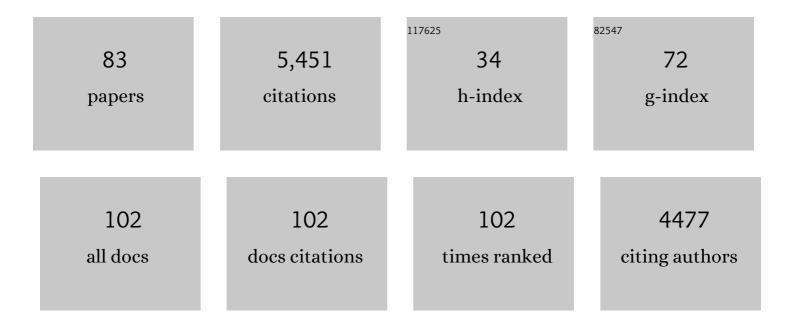
## **Dirk Sachse**

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Molecular Paleohydrology: Interpreting the Hydrogen-Isotopic Composition of Lipid Biomarkers from Photosynthesizing Organisms. Annual Review of Earth and Planetary Sciences, 2012, 40, 221-249.	11.0	748
2	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
3	Hydrogen isotope ratios of recent lacustrine sedimentary n-alkanes record modern climate variability. Geochimica Et Cosmochimica Acta, 2004, 68, 4877-4889.	3.9	407
4	Southward movement of the Pacific intertropical convergence zone AD 1400–1850. Nature Geoscience, 2009, 2, 519-525.	12.9	351
5	Prolonged monsoon droughts and links to Indo-Pacific warm pool: A Holocene record from Lonar Lake, central India. Earth and Planetary Science Letters, 2014, 391, 171-182.	4.4	204
6	Leaf water deuterium enrichment shapes leaf wax n-alkane ÎƊ values of angiosperm plants I: Experimental evidence and mechanistic insights. Geochimica Et Cosmochimica Acta, 2013, 111, 39-49.	3.9	194
7	Leaf water deuterium enrichment shapes leaf wax n-alkane ÎƊ values of angiosperm plants II: Observational evidence and global implications. Geochimica Et Cosmochimica Acta, 2013, 111, 50-63.	3.9	188
8	Delayed hydrological response to Greenland cooling at the onset of the Younger Dryas in western Europe. Nature Geoscience, 2014, 7, 109-112.	12.9	159
9	Cellulose δ <sup>18</sup> O is an index of leaf-to-air vapor pressure difference (VPD) in tropical plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 1981-1986.	7.1	148
10	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
11	Effect of lake evaporation on ÎƊ values of lacustrine n-alkanes: A comparison of Nam Co (Tibetan) Tj ETQq1 1 0.7	′84314 rg 1.8	BT/Qverlock
12	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
13	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
14	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
15	Abundance and distribution of leaf wax n-alkanes in leaves of Acacia and Eucalyptus trees along a strong humidity gradient in northern Australia. Organic Geochemistry, 2013, 62, 62-67.	1.8	106
16	Leaf wax <i>n</i> â€alkane <i>δ</i> D values are determined early in the ontogeny of <i>Populus trichocarpa</i> leaves when grown under controlled environmental conditions. Plant, Cell and Environment, 2011, 34, 1639-1651.	5.7	93
17	Monsoon source shifts during the drying mid-Holocene: Biomarker isotope based evidence from the core â€~monsoon zone' (CMZ) of India. Quaternary Science Reviews, 2015, 123, 144-157.	3.0	93
18	Compound-specific l´13C and l´2H 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

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19	Inverse relationship between D/H fractionation in cyanobacterial lipids and salinity in Christmas Island saline ponds. Geochimica Et Cosmochimica Acta, 2008, 72, 793-806.	3.9	85
20	Early anthropogenic impact on Western Central African rainforests 2,600 y ago. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3261-3266.	7.1	83
21	Can stable isotopes ride out the storms? The role of convection for water isotopes in models, records, and paleoaltimetry studies in the central Andes. Earth and Planetary Science Letters, 2014, 407, 187-195.	4.4	72
22	Correlation between hydrogen isotope ratios of lipid biomarkers and sediment maturity. Geochimica Et Cosmochimica Acta, 2005, 69, 5517-5530.	3.9	64
23	Effect of aridity on δ13 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
