

Janet Rethemeyer

List of Publications by Year in descending order

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86
papers

3,948
citations

159585

30
h-index

128289

60
g-index

94
all docs

94
docs citations

94
times ranked

5378
citing authors

#	ARTICLE	IF	CITATIONS
1	How relevant is recalcitrance for the stabilization of organic matter in soils?. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 91-110.	1.9	586
2	Stabilization of dissolved organic matter by sorption to the mineral soil. <i>Soil Biology and Biochemistry</i> , 2005, 37, 1319-1331.	8.8	358
3	Selective preservation of organic matter in marine environments; processes and impact on the sedimentary record. <i>Biogeosciences</i> , 2010, 7, 483-511.	3.3	331
4	Soil organic carbon stocks in topsoil and subsoil controlled by parent material, carbon input in the rhizosphere, and microbial-derived compounds. <i>Soil Biology and Biochemistry</i> , 2018, 122, 19-30.	8.8	202
5	Climatic change recorded in the sediments of the Chew Bahir basin, southern Ethiopia, during the last 45,000 years. <i>Quaternary International</i> , 2012, 274, 25-37.	1.5	111
6	Atlantic cooling associated with a marine biotic crisis during the mid-Cretaceous period. <i>Nature Geoscience</i> , 2013, 6, 558-561.	12.9	110
7	Molecular and isotopic partitioning of low-molecular-weight hydrocarbons during migration and gas hydrate precipitation in deposits of a high-flux seepage site. <i>Chemical Geology</i> , 2010, 269, 350-363.	3.3	102
8	Controls on the age of vascular plant biomarkers in Black Sea sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 7031-7047.	3.9	101
9	Transformation of organic matter in agricultural soils: radiocarbon concentration versus soil depth. <i>Geoderma</i> , 2005, 128, 94-105.	5.1	100
10	CologneAMS, a dedicated center for accelerator mass spectrometry in Germany. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 18-23.	1.4	98
11	Storage and stability of organic matter and fossil carbon in a Luvisol and Phaeozem with continuous maize cropping: A synthesis. <i>Journal of Plant Nutrition and Soil Science</i> , 2008, 171, 36-51.	1.9	93
12	Large amounts of labile organic carbon in permafrost soils of northern Alaska. <i>Global Change Biology</i> , 2015, 21, 2804-2817.	9.5	88
13	Predictive modelling of C dynamics in the long-term fertilization experiment at Bad Lauchstädt with the Rothamsted Carbon Model. <i>European Journal of Soil Science</i> , 2007, 58, 1155-1163.	3.9	85
14	Status report on sample preparation facilities for ¹⁴ C analysis at the new CologneAMS center. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 168-172.	1.4	78
15	Organic matter composition and stabilization in a polygonal tundra soil of the Lena Delta. <i>Biogeosciences</i> , 2013, 10, 3145-3158.	3.3	73
16	Tracing the sources and spatial distribution of organic carbon in subsoils using a multi-biomarker approach. <i>Scientific Reports</i> , 2016, 6, 29478.	3.3	72
17	A Late Glacial to Holocene record of environmental change from Lake Dojran (Macedonia, Greece). <i>Climate of the Past</i> , 2013, 9, 481-498.	3.4	67
18	Complexity of Soil Organic Matter: AMS ¹⁴ C Analysis of Soil Lipid Fractions and Individual Compounds. <i>Radiocarbon</i> , 2004, 46, 465-473.	1.8	65

