.3	15
56	Land-sea coupling of early Pleistocene glacial cycles in the southern North Sea exhibit dominant Northern Hemisphere forcing. <i>Climate of the Past</i> , 2018, 14, 397-411.	3.4	15
57	Production of branched tetraethers in the marine realm: Svalbard fjord sediments revisited. <i>Organic Geochemistry</i> , 2019, 138, 103907.	1.8	15
58	Grain Size Associations of Branched Tetraether Lipids in Soils and Riverbank Sediments: Influence of Hydrodynamic Sorting Processes. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	14
59	Maastrichtian-Rupelian paleoclimates in the southwest Pacific – a critical re-evaluation of biomarker paleothermometry and dinoflagellate cyst paleoecology at Ocean Drilling Program Site 1172. <i>Climate of the Past</i> , 2021, 17, 2393-2425.	3.4	14
60	Constraining Instantaneous Fluxes and Integrated Compositions of Fluvially Discharged Organic Matter. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 2453-2462.	2.5	13
61	A Warm, Stratified, and Restricted Labrador Sea Across the Middle Eocene and Its Climatic Optimum. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003932.	2.9	12
62	Preferential degradation of leaf- vs. root-derived organic carbon in earthworm-affected soil. <i>Geoderma</i> , 2020, 372, 114391.	5.1	12
63	Soil pH and aridity influence distributions of branched tetraether lipids in grassland soils along an aridity transect. <i>Organic Geochemistry</i> , 2022, 164, 104347.	1.8	12
64	Late Holocene changes in vegetation and atmospheric circulation at Lake Uddelermeer (The Netherlands). <i>Quaternary Science</i> , 2018, 33, 100-111.	2.1	10
65	Seasonal and spatial variability in $\delta^{18}O$ and $\delta^2H$ values in waters of the Godavari River basin: Insights into hydrological processes. <i>Journal of Hydrology: Regional Studies</i> , 2020, 30, 100706.	2.4	7
66	Identifying marine and freshwater overprints on soil-derived branched GDGT temperature signals in Pliocene Mississippi and Amazon River fan sediments. <i>Organic Geochemistry</i> , 2021, 154, 104200.	1.8	7
67	Validation and calibration of soil $\delta^2H$ and branched GDGTs along (E-W) and strike (N-S) of the Himalayan climatic gradient. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 408-423.	3.9	6
68	Recovery from multi-millennial natural coastal hypoxia in the Stockholm Archipelago, Baltic Sea, terminated by modern human activity. <i>Limnology and Oceanography</i> , 2020, 65, 3085-3097.	3.1	6
69	Multiproxy records of temperature, precipitation and vegetation on the central Chinese Loess Plateau over the past 200,000 years. <i>Quaternary Science Reviews</i> , 2022, 288, 107579.	3.0	6
70	Synchronous vegetation response to the last glacial-interglacial transition in northwest Europe. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	6
71	Limited Lateral Transport Bias During Export of Sea Surface Temperature Proxy Carriers in the Mediterranean Sea. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	5
72	A new age model for the Pliocene of the southern North Sea basin: a multi-proxy climate reconstruction. <i>Climate of the Past</i> , 2020, 16, 523-541.	3.4	4

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73	Distinct sources of bacterial branched GMGTs in the Godavari River basin (India) and Bay of Bengal sediments. <i>Organic Geochemistry</i> , 2022, , 104405.	1.8	4
74	Compositional Characteristics of Fluvial Particulate Organic Matter Exported From the World's Largest Alpine Wetland. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 2709-2727.	3.0	3
75	Multiscale Microbial Preservation and Biogeochemical Signals in a Modern Hot-Spring Siliceous Sinter Rich in CO <sub>2</sub> Emissions, KrÁ½suvÁk Geothermal Field, Iceland. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 263.	2.0	3
76	Anoxic in situ production of bacterial GMGTs in the water column and surficial bottom sediments of a meromictic tropical crater lake: Implications for lake paleothermometry. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 306, 171-188.	3.9	3
77	Temperature, precipitation, and vegetation changes in the Eastern Mediterranean over the last deglaciation and Dansgaard-Oeschger events. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 577, 110535.	2.3	3
78	Sedimentary Branched Tetraethers in an African Lake Record 170 KYR of Tropical Temperature Change: Assessment of Calibrations. , 2021, , .		0