24	Miocene orographic uplift forces rapid hydrological change in the southern central Andes. Scientific Reports, 2016, 6, 35678.	3.3	54
25	Influence of water availability in the distributions of branched glycerol dialkyl glycerol tetraether in soils of the Iberian Peninsula. Biogeosciences, 2014, 11, 2571-2581.	3.3	53
26	Hydrogen isotope ratios of terrigenous n-alkanes in lacustrine surface sediment of the Tibetan Plateau record the precipitation signal. Geochemical Journal, 2008, 42, 331-338.	1.0	50
27	Effects of leaf water evaporative <sup>2</sup> Hâ€enrichment and biosynthetic fractionation on leaf wax <i>n</i> â€alkane δ <sup>2</sup> H values in C3 and C4 grasses. Plant, Cell and Environment, 2016, 39, 2390-2403.	5.7	50
28	A dual-biomarker approach for quantification of changes in relative humidity from sedimentary lipid <i>D</i> â^• <i>H</i> ratios. Climate of the Past, 2017, 13, 741-757.	3.4	49
29	A hypersaline microbial mat from the Pacific Atoll Kiritimati: insights into composition and carbon fixation using biomarker analyses and a <sup>13</sup> Câ€labeling approach. Geobiology, 2009, 7, 308-323.	2.4	47
30	Millennial-scale cyclical environment and climate variability during the Holocene in the western Mediterranean region deduced from a new multi-proxy analysis from the Padul record (Sierra Nevada,) Tj ETQqO	0 Osr <b>g</b> BT /C	Dvendock 10 T
31	Understanding erosion rates in the Himalayan orogen: A case study from the Arun Valley. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2080-2102.	2.8	39
32	Fluvial organic carbon cycling regulated by sediment transit time and mineral protection. Nature Geoscience, 2021, 14, 842-848.	12.9	39
33	Seasonal variation of leaf wax <i>n</i> -alkane production and δ <sup>2</sup> H values from the evergreen oak tree, <i>Quercus agrifolia</i> . Isotopes in Environmental and Health Studies, 2015, 51, 124-142.	1.0	37
34	Lateral variations in vegetation in the Himalaya since the Miocene and implications for climate evolution. Earth and Planetary Science Letters, 2017, 471, 1-9.	4.4	36
35	Lipid biomarker signatures in a hypersaline lake on Isabel Island (Eastern Pacific) as a proxy for past rainfall anomaly (1942–2006 AD). Palaeogeography, Palaeoclimatology, Palaeoecology, 2012, 350-352, 49-61.	2.3	35
36	Spatial heterogeneity in lipid biomarker distributions in the catchment and sediments of a crater lake in central India. Organic Geochemistry, 2014, 66, 125-136.	1.8	35

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37	Biosynthetic hydrogen isotopic fractionation factors during lipid synthesis in submerged aquatic macrophytes: Effect of groundwater discharge and salinity. Organic Geochemistry, 2017, 113, 10-16.	1.8	31
38	Hydroclimate in the Pamirs Was Driven by Changes in Precipitationâ€Evaporation Seasonality Since the Last Glacial Period. Geophysical Research Letters, 2019, 46, 13972-13983.	4.0	31
39	Elevation-dependent changes in n -alkane l̂´D and soil GDGTs across the South Central Andes. Earth and Planetary Science Letters, 2016, 453, 234-242.	4.4	29
40	Oxygen isotope ratios of sedimentary biogenic silica reflect the European transcontinental climate gradient. Journal of Quaternary Science, 2008, 23, 341-350.	2.1	27
41	Preservation of organic carbon during active fluvial transport and particle abrasion. Geology, 2019, 47, 958-962.	4.4	25
42	Sources and abundances of leaf waxes in aerosols in central Europe. Geochimica Et Cosmochimica Acta, 2017, 198, 299-314.	3.9	24