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19	Vegetation and environmental responses to climate forcing during the Last Glacial Maximum and deglaciation in the East Carpathians: attenuated response to maximum cooling and increased biomass burning. <i>Quaternary Science Reviews</i> , 2014, 106, 278-298.	3.0	65
20	A novel approach to process carbonate samples for radiocarbon measurements with helium carrier gas. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 294, 214-217.	1.4	63
21	Tephrostratigraphic studies on a sediment core from Lake Prespa in the Balkans. <i>Climate of the Past</i> , 2013, 9, 267-287.	3.4	49
22	Age heterogeneity of soil organic matter. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 223-224, 521-527.	1.4	44
23	Distribution of polar membrane lipids in permafrost soils and sediments of a small high Arctic catchment. <i>Organic Geochemistry</i> , 2010, 41, 1130-1145.	1.8	42
24	Holocene rainfall runoff in the central Ethiopian highlands and evolution of the River Nile drainage system as revealed from a sediment record from Lake Dendi. <i>Global and Planetary Change</i> , 2018, 163, 29-43.	3.5	42
25	Bioavailability and isotopic composition of CO ₂ released from incubated soil organic matter fractions. <i>Soil Biology and Biochemistry</i> , 2014, 69, 168-178.	8.8	41
26	First evidence of widespread active methane seepage in the Southern Ocean, off the sub-Antarctic island of South Georgia. <i>Earth and Planetary Science Letters</i> , 2014, 403, 166-177.	4.4	40
27	Holocene ice-wedge polygon development in northern Yukon permafrost peatlands (Canada). <i>Quaternary Science Reviews</i> , 2016, 147, 279-297.	3.0	39
28	Tracing elevational changes in microbial life and organic carbon sources in soils of the Atacama Desert. <i>Global and Planetary Change</i> , 2020, 184, 103078.	3.5	37
29	Early and Middle Holocene Human Occupation of the Egyptian Eastern Desert: Sodmein Cave. <i>African Archaeological Review</i> , 2015, 32, 465-503.	1.4	36
30	Yedoma Ice Complex of the Buor Khaya Peninsula (southern Laptev Sea). <i>Biogeosciences</i> , 2017, 14, 1261-1283.	3.3	33
31	Possible earthquake trigger for 6th century mass wasting deposit at Lake Ohrid (Macedonia/Albania). <i>Climate of the Past</i> , 2012, 8, 2069-2078.	3.4	32
32	Impact of global cooling on Early Cretaceous high pCO ₂ world during the Weissert Event. <i>Nature Communications</i> , 2021, 12, 5411.	12.8	32
33	Incipient silicification of recent conifer wood at a Yellowstone hot spring. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 149, 79-87.	3.9	31
34	Depositional modes and lake-level variability at Lake Towuti, Indonesia, during the past ~29 kyr BP. <i>Journal of Paleolimnology</i> , 2015, 54, 359-377.	1.6	28
35	Ultrafiltration of Bone Samples is Neither the Problem nor the Solution. <i>Radiocarbon</i> , 2013, 55, 491-500.	1.8	27
36	Organic geochemical and palynological evidence for Holocene natural and anthropogenic environmental change at Lake Dojran (Macedonia/Greece). <i>Holocene</i> , 2017, 27, 1103-1114.	1.7	26