43	The fate of fluvially-deposited organic carbon during transient floodplain storage. Earth and Planetary Science Letters, 2021, 561, 116822.	4.4	23
44	The Lateglacial to early Holocene tephrochronological record from Lake HÃ <b>¤</b> nelsee, Germany: a key site within the European tephra framework. Boreas, 2018, 47, 28-40.	2.4	22
45	Sediment Transit Time and Floodplain Storage Dynamics in Alluvial Rivers Revealed by Meteoric <sup>10</sup> Be. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005419.	2.8	22
46	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
47	Vegetation Dynamics at the Upper Reaches of a Tropical Montane Forest are Driven by Disturbance Over the Past 7300 Years. Arctic, Antarctic, and Alpine Research, 2014, 46, 787-799.	1.1	20
48	Leaf wax <i>n</i> -alkane distributions record ecological changes during the Younger Dryas at Trzechowskie paleolake (northern Poland) without temporal delay. Climate of the Past, 2018, 14, 1607-1624.	3.4	20
49	Paleohydrological dynamics in the Western Mediterranean during the last glacial cycle. Global and Planetary Change, 2021, 202, 103527.	3.5	19
50	The Effect of Biodiversity on Carbon Storage in Soils. , 2005, , 165-183.		18
51	Climatic and geomorphic drivers of plant organic matter transport in the Arun River, E Nepal. Earth and Planetary Science Letters, 2016, 452, 104-114.	4.4	18
52	A deglaciation and Holocene biomarker-based reconstruction of climate and environmental variability in NW Iberian Peninsula: the Sanabria Lake sequence. Journal of Paleolimnology, 2016, 56, 49-66.	1.6	17
53	Variations in organic carbon sourcing along a trans-Himalayan river determined by a Bayesian mixing approach. Geochimica Et Cosmochimica Acta, 2020, 286, 159-176.	3.9	17
54	Hydrological and ecological changes in western Europe between 3200 and 2000 years BP derived from lipid biomarker ÎƊ values in lake Meerfelder Maar sediments. Quaternary Science Reviews, 2017, 172, 44-54.	3.0	16

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55	An automated solid phase extraction procedure for lipid biomarker purification and stable isotope analysis. Organic Geochemistry, 2020, 142, 103995.	1.8	16
56	Modern pollen vegetation relationships in a dry deciduous monsoon forest: A case study from Lonar Crater Lake, central India. Quaternary International, 2015, 371, 268-279.	1.5	15
57	Centennial-scale lake-level lowstand at Lake Uddelermeer (The Netherlands) indicates changes in moisture source region prior to the 2.8-kyr event. Holocene, 2016, 26, 1075-1091.	1.7	15
58	Monsoon forced evolution of savanna and the spread of agro-pastoralism in peninsular India. Scientific Reports, 2021, 11, 9032.	3.3	15
59	Subdecadalâ€scale vegetation responses to a previously unknown lateâ€AllerÃ,d climate fluctuation and Younger Dryas cooling at Lake Meerfelder Maar (Germany). Journal of Quaternary Science, 2016, 31, 741-752.	2.1	14
60	Carbon Allocation in Rhodococcus jostii RHA1 in Response to Disruption and Overexpression of nlpR Regulatory Gene, Based on 13C-labeling Analysis. Frontiers in Microbiology, 2017, 8, 1992.	3.5	14
61	Prolonged Monsoonal Moisture Availability Preconditioned Glaciation of the Tibetan Plateau During the Midâ€Pleistocene Transition. Geophysical Research Letters, 2018, 45, 13,020.	4.0	14
62	Relationships between low-temperature fires, climate and vegetation during three late glacials and interglacials of the last 430 kyr in northeastern Siberia reconstructed from monosaccharide anhydrides in Lake El'gygytgyn sediments. Climate of the Past, 2020, 16, 799-818.	3.4	14
63	Growth-dependent hydrogen isotopic fractionation of algal lipid biomarkers in hypersaline Isabel Lake (México). Geochimica Et Cosmochimica Acta, 2013, 106, 490-500.	3.9	13
64	Comparisons of lipid molecular and carbon isotopic compositions in two particle-size fractions from surface peat and their implications for lipid preservation. Environmental Earth Sciences, 2016, 75, 1.	2.7	10
65	Late Holocene changes in vegetation and atmospheric circulation at Lake Uddelermeer (The) Tj ETQq1 1 0.78431 Quaternary Science, 2018, 33, 100-111.	4 rgBT /O <sup>v</sup> 2.1	verlock 10 10
66	Late Holocene Landscape Collapse of a Transâ€Himalayan Dryland: Human Impact and Aridification. Geophysical Research Letters, 2019, 46, 13814-13824.	4.0	10
67	Fluvial Organic Carbon Composition Regulated by Seasonal Variability in Lowland River Migration and Water Discharge. Geophysical Research Letters, 2021, 48, .	4.0	10
68	The effect of Indian Summer Monsoon rainfall on surface water ÎƊ values in the central Himalaya. Hydrological Processes, 2018, 32, 3662-3674.	2.6	9
69	River Organic Carbon Fluxes Modulated by Hydrodynamic Sorting of Particulate Organic Matter. Geophysical Research Letters, 2022, 49, .	4.0	9
70	Paleoclimate reconstruction of the last 36 kyr based on branched glycerol dialkyl glycerol tetraethers in the Padul palaeolake record (Sierra Nevada, southern Iberian Peninsula). Quaternary Science Reviews, 2022, 281, 107434.	3.0	9
71	Molecular Paleoclimate Reconstructions over the Last 9 ka from a Peat Sequence in South China. PLoS ONE, 2016, 11, e0160934.	2.5	8
72	Dinosterol ÎƊ values in stratified tropical lakes (Cameroon) are affected by eutrophication. Organic Geochemistry, 2015, 88, 35-49.	1.8	7

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73	Validation and calibration of soil δ2H and brGDGTs along (E-W) and strike (N-S) of the Himalayan climatic gradient. Geochimica Et Cosmochimica Acta, 2020, 290, 408-423.	3.9	6
74	Last millennium hydroclimate in the central equatorial North Pacific (5°N, 160°W). Quaternary Science Reviews, 2021, 259, 106906.	3.0	6
75	Asynchronous responses of aquatic ecosystems to hydroclimatic forcing on the Tibetan Plateau. Communications Earth & Environment, 2022, 3, .	6.8	5
76	Variation of deuterium excess in surface waters across a 5000-m elevation gradient in eastern Nepal. Journal of Hydrology, 2020, 586, 124802.	5.4	4
77	Holocene evolution of a proglacial lake in southern Kamchatka, Russian Far East. Boreas, 2021, 50, 1011.	2.4	4
78	Reply to Giresse et al.: No evidence for climate variability during the late Holocene rainforest crisis in Western Central Africa. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E6674-E6675.	7.1	3
79	Reply to Clist et al.: Human activity is the most probable trigger of the late Holocene rainforest crisis in Western Central Africa. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4735-E4736.	7.1	3
80	Compound-specific δ2H and δ13C values of n-alkanes as a tool to unravel complex petroleum mixtures in the South Viking Graben, Norway. Organic Geochemistry, 2021, 152, 104167.	1.8	3
81	DO RADIOCARBON AGES OF PLANT WAX BIOMARKERS AGREE WITH <sup>14</sup> C-TOC/OSL-BASED AGE MODELS IN AN ARID HIGH-ALTITUDE LAKE SYSTEM?. Radiocarbon, 2021, 63, 1575-1590.	1.8	3
82	Indigenous impacts on north Australian savanna fire regimes over the Holocene. Scientific Reports, 2021, 11, 23157.	3.3	3
83	Local effects on soil leaf wax hydrogen isotopes along a west to east transect through the Pamirs, Taiikistan. Organic Geochemistry, 2021, 160, 104272.	1.8	1