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37	Environmental change during MIS4 and MIS 3 opened corridors in the Horn of Africa for Homo sapiens expansion. <i>Quaternary Science Reviews</i> , 2018, 202, 139-153.	3.0	23
38	Current Sample Preparation and Analytical Capabilities of the Radiocarbon Laboratory at CologneAMS. <i>Radiocarbon</i> , 2019, 61, 1449-1460.	1.8	23
39	Compound-specific radiocarbon analysis – Analytical challenges and applications. <i>IOP Conference Series: Earth and Environmental Science</i> , 2009, 5, 012006.	0.3	20
40	Disentangling abrupt deglacial hydrological changes in northern South America: Insolation versus oceanic forcing. <i>Geology</i> , 2014, 42, 579-582.	4.4	20
41	Influence of land use on distribution of soil n-alkane δD and $\delta^{13}C$ GDGTs along an altitudinal transect in Ethiopia: Implications for (paleo)environmental studies. <i>Organic Geochemistry</i> , 2018, 124, 77-87.	1.8	18
42	Northeast Siberian Permafrost Ice-Wedge Stable Isotopes Depict Pronounced Last Glacial Maximum Winter Cooling. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092087.	4.0	17
43	Carbon Dioxide and Methane Release Following Abrupt Thaw of Pleistocene Permafrost Deposits in Arctic Siberia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	3.0	17
44	Characterisation of bacterial populations in Arctic permafrost soils using bacteriohopanepolyols. <i>Organic Geochemistry</i> , 2015, 88, 1-16.	1.8	16
45	Variation in $\delta^{15}N$ of fog-dependent Tillandsia ecosystems reflect water availability across climate gradients in the hyperarid Atacama Desert. <i>Global and Planetary Change</i> , 2019, 183, 103029.	3.5	16
46	Combination of energy limitation and sorption capacity explains ^{14}C depth gradients. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107912.	8.8	16
47	Chronological Assessment of the Balta Alba Kurgan Loess-Paleosol Section (Romania) – A Comparative Study on Different Dating Methods for a Robust and Precise Age Model. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	16
48	Industrial carbon input to arable soil since 1958. <i>Organic Geochemistry</i> , 2015, 80, 46-52.	1.8	15
49	Climatic, geomorphologic and hydrologic perturbations as drivers for mid- to late Holocene development of ice-wedge polygons in the western Canadian Arctic. <i>Permafrost and Periglacial Processes</i> , 2018, 29, 164-181.	3.4	15
50	Glycerol dialkyl glycerol tetraethers (GDGTs) in high latitude Siberian permafrost: Diversity, environmental controls, and implications for proxy applications. <i>Organic Geochemistry</i> , 2019, 136, 103888.	1.8	15
51	Evaluation of Soil ^{14}C Data for Estimating Inert Organic Matter in the Rothc Model. <i>Radiocarbon</i> , 2007, 49, 1079-1091.	1.8	13
52	The first year of operation of CologneAMS; performance and developments. <i>EPJ Web of Conferences</i> , 2013, 63, 03006.	0.3	11
53	Radiocarbon measurements of small gaseous samples at CologneAMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 283-286.	1.4	11
54	The rock shelter Abrigo del Molino (Segovia, Spain) and the timing of the late Middle Paleolithic in Central Iberia. <i>Quaternary Research</i> , 2018, 90, 180-200.	1.7	11

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55	Rock surface IRSL dating of buried cobbles from an alpine dry-stone structure in Val di Sole, Italy. <i>Quaternary Geochronology</i> , 2021, 66, 101212.	1.4	11
56	Vertical partitioning of CO ₂ production in a forest soil. <i>Biogeosciences</i> , 2020, 17, 6341-6356.	3.3	11
57	Differences in organic matter properties and microbial activity between bulk and rhizosphere soil from the top- and subsoils of three forest stands. <i>Geoderma</i> , 2022, 409, 115589.	5.1	11
58	Holocene environmental history in high-Arctic North Greenland revealed by a combined biomarker and macrofossil approach. <i>Boreas</i> , 2019, 48, 273-286.	2.4	10
59	Holocene glacier fluctuations and environmental changes in subantarctic South Georgia inferred from a sediment record from a coastal inlet. <i>Quaternary Research</i> , 2019, 91, 132-148.	1.7	10
60	Method developments for accelerator mass spectrometry at CologneAMS, ⁵³ Mn/ ³ He burial dating and ultra-small ¹⁴ CO ₂ samples. <i>Global and Planetary Change</i> , 2020, 184, 103053.	3.5	10
61	¹⁴ CO ₂ processing using an improved and robust molecular sieve cartridge. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 400, 65-73.	1.4	9
62	Improvements in the measurement of small ¹⁴ CO ₂ samples at CologneAMS. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 439, 70-75.	1.4	9
63	Holocene Hydroclimate Variability and Vegetation Response in the Ethiopian Highlands (Lake Dendi). <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	9
64	Factors influencing ¹⁴ C concentrations of algal and archaeal lipids and their associated sea surface temperature proxies in the Black Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 35-57.	3.9	8
65	Compound-specific Radiocarbon Analysis of (Sub-Antarctic Coastal Marine Sediments) Potential and Challenges for Chronologies. <i>Paleoceanography and Paleoclimatology</i> , 2020, 35, e2020PA003890.	2.9	8
66	Geogenic organic carbon in terrestrial sediments and its contribution to total soil carbon. <i>Soil</i> , 2021, 7, 347-362.	4.9	7
67	Increased petrogenic and biospheric organic carbon burial in sub-Antarctic fjord sediments in response to recent glacier retreat. <i>Limnology and Oceanography</i> , 2021, 66, 4347-4362.	3.1	7
68	¹⁴ CO ₂ analysis of soil gas: Evaluation of sample size limits and sampling devices. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 413, 51-56.	1.4	6
69	Roman traces in Germania magna: New thermoluminescence and pIRIR ₂₉₀ data from a lime kiln at Bergisch Gladbach, Germany. <i>Archaeometry</i> , 2019, 61, 506-518.	1.3	6
70	Carbon isotope and sequence stratigraphy of the upper Isachsen Formation on Axel Heiberg Island (Nunavut, Canada): High Arctic expression of oceanic anoxic event 1a in a deltaic environment. , 2021, 17, 501-519.		6
71	Driving mechanisms of organic carbon burial in the Early Cretaceous South Atlantic Cape Basin (DSDP Tj ETQq1 1 0.784314 gBT /Over	3.4	6
72	Permafrost Organic Carbon Turnover and Export Into a High-Arctic Fjord: A Case Study From Svalbard Using Compound-specific ¹⁴ C Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006008.	3.0	6

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73	Leaf wax composition and distribution of <i>Tillandsia landbeckii</i> reflects moisture gradient across the hyperarid Atacama Desert. <i>Plant Systematics and Evolution</i> , 2022, 308, 1.	0.9	6
74	Testing feldspar and quartz luminescence dating of sandy loess sediments from the Doroshivtsy site (Ukraine) against radiocarbon dating. <i>Quaternary International</i> , 2017, 432, 13-19.	1.5	5
75	Exploring sample size limits of AMS gas Ion Source ¹⁴ C analysis at Cologneams. <i>Radiocarbon</i> , 2019, 61, 1785-1793.	1.8	5
76	Neoglacial transition of atmospheric circulation patterns over Fennoscandia recorded in Holocene Lake TornetrÅsk sediments. <i>Boreas</i> , 2019, 48, 287-298.	2.4	5
77	Late Holocene Precipitation Fluctuations in South America Triggered by Variability of the North Atlantic Overturning Circulation. <i>Paleoceanography and Paleoclimatology</i> , 2021, 36, e2021PA004223.	2.9	5
78	Towards a revised stratigraphy for the Middle to Upper Palaeolithic boundary at La GÅ¼elga (Narciandi,) Tj ETQq0 0 0 rgBT /Overlock 10 1129, 183-206.	0.1	5
79	Sources of CO ₂ Produced in Freshly Thawed Pleistocene-Age Yedoma Permafrost. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	5
80	Tracing life at the dry limit using phospholipid fatty acids â€œ does sampling matter?. <i>Soil Biology and Biochemistry</i> , 2020, 141, 107661.	8.8	4
81	New investigations at the Middle Stone Age site of Pockenbank Rockshelter, Namibia. <i>Antiquity</i> , 2016, 90, .	1.0	3
82	Lateglacial and Holocene palaeoenvironments on Bolshevik Island (Severnaya Zemlya), Russian High Arctic. <i>Boreas</i> , 2020, 49, 375-388.	2.4	3
83	DO RADIOCARBON AGES OF PLANT WAX BIOMARKERS AGREE WITH ¹⁴ C-TOC/OSL-BASED AGE MODELS IN AN ARID HIGH-ALTITUDE LAKE SYSTEM?. <i>Radiocarbon</i> , 2021, 63, 1575-1590.	1.8	3
84	A 62â€‰‰kyr geomagnetic palaeointensity record from the Taymyr Peninsula, Russian Arctic. <i>Geochronology</i> , 2022, 4, 87-107.	2.5	2
85	Ultrafiltration of Bone Samples is Neither the Problem nor the Solution. <i>Radiocarbon</i> , 2013, 55, .	1.8	1
86	Coupled Oceanic and Atmospheric Controls of Deglacial Southeastern South America Precipitation and Western South Atlantic Productivity. <i>Frontiers in Marine Science</i> , 0, 9, .	2.5